American Urological Association Guideline: Management of Benign Prostatic Hyperplasia (BPH)

Revised, 2010

Panel Members:

Kevin T. McVary, MD (Chair)
Claus G. Roehrborn, MD (Co-Chair)

Andrew L. Avins, MD, MPH
Michael J. Barry, MD
Reginald C. Bruskewitz, MD
Robert F. Donnell, MD
Harris E. Foster, Jr., MD
Chris M. Gonzalez, MD
Steven A. Kaplan, MD
David F. Penson, MD
James C. Ulchaker, MD
John T. Wei, MD

Consultants:

Susan Norris, MD, MPH, MSc
Suzanne Pope, MBA
Natalie Jacuzzi, MPH
Tarra McNally, MA, MPH
Veronica Ivey
Ben Chan, MS
Diann Glickman, PharmD

AUA Staff:

Heddy Hubbard, PhD, MPH, FAAN
Cynthia Janus, MLS
Marni Zuckerman, MA
Michael Folmer
Kadiatu Kebe

American Urological Association
Education and Research, Inc.

Chapter 1: Guideline on the Management of Benign Prostatic Hyperplasia (BPH)

Table of Contents

Introduction

Benign prostatic hyperplasia (BPH) is a histologic diagnosis that refers to the proliferation of smooth muscle and epithelial cells within the prostatic transition zone.[1, 2] The exact etiology is unknown; however, the similarity between BPH and the embryonic morphogenesis of the prostate has led to the hypothesis that BPH may result from a "reawakening" in adulthood of embryonic induction processes. The enlarged gland has been proposed to contribute to the overall lower urinary tract symptoms (LUTS) complex via at least two routes: (1) direct bladder outlet obstruction (BOO) from enlarged tissue (static component) and (2) from increased smooth muscle tone and resistance within the enlarged gland (dynamic component). Voiding symptoms have often been attributed to the physical presence of BOO. Detrusor overactivity is thought to be a contributor to the storage symptoms seen in LUTS.[3] This Guideline attempts to globally encompass the concept of LUTS in a broad spectrum of etiologies, and focuses treatment (e.g., active surveillance, medical and surgical) on the management of such symptoms.

The prevalence and the severity of LUTS in the aging male can be progressive, and is an important diagnosis in the healthcare of our patients and the welfare of society. In assessing the burden of disease, the Urologic Diseases in America BPH Project examined the prevalence of moderate-to-severe LUTS reported in U.S. population-based studies that used the definition of an American Urological Association (AUA) Symptom Index (SI) score of ≥7.[4] Results from the Olmsted County Study showed a progressive increase in the prevalence of moderate-to-severe LUTS, rising to nearly 50% by the eighth decade of life. The presence of moderate-to-severe LUTS was also associated with the development of acute urinary retention (AUR) as a symptom of BPH progression, increasing from a prevalence of 6.8 episodes per 1000 patient years of follow-up in the overall population to a high of 34.7 episodes in men aged 70 and older with moderate to severe LUTS. Another study has estimated that 90% of men between 45 and 80 years of age suffer some type of LUTS.[5]

Although LUTS secondary to BPH (LUTS/BPH) is not often a life-threatening condition, the impact of LUTS/BPH on quality of life (QoL) can be significant and should not be underestimated.[4] When the effect of BPH-associated LUTS on QoL was studied in a number of community-based populations, for many, the most important motivations for seeking treatment were the severity and the degree of bother associated with the symptoms. These were also important considerations when assessing BPH and deciding when treatment is indicated.[6]

Traditionally, the primary goal of treatment has been to alleviate bothersome LUTS that result from prostatic enlargement. More recently, treatment has additionally been focused on the alteration of disease progression and prevention of complications that can be associated with BPH/LUTS.[7] A variety of pharmacologic classes are employed including alpha-adrenergic antagonists (alpha-blockers), 5-alpha-reductase inhibitors (5-ARIs), anticholinergics and phytotherapeutics. Choosing the correct medical treatment for BPH is truly complex and ever-changing.

In the management of bothersome LUTS, it is important as healthcare providers that we recognize the complex dynamics of the bladder, bladder neck, prostate and urethra, and that symptoms may result from interactions of these organs as well as with the central nervous system. It is the hope that this revised clinical Guideline will provide a useful reference on the effective evidence-based management of male LUTS secondary to BPH. This 2010 Guideline reviews a number of important

aspects in the management of LUTS presumed secondary to BPH including available diagnostic tests to identify the underlying pathophysiology and to assist in symptom management. Pharmacotherapies--including complementary and alternative medications (CAM) and watchful waiting, as well as lifestyle issues-- are addressed. The current literature on the standard surgical options as well as on minimally invasive procedures was similarly reviewed. Despite the rigorous methodology and detail used in these various areas, supporting high-quality data (i.e., randomized controlled trials) could not be identified for some topics. In these situations, the Panel, not surprisingly, was forced to suggest best practices based on expert opinion.

In more recent years, the association between LUTS and erectile dysfunction (ED) has been clarified. Lifestyle factors – such as exercise, weight gain and obesity –appear to have an impact on LUTS. We expect these concerns to grow in importance with the aging of our nation and the obesity epidemic. Because prevalence of LUTS increases with age, the burden and number of men complaining of LUTS will rise with the increasing life expectancy and growth of our elderly population. This will place increased demands for treatment services, and necessitate the incorporation of evidence-based medicine in treatment therein.

Definitions and Terminology

For this Guideline, the **Index Patient** is a male aged 45 or older who is consulting a qualified healthcare provider for his LUTS. He does not have a history suggesting non-BPH causes of LUTS and his LUTS may or may not be associated with an enlarged prostate gland, BOO, or histological BPH. Although the Index Patient defined in the 2003 Guideline was aged 50 or older, the Panel has lowered the age for inclusion in this Guideline, as this lower age group can present with LUTS.

LUTS include storage and/or voiding disturbances common in aging men. Storage symptoms are experienced during the storage phase of the bladder and include daytime frequency and nocturia; voiding symptoms are experienced during the voiding phase. LUTS may be due to structural or functional abnormalities in one or more parts of the lower urinary tract that comprises the bladder, bladder neck, prostate, distal sphincter mechanism, and urethra. Of note, LUTS may result from abnormalities of the peripheral and/or central nervous systems that provide neural control to the lower urinary tract. LUTS may also be secondary to cardiovascular, respiratory or renal dysfunction or disease. Thus, this disease entity is particularly complex to evaluate, survey and treat. In men, enlargement of the prostate gland from hyperplasia can cause BOO and be a major cause of LUTS or mimicked by other issues, such as infection, malignancy, central-peripheral neurologic disease or overactivity/hypoactivity of detrusor muscles.

In the past, a number of terms have been used to describe these LUTS in the male. These have varied from BPH, clinical BPH, BOO, prostate enlargement, or prostatism. It is becoming widely accepted that the symptoms we relate in many older males may not have an etiology in prostate enlargement. For that reason, the term "**LUTS independent of BPH"** has been introduced and is gaining worldwide acceptance. Regardless, the concept of **LUTS secondary to BPH (LUTS/BPH)** is meaningful to clinicians. Less frequently, LUTS/BPH has been associated with other comorbidities including AUR, renal insufficiency, and the development of gross hematuria, bladder calculi, urinary incontinence and recurrent urinary tract infection (UTI).[8, 9]

The **overactive bladder syndrome** is defined as urgency with or without urge incontinence, usually with frequency and nocturia.

Detrusor overactivity is a urodynamic observation characterized by involuntary detrusor contractions during the filling phase. These contractions may be spontaneous or provoked.

The term **"benign prostatic hyperplasia"** is reserved for the histological pattern it describes. **Benign prostatic enlargement** is used when there is gland enlargement and is usually a presumptive diagnosis based on the size of the prostate. **Benign prostatic obstruction (BPO)** is used when obstruction has been proven by pressure flow studies, or is highly suspected from flow rates and if the gland is enlarged. **Bladder outlet obstruction (BOO)** is the generic term for all forms of obstruction to the bladder outlet (e.g., urethral stricture) including BPO.

The AUA-SI and the International Prostate Symptom Score (I-PSS) (Appendix A6)[10, 11] are nearly identical, validated short, self-administered questionnaires, used to assess the severity of three storage symptoms (frequency, nocturia, urgency) and four voiding symptoms (feeling of incomplete emptying, intermittency, straining, and a weak stream). The I-PSS also assesses the degree of bother associated with the seven symptoms in the aforementioned symptom severity score with one additional QoL question: "If you were to spend the rest of your life with your urinary condition just the way it is now, how would you feel about that?" A three-point improvement in the AUA-SI is considered meaningful. For consistency in this Guideline, the term "AUA-SI" will be used when discussing the tools unless specifically differentiated in a study being cited. The **BPH Impact Index (BII)** (Appendix A5) is a questionnaire that assesses the effect of symptoms on everyday life and their interference with daily activities, thus capturing the impact of the condition. This questionnaire can be administered in conjunction with the AUA-SI and provides useful additional information to the single QoL question.

This Guideline does not apply when other disease pathologies are known to be responsible for LUTS, such as prostate cancer or other genitourinary tract malignancies, or when LUTS are due to significant comorbidities (e.g., severe diabetes mellitus or neurologic disease), concomitant medications, UTIs, prior pelvic surgery, or trauma. In addition to being responsible for the symptoms, these excluded clinical scenarios, diseases and/or conditions may affect treatment in a manner outside the purview of this Guideline.

Methodology

The clinical guideline statements presented in this document were based on a systematic review and synthesis of the clinical literature on current and emerging therapies for the treatment of BPH. The methodology followed the same process used in the development of the 2003 Guideline and, as such, did not include an evaluation of the strength of the body of evidence as will be instituted in future Guidelines produced by the AUA. The full description of the methodology presented in Chapter 2 can be accessed at http://www.auanet.org/content/guidelines-and-quality-care/clinical-guidelines.cfm.

The expert Panel examined three overarching key questions for pharmacotherapeutic, surgical and alternative medicine therapies: (1) What is the comparative efficacy (the extent to which an intervention produces a beneficial result under ideal conditions such as clinical trials) and effectiveness (the extent to which an intervention in ordinary conditions produces the intended result) of currently available and emerging treatments for BPH? What are the predictors of beneficial effects from

treatments? (2) What are the adverse events associated with each of the included treatments, and how do the adverse events compare across treatments? (3) Are there subpopulations in which the efficacy, effectiveness, and adverse event rates vary from those in general populations?

The guideline statements were drafted by the Panel based on the outcomes data and tempered by the Panel's expert opinion. As in the previous Guideline, statements were graded using three levels with respect to the degree of flexibility in their application. A "standard" has the least flexibility as a treatment policy; a "recommendation" has significantly more flexibility; and an "option" is even more flexible. These three levels of flexibility are defined as follows:

1. **Standard**: A guideline statement is a standard if: (1) the health outcomes of the alternative interventions are sufficiently well known to permit meaningful decisions and (2) there is virtual unanimity about which intervention is preferred.
2. **Recommendation**: A guideline statement is a recommendation if: (1) the health outcomes of the alternative intervention are sufficiently well known to permit meaningful decisions, and (2) an appreciable but not unanimous majority agrees on which intervention is preferred.
3. **Option**: A guideline statement is an option if: (1) the health outcomes of the interventions are not sufficiently well known to permit meaningful decisions, or (2) preferences are unknown or equivocal. Options can exist because of insufficient evidence or because patient preferences are divided and may/should influence choices made.

The guideline was examined by 69 peer reviewers, and approved by the Practice Guidelines Committee and the Board of Directors of the AUA. The Guideline is published on the AUA website (http://www.auanet.org). A summary version of the Guideline will be published in *The Journal of Urology.*

Diagnostic Evaluation

The Panel decided that the diagnostic section of the 2003 Guideline required updating. After review of the recommendations for diagnosis published by the 2005 International Consultation of Urologic Diseases[12] and reiterated in 2009 in an article by Abrams et al (2009), the Panel unanimously agreed that the contents were valid and reflected "best practices". [13] The diagnostic guidelines by Abrams et al (2009) are revisited in Appendix A7. [13] Two treatment algorithms, one on the basic management of LUTS in men and one on the detailed management for persistent bothersome LUTS— were adapted for this Guideline and are included in Appendix A1 as Figures 1.1 and 1.2, respectively. [13]

Basic Management

The algorithm describing basic management of BPH/LUTS classifies diagnostic tests as either recommended or optional. A "recommended test" should be performed on every patient during the initial evaluation whereas an "optional test" is a test of proven value in the evaluation of select patients. In general, optional tests are performed during a detailed evaluation by a urologist.

If the initial evaluation demonstrates the presence of LUTS associated with results of a digital rectal exam (DRE) suggesting prostate cancer, hematuria, abnormal prostate-specific antigen (PSA)

levels, recurrent infection, palpable bladder, history/risk of urethral stricture, and/or a neurological disease raising the likelihood of a primary bladder disorder, the patient should be referred to a urologist for appropriate evaluation before advising treatment (Figure 1.1 in Appendix A7). Baseline renal insufficiency appears to be no more common in men with BPH than in men of the same age group in the general population.

Not Recommended: The routine measurement of serum creatinine levels is not indicated in the initial evaluation of men with LUTS secondary to BPH. [Based on review of the data and Panel consensus.]

When initial evaluation demonstrates the presence of LUTS only, with or without some degree of nonsuspicious prostate enlargement, if the symptoms are not significantly bothersome or if the patient does not want treatment, no further evaluation is recommended. The patient should be reassured and can be seen again if necessary. This recommendation is based on the opinion that patients with nonbothersome LUTS are unlikely to experience significant health problems in the future due to their condition.

In patients with bothersome symptoms, it is now recognized that LUTS has a number of causes that may occur singly or in combination. Among the most important are BPO, overactive bladder, and nocturnal polyuria. The physician can discuss with the patient treatment alternatives based on the results of the initial evaluation with no further tests being needed (See Figure 1.1 Recommended Tests in Appendix A7). There should be a discussion of the benefits and risks involved with each of the recommended treatment alternatives (e.g., watchful waiting, medical, surgical, or minimally invasive surgical treatments). Then the choice of treatment is reached in a shared decision-making process between the physician and patient.

If the patient has predominant significant nocturia and is awakened two or more times per night to void, it is recommended that the patient complete a frequency volume chart for two to three days. The frequency volume chart will show 24-hour polyuria or nocturnal polyuria when present, the first of which has been defined as greater than three liters total output over 24 hours. In practice, patients with bothersome symptoms are advised to aim for a urine output of one liter per 24 hours. Nocturnal polyuria is diagnosed when more than 33% of the 24-hour urine output occurs at night. Nocturia should be managed according to the algorithm in Figure 1.1 in Appendix A7 in that fluid intake should be reduced; other treatments, such as desmopressin, can also be considered. If symptoms do not improve sufficiently, these patients can be managed similarly to those without predominant nocturia.

If the patient has no polyuria and medical treatment is considered, the physician can proceed with therapy by focusing initially on modifiable factors such as concomitant drugs, regulation of fluid intake (especially in the evening), lifestyle (increasing activity) and diet (avoiding excess of alcohol and highly seasoned or irritative foods).[14] If pharmacological treatment is necessary, it is recommended that the patient be followed to assess treatment success and possible adverse events. The time from initiation of therapy to treatment assessment varies according to the pharmacological agent prescribed. An interval of two to four weeks is recommended for alpha-blockers and at least a three-month interval is recommended for 5-ARIs.

If treatment is successful and the patient is satisfied, once yearly follow-up should include a repeat of the initial evaluation. The follow-up strategy will allow the physician to detect any changes

that have occurred -- more specifically, if symptoms have progressed or become more bothersome, or if a complication has developed that requires surgery.

Detailed Management

If the patient's LUTS are being managed by a primary care giver and the patient has persistent bothersome LUTS after basic management, then a urologist should be consulted. The urologist may use additional testing beyond those recommended for basic evaluation (Figure 1.2 in Appendix A7).

If drug therapy is considered, decisions will be influenced by coexisting overactive bladder symptoms and prostate size or serum PSA levels. If there are coexisting BOO and overactive bladder symptoms then the patient can be treated with combination alpha-blocker and anticholinergic therapy. When BOO symptoms predominate, alpha-adrenergic blocking agents are the first treatment of choice for LUTS due to BPH. However, alpha-blockers alone, 5-ARIs alone, and/or combination alpha-blocker and 5-ARI therapy have shown the most efficacy when the prostate is enlarged as assessed by PSA levels, transrectal ultrasound (TRUS) or on DRE (Figure 1.2 in Appendix A7). As always, the decision for choice of therapy should be decided in concert with the patient's wishes and concerns.

If storage symptoms predominate, an overactive bladder due to idiopathic detrusor overactivity is the most likely cause if there is no indication of BOO from flow study. The treatment options of lifestyle intervention (fluid intake alteration), behavioral modification and pharmacotherapy (anticholinergic drugs) should be discussed with the patient. **It is the expert opinion of the Panel that some patients may benefit using a combination of all three modalities. Should improvement be insufficient and symptoms severe, then newer modalities of treatment such as botulinum toxin and sacral neuromodulation can be considered.** The patient should be followed to assess treatment success or failure and possible adverse events according to the section on basic management above.

Interventional Therapy

If the patient elects interventional therapy and there is sufficient evidence of obstruction, the patient and urologist should discuss the benefits and risks of the various interventions. Transurethral resection is still the gold standard of interventional treatment but, when available, new interventional therapies could be discussed. The techniques accepted for clinical use are summarized below.

If the patient's condition is not sufficiently suggestive of obstruction (e.g., peak urinary flow (Qmax) >10 mL/sec) pressure flow studies are optional as treatment failure rates are somewhat higher in the absence of obstruction. If interventional therapy is planned without clear evidence of the presence of obstruction, the patient needs to be informed of possible higher failure rates of the procedure.

Treatment Alternatives

Standard: Information on the benefits and harms of treatment alternatives for LUTS secondary to BPH should be explained to patients with moderate to severe symptoms (AUA-SI score ≥8) who are bothered enough to consider therapy.
[Based on Panel consensus.]

The patient must be informed of all available and acceptable treatment alternatives applicable to his clinical condition, as well as the related benefits, risks and costs of each modality so that he may actively participate in the choice of therapy (shared decision-making). Some patients with bothersome symptoms might opt for surgery, while others might opt for watchful waiting or medical therapy depending on individual views of benefits, risks and costs. The treatment choices (Table 1) are discussed in this chapter with the supporting evidence presented in Chapter 3.

Table 1.1. Treatment alternatives for patients with moderate to severe symptoms of BPH

Watchful Waiting
Medical Therapies *Alpha-Blockers* - Alfuzosin - Doxazosin - Tamsulosin - Terazosin - Silodosin* *5- Alpha-reductase inhibitors (5-ARIs)* - Dutasteride - Finasteride *Combination Therapy* - Alpha blocker and 5-alpha-reductase inhibitor - Alpha blocker and anticholinergics *Anticholinergic Agents*
Complementary and Alternative Medicines (CAM)
Minimally Invasive Therapies - Transurethral needle ablation (TUNA) - Transurethral microwave thermotherapy (TUMT)
Surgical Therapies - Open prostatectomy - Transurethral holmium laser ablation of the prostate (HoLAP) - Transurethral holmium laser enucleation of the prostate (HoLEP) - Holmium laser resection of the prostate (HoLRP) - Photoselective vaporization of the prostate (PVP) - Transurethral incision of the prostate (TUIP) - Transurethral vaporization of the prostate (TUVP) - Transurethral resection of the prostate (TURP)

*Silodosin was approved by the US Food and Drug Administration but there were no published articles in the peer reviewed literature prior to the cut-off date for the literature search.

Watchful Waiting

Standard: Patients with mild symptoms of LUTS secondary to BPH (AUA-SI score <8) and patients with moderate or severe symptoms (AUA-SI score ≥8) who are not bothered by their LUTS should be managed using a strategy of watchful waiting (active surveillance).
[Based on review of the data and Panel consensus.]

Watchful waiting (active surveillance) is the preferred management strategy for patients with mild symptoms. It is also an appropriate option for men with moderate-to-severe symptoms who have not yet developed complications of LUTS and BOO (e.g., renal insufficiency, urinary retention or recurrent infection).

Watchful waiting is a management strategy in which the patient is monitored by his physician but currently receives no active intervention for BPH. The level of symptom distress that individual patients are able to tolerate is highly variable so watchful waiting may be a patient's treatment of choice even if he has a high AUA-SI score. Symptom distress may be reduced with simple measures such as avoiding decongestants or antihistamines, decreasing fluid intake at bedtime and decreasing caffeine and alcohol intake generally. Watchful waiting patients usually are reexamined yearly, repeating the initial evaluation as previously outlined in Figure 1.1 in Appendix A7.

As prostate volume assessed by DRE and/or serum PSA predicts the natural history of symptoms, flow rate and risk for AUR and surgery, patients may be advised, depending on the outcomes of these assessments, as to their individual risk. Measures to reduce the risk, such as medical intervention, may be offered depending on the circumstances.

Medical Management

Alpha-adrenergic Blockers (Alpha Blockers)

Option: Alfuzosin, doxazosin, tamsulosin, and terazosin are appropriate and effective treatment alternatives for patients with bothersome, moderate to severe LUTS secondary to BPH (AUA-SI score ≥8). Although there are slight differences in the adverse events profiles of these agents, all four appear to have equal clinical effectiveness. As stated in the 2003 Guideline, the effectiveness and efficacy of the four alpha blockers under consideration appear to be similar. Although studies directly comparing these agents are currently lacking, the available data support this contention.[*]
[Based on review of the data and Panel consensus.]

Option: The older, less costly, generic alpha blockers remain reasonable choices. These require dose titration and blood pressure monitoring.
[Based on Panel consensus.]

[*] Silodosin was approved by the U.S. Food and Drug Administration but there were no relevant published articles in the peer-reviewed literature prior to the cut-off date for the literature search.

Recommendation: As prazosin and the nonselective alpha-blocker phenoxybenzamine were not reviewed in the course of this Guideline revision, the 2003 Guideline statement indicating that the data were insufficient to support a recommendation for the use of these two agents as treatment alternatives for LUTS secondary to BPH has been maintained.
[Based on Panel consensus.]

Alpha-blockers are a widely used class of medications for the treatment of LUTS secondary to BPH. Noradrenergic sympathetic nerves have been demonstrated to effect the contraction of prostatic smooth muscle.[15] Ninety-eight percent of alpha-blockers are associated with the stromal elements of the prostate and are thus thought to have the greatest influence on prostatic smooth muscle tone.[16] Activation of these receptors and the subsequent increase in prostatic smooth muscle tone with urethral constriction and impaired flow of urine is thought to be a major contributor to the pathophysiology of LUTS secondary to BPH.

For the purposes of this Guideline, the specific agents reviewed included alfuzosin, doxazosin, tamsulosin and terazosin as they theoretically act in the location that will have the greatest benefit for symptoms with the fewest side effects. As these agents remain a mainstay of LUTS/BPH therapy, they were considered individually rather than by class. Alpha-blockers produce a significant symptom improvement compared to placebo, which the average patient will appreciate as a moderate improvement from baseline. The minor differences in efficacy noted between the different alpha-blockers are not statistically (when tested) or clinically significant.

The 2003 Guideline suggested that some patients treated with tamsulosin require the 0.8 mg dose to achieve the results obtained with doxazosin and terazosin titrated to response. This may present a cost-effectiveness problem for tamsulosin because the 0.8 mg daily dose requires two tablets and, thus, twice the expense of the lower dose, while the terazosin and doxazosin recommended dosages are available as one unit generic products and priced accordingly. However, during guideline development (March 2010), the Panel became aware that tamsulosin was available as a generic product which may have obviated this problem.

In clinical studies, rates for specific adverse events were low and similar between treatment and placebo groups. Dizziness was the most common adverse event, with rates reported between 2% and 14% in patients receiving alpha-blockers and somewhat lower rates with placebo. With regard to tamsulosin, the ~10% risk of ejaculatory disturbance cited in the 2003 Guideline appears to be lower in a more recent study noted in this review, understanding that this study used alternate metrics to gauge ejaculation alterations.[17]

Although doxazosin and terazosin require dose titration and blood pressure monitoring, they are inexpensive, are dosed once daily, and appear to be equally effective to tamsulosin and alfuzosin. In addition, they have generally similar side effect profiles, except ejaculatory dysfunction which has been reported less frequently with alfuzosin. Moreover, these older agents do not appear to increase the risk of the intraoperative floppy iris syndrome (IFIS), and doxazosin has demonstrated efficacy relative to placebo over four years of follow-up. The Panel wishes to remind clinicians that these agents remain excellent choices for the management of bothersome LUTS attributed to BPH.

In the expert opinion of the Panel, the caveat remains that alpha-blocker monotherapy is not considered optimal therapy for hypertension. LUTS/BPH and hypertension should be managed separately.

Option: The combination of an alpha-blocker and a 5-ARIs (combination therapy) is an appropriate and effective treatment for patients with LUTS associated with demonstrable prostatic enlargement based on volume measurement, PSA level as a proxy for volume, and/or enlargement on DRE.
[Based on review of the data and Panel consensus.]

In previous studies of one-year duration or less, combination therapy proved equal to alpha blocker therapy in efficacy and safety, but superior to 5-ARI therapy.[18, 19] However, the Medical Therapy of Prostate Symptoms (MTOPS) Study demonstrated that in the long term, among men with larger prostates, combination therapy is superior to either alpha-blocker or 5-ARI therapy in preventing progression and improving symptoms.[7] It was the opinion of the Panel that there is insufficient information to gauge the utility of alpha-blocker withdrawal among men initially treated with combination therapy. Although not an unreasonable strategy, clinicians need to recognize that the optimal duration of combination therapy prior to discontinuation of the alpha-blocker remains in doubt.

Data from the long-term MTOPS Study suggests a time-limited impact of alpha-blockers on the outcomes of AUR and crossover to surgery. That is, while AUR and surgery rates were lower with doxazosin compared to placebo in the early years of follow-up, by five years rates of these outcomes were similar in both groups.[7] The time-limited effect noted for doxazosin in MTOPS on these outcomes is likely a class effect.

The second major combination therapy study was the four-year, CombAT trial comparing tamsulosin, dutasteride and a combination of both; at present only the two-year data are available and published.[17] In contrast to prior studies, eligible men had a prostate volume > 30 mL by TRUS and a serum PSA level of >1.5 ng/mL. Combination therapy resulted in significantly greater improvements in symptoms compared to dutasteride from month three and tamsulosin from month nine, and in BPH-related health status from months three and 12, respectively. A significantly greater improvement from baseline in peak urinary flow for combination therapy vs. dutasteride and tamsulosin monotherapies from month six was also noted. There was a significant increase in drug-related adverse events with combination therapy vs. monotherapies. The primary endpoints of the four-year analysis are similar to the MTOPS Study and include progression to urinary retention and need for prostate surgery as well as symptom progression.

When comparing results from the MTOPS and CombAT studies, the following important differences must always be considered as they affect many aspects of the trials, including the outcomes (Table 1.2).

Table 1.2. Differences in MTOPS and CombAT Study Characteristics

	Medical Therapy of Prostate Symptoms Study (MTOPS)	Combination of Avodart and Tamsulosin (CombAT)
Treatments	Placebo vs finasteride vs doxazosin vs combination	Dutasteride vs. tamsulosin vs. combination
Setting	United States; select centers	International > 100 centers
Total number enrolled	*N*=3047	*N*=4844
Follow-up time	Up to 5.5 years	4 years (2-year data available)
Endpoints	Composite progression	International Prostate Symptom Score at 2 years; progression at 4 years
Prostate size (mean)	36.3 mL	55.0 mL
Prostate-specific antigen (mean)	2.4 ng/mL	4.0 ng/mL

Intraoperative Floppy Iris Syndrome

Recommendation: Men with LUTS secondary to BPH for whom alpha-blocker therapy is offered should be asked about planned cataract surgery. Men with planned cataract surgery should avoid the initiation of alpha-blockers until their cataract surgery is completed.
[Based on review of the data and Panel consensus.]

Recommendation: In men with no planned cataract surgery, there are insufficient data to recommend withholding or discontinuing alpha blockers for bothersome LUTS secondary to BPH.
[Based on review of the data and Panel consensus.]

Intraoperative floppy iris syndrome (IFIS) was first described by Chang and Campbell in 2005 as a triad of progressive intraoperative miosis despite preoperative dilation, billowing of a flaccid iris, and iris prolapse toward the incision site during phacoemusification for cataracts.[20] Operative complications in some cases included posterior capsule rupture with vitreous loss and postoperative intraocular pressure spikes, though visual acuity outcomes appeared preserved. The original report linked this condition with the preoperative use of tamsulosin; iris dilator smooth muscle inhibition has been suggested as a potential mechanism.[20, 21]

To better understand the implications of IFIS for the use of alpha-blocker therapy for men with LUTS attributed to BPH, two focused literature searches were conducted covering the period 1/1/1999 – 2/5/2009. Reference lists of the retrieved papers were reviewed for additional original reports. A total of 32 unique articles were identified with 11 studies published in 10 reports providing the requisite information on the risk of IFIS. A review of these data supports the following conclusions:

- The risk of IFIS was substantial among men taking tamsulosin, ranging from about 43% to 90% in 10 retrospective and prospective studies (sometimes the denominator for these risks was patients, and sometimes eyes).[20, 22-31]
- The risk of IFIS appears to be lower with older, generic alpha-blockers such as terazosin and doxazosin, with IFIS occurring in 0/11 patients (0%), 3/49 patients (6.1%), 1/51 eyes (2.0%) and 1/4 eyes (25%) in the four studies reporting on the risk of IFIS with these agents.[20, 23, 28, 31]
- There is insufficient exposure data to estimate the risk of IFIS with alfuzosin.
- The dose or duration of alpha-blocker treatment that influences the risk of IFIS is unclear.
- Whether stopping alpha-blocker treatment at any time before surgery mitigates the risk of IFIS is unclear.
- If experienced ophthalmologists are aware of preoperative alpha-blocker use, pre- and intraoperative precautions can be taken to reduce the risk of IFIS complications and attain excellent visual outcomes,[21, 24] though it remains unclear if the residual risk and outcomes are any worse than among patients without IFIS.

It is important to note that after the IFIS literature search and review was completed, a study was published in the Journal of the American Medical Association examining the association of recent tamsulosin use with serious postoperative complications (e.g., retinal detachment, lost lens or lens fragment, or endophthalmitis) requiring reintervention within 14 days of cataract surgery.[32] The study found that for every 255 men receiving tamsulosin in the immediate preoperative period, one of these complications would result. The study had insufficient power to determine whether discontinuation of tamsulosin reduced the risk of these complications, and no separate estimate of the risk was provided for other alpha blockers, including alfuzosin. Therefore, the Panel believed that these new findings were supportive of their original conclusions.

5-Alpha-reductase Inhibitors (5-ARIs)

Option: 5-ARIs may be used to prevent progression of LUTS secondary to BPH and to reduce the risk of urinary retention and future prostate-related surgery.
[Based on review of the data and Panel consensus.]

Recommendation: 5-ARIs should not be used in men with LUTS secondary to BPH without prostatic enlargement.
[Based on review of the data and Panel consensus.]

Option: The 5-ARIs are appropriate and effective treatment alternatives for men with LUTS secondary to BPH who have demonstrable prostate enlargement.
[Based on review of the data and Panel consensus.]

The compounds in this class approved for the treatment of BPH, finasteride at a dose of 5 mg daily, and dutasteride at a dose of 0.5 mg tablet daily, differ in two important pharmacological characteristics.[33-35]

- Finasteride inhibits exclusively the 5-AR type II isoenzyme, while dutasteride inhibits both types I and II. This difference in activity leads to a reduction in serum levels of dihydroxytestosterone (DHT) by approximately 70% with finasteride compared to approximately 95% with dutasteride.[34] However, in the prostate, and specifically in BPH tissues, type II 5-AR is far more common than type I.[36] The reduction of DHT in prostate tissues relative to placebo is therefore less pronounced and has been measured at approximately 80% (finasteride)[37] and approximately 94% (dutasteride)[38].
- The serum half life of finasteride ranges from six to eight hours whereas that of dutasteride is five weeks. This pharmacokinetic difference may have implications in terms of treatment compliance as well as persistence of side effects.[39]

There are no data from direct comparator trials or other sources to suggest that the clinical efficacy of the two 5-ARIs used for the appropriate indication is different. Comparisons are difficult if not impossible due to the fact that inclusion and exclusion criteria do not match for any trials of finasteride or dutasteride. In different studies, various thresholds have been proposed for the definition of prostate enlargement (25, 30 or 40 mL). In some studies, serum PSA has been recommended as a proxy for prostate size (using usually a threshold of 1.5 ng/dL).

The Panel was not charged with addressing the use of 5-ARIs for chemoprevention but understands the controversies for and against use in that indication.[40, 41]

Finasteride

In the 2003 Guideline finasteride was found to be an appropriate BPH treatment option based on a thorough review of a large body of evidence consisting of randomized, placebo-controlled studies of one, two and four years duration. With finasteride, the average patient experiences a three-point improvement in the AUA-SI. Finasteride is less effective than an alpha-blocker in improving LUTS and is not an appropriate treatment for men with LUTS who do not have prostatic enlargement. Due to the more progressive nature of the disease in men with larger glands and/or higher PSA values, conservatively treated patients (watchful waiting or placebo groups) face an increasingly worse prognosis, enhancing the difference over time in outcomes between finasteride and no treatment or placebo groups. Finasteride reduces the risk of subsequent AUR and the need for BPH-related surgery with the absolute benefit increasing with rising prostate volume or serum PSA. Reported adverse events are primarily sexually related and include decreased libido, ejaculatory dysfunction, and ED. These events are reversible and uncommon after the first year of therapy.

The majority of studies with finasteride were published before the 2003 Guideline and since then the compound has lost patent protection. Only a small number of subset or post hoc analyses and open-label extension studies have been reported since the 2003 Guideline.

Dutasteride

Dutasteride is the second 5-ARI approved by the U.S. Food and Drug Administration for the use in men with LUTS and BPH.[42] Its pharmacological characteristics produce a more profound reduction in both serum and intraprostatic DHT levels compared with finasteride. Whether these differences are clinically important is unknown; there are no published trials directly comparing the two agents. Indirect comparisons of efficacy outcomes are limited in that only patients with baseline prostate volumes > 30

mL by TRUS and serum PSA levels > 1.5 ng/mL were eligible for enrollment in dutasteride clinical trials, thus enriching the population for potential responders to 5-ARI treatment.

The clinical database for dutasteride consists mainly of three trials: the phase III randomized, placebo-controlled trial of two-year duration[43] with an open-label extension[44]; a study evaluating the effect of a placebo-controlled withdrawal of an alpha-blocker from a combination therapy arm (SMART 1)[45]; and a four-year study comparing dutasteride vs. tamsulosin vs. their combination of the two (CombAT) for which only the two-year interim data are published[17]. Dutasteride is untested among men with prostate volumes < 30 mL. Reported treatment-related adverse events include ED, decreased libido, gynecomastia and ejaculation disorders.

Combination Therapy with Alpha-adrenergic Antagonists

See Guideline Statement and text in section on alpha-adrenergic antagonists.

5-Alpha-reductase Inhibitors for Other Indications

Hematuria

Option: Finasteride is an appropriate and effective treatment alternative in men with refractory hematuria presumably due to prostatic bleeding (i.e., after exclusion of any other causes of hematuria). A similar level of evidence concerning dutasteride was not reviewed; it is the expert opinion of the Panel that dutasteride likely functions in a similar fashion. [Based on review of the data and Panel consensus.]

One of the early intraprostatic effects of finasteride has been the suppression of vascular endothelial growth factor (VEGF).[46-49] Initially anecdotally,[50] and then in long-term follow-up studies[51-53] it was noted that men with prostate-related bleeding (e.g., all other causes of hematuria had been excluded) responded to finasteride therapy with a reduction or cessation of such bleeding and a reduced likelihood of recurrent bleeding. A prospective study verified these observations.[46]

Prevention of Bleeding During Transurethral Resection of the Prostate (TURP)

Option: Overall, there is insufficient evidence to recommend using 5-ARIs preoperatively in the setting of a scheduled TURP to reduce intraoperative bleeding or reduce the need for blood transfusions.
[Based on review of the data and Panel consensus.]

Based on the effect of 5-ARIs on prostate-related bleeding, several investigators studied the effect of presurgical treatment with a 5-ARI on bleeding during TURP. Four studies were randomized, placebo-controlled and well executed.[54-57] Other studies were either uncontrolled[58, 59] or randomized but used poorly defined methods of measuring the blood loss.[60] One of the randomized and the two nonrandomized studies found a reduction in blood loss or transfusion requirements.

Anticholinergic Agents

Option: Anticholinergic agents are appropriate and effective treatment alternatives for the management of LUTS secondary to BPH in men without an elevated post-void residual and when LUTS are predominantly irritative.

[Based on Panel consensus.]

Recommendation: Prior to initiation of anticholinergic therapy, baseline PVR urine should be assessed. Anticholinergics should be used with caution in patients with a post-void residual greater than 250 to 300 mL.
[Based on Panel consensus.]

Anticholinergic (antimuscarinic) agents block the neurotransmitter acetylcholine in the central and the peripheral nervous system. This class of medication reduces the effects mediated by acetylcholine on its receptors in bladder neurons through competitive inhibition. Five muscarinic subclasses (M1 through M5) of cholinergic receptors have been described in the human bladder muscle, the majority comprises subtypes M2 and M3. While M2 receptors predominate, M3 receptors are primarily responsible for bladder contraction.[61]

Three randomized controlled trials (RCTs) evaluating the use of tolterodine either as monotherapy or in combination with an alpha-blocker in men with LUTS related to BPH were identified on the literature review.[62-64] Although, these trials do not sufficiently demonstrate the efficacy or effectiveness of tolterodine, the Panel concluded that the use of anticholinergic could benefit some patients. The use of PSA measurements does not appear applicable to predicting or monitoring the effectiveness of tolterodine for the treatment of BPH/LUTS. Randomized controlled trials investigating anticholinergic agents other than tolterodine for the treatment of LUTS secondary to BPH have not been published. The most common adverse event reported with tolterodine monotherapy in men with BPH related LUTS was dry mouth, ranging in frequency from seven to 24%.[62, 63, 65] The rate of urinary retention was similar to placebo in two of the largest RCTs. The occurrence of constipation, diarrhea, and somnolence were also similar in frequency to placebo.[62, 63]In available RCTs, the overall withdrawal rate from tolterodine therapy ranged from 11% -- 12%.[62, 63] Withdrawal due to adverse events ranged from 0.02% to 0.3%.[62, 64] ED and ejaculation disorders were not reported with the use of tolterodine alone or in combination with tamsulosin. Significant morbidity and mortality resulting from tolterodine use was not reported in any of these RCTs.

Complementary and Alternative Medicines (CAM)

Recommendation: No dietary supplement, combination phytotherapeutic agent or other nonconventional therapy is recommended for the management of LUTS secondary to BPH.
[Based on review of the data and Panel consensus.]

Recommendation: At this time, the available data do not suggest that saw palmetto has a clinically meaningful effect on LUTS secondary to BPH. Further clinical trials are in progress and the results of these studies will elucidate the potential value of saw palmetto extracts in the management of patients with BPH.
[Based on review of the data and Panel consensus.]

Recommendation: The paucity of published high quality, single extract clinical trials of Urtica dioica do not provide a sufficient evidence base with which to recommend for or against its use for the treatment of LUTS secondary to BPH.

[Based on review of the data and Panel consensus.]

Nonconventional approaches to the management of LUTS due to BPH have been of great interest to patients for many years. Of particular appeal are dietary supplements, which include extracts of the saw palmetto plant (Serenoa repens) and stinging nettle (Urtica dioica), among several others. Since the publication of the last version of this Guideline, higher-quality evidence has begun to appear and assessments of the efficacy of the dietary supplements are beginning to evolve.

By far the most commonly studied extract is that of the saw palmetto plant. Systematic reviews of the earlier evidence suggested that saw palmetto extracts may have modest efficacy in the treatment of LUTS.[66, 67] However, more recent studies with more rigorous methods have generally failed to confirm a clinically important role for saw palmetto in the management of BPH.[68, 69] Further studies are ongoing, and more definitive evidence regarding the use of saw palmetto will be forthcoming.

Minimally Invasive Therapies

Standard: Safety recommendations for the use of transurethral needle ablation of the prostate (TUNA) and transurethral microwave thermotherapy (TUMT) published by the U.S. Food and Drug Administration should be followed: http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/default.htm.
[Based on review of the data.]

Transurethral Needle Ablation (TUNA) of the Prostate

Option: TUNA of the prostate is an appropriate and effective treatment alternative for bothersome moderate or severe LUTS secondary to BPH.
[Based on review of the data and Panel consensus.]

TUNA is described in detail in Chapter 3. Since the development of the 2003 Guideline, little new information on effectiveness and safety has been published. There are only three prospective, randomized trials (one trial reports outcomes at two time points).[70-72] Improvements in symptoms, QoL, and urinary flow rates are significant but do not generally match the result of TURP and, taken together, lack sufficient detail on comorbidity of subjects. The remainder are cohort studies from which the reporting of outcomes varies considerably. In addition, the bulk of the literature suggests a high long-term retreatment rate. TUNA is safe with low peri-operative complications (such as bleeding) and has a low to nonexistent rate of associated ED for which this therapy is attractive. The Panel concluded that a degree of uncertainty remains regarding TUNA because of a paucity of high-quality studies.

Transurethral Microwave Thermotherapy (TUMT)

Option: TUMT is effective in partially relieving LUTS secondary to BPH and may be considered in men with moderate or severe symptoms.
[Based on review of the data and Panel consensus.]

TUMT heats the prostate using a microwave antennae mounted on a urethral catheter. This interventional therapy is effective in partially relieving the symptoms and bother believed secondary to BPH. TUMT is the least operator-dependent of the BPH interventions and predicting responders is difficult and inconsistent.

A systematic review of TUMT data (see Table 3.6 in Appendix A8) reveals a heterogeneous mix of studies of various sample sizes and TUMT protocols often using different outcome measures with varying durations of follow-up. This leads to conflicting results, as may be seen in studies of shorter versus longer follow-up. There is no compelling evidence from comparator trials to conclude that one device is superior to another.

Earlier, low-energy TUMT devices similarly possessed comparatively less clinical efficacy than later, higher energy counterparts but also carried a lower risk of side effects. The durability of TUMT treatment appears to have improved with the advent of higher energy, later generation devices. One should also note, however, that the concept of durability with TUMT may be misleading, as the data suffer from selection bias. Most studies analyze only those patients who remained in the study at the time of analysis; these patients would tend to represent the best "responders". In many studies, less than half of the initial group of men treated was analyzed at the end of the study period. An intent-to-treat analysis which considers therapeutic failures provides a better measure of the true effectiveness and durability of TUMT. Outpatient capability, lack of sexual side effects and avoidance of actual surgery are attractive to patient and clinician alike. But perhaps there is one issue that has held back greater utilization: the perception that these approaches lack sufficient durability of effect to assume a greater role in the management of LUTS.

Surgical Procedures

Surgical intervention is an appropriate treatment alternative for patients with moderate-to-severe LUTS and for patients who have developed AUR or other BPH-related complications. By definition, surgery is the most invasive option for BPH management and generally, patients will have failed medical therapy before proceeding with surgery. However, medical therapy may not be viewed as a requirement because some patients may wish to pursue the most effective therapy as a primary treatment if their symptoms are particularly bothersome. As with other medical treatment alternatives, the decision to elect surgery as the treatment alternative is based upon the patient's own views of treatment risks vs. benefits. The 2003 Guideline recognized that TURP remained the benchmark for therapy. Alternative technologies such as laser-assisted TURP were reported to offer lower morbidities but were typically still performed in the operating room setting and require anesthesia. In addition to open prostatectomy (e.g., retropubic, suprapubic), surgical options for BPH management include:

- Transurethral holmium laser ablation of the prostate (HoLAP)
- Transurethral holmium laser enucleation of the prostate (HoLEP)
- Holmium laser resection of the prostate (HoLRP)
- Photoselective vaporization of the prostate (PVP)
- Transurethral incision of the prostate (TUIP)
- Transurethral vaporization of the prostate (TUVP)
- Transurethral resection of the prostate (TURP)
    - Monopolar
    - Bipolar

- Laparoscopic and robotic prostatectomy (considered investigational)
  Recommendation: Surgery is recommended for patients who have renal insufficiency secondary to BPH, who have recurrent UTIs, bladder stones or gross hematuria due to BPH, and those who have LUTS refractory to other therapies. The presence of a bladder diverticulum is not an absolute indication for surgery unless associated with recurrent UTI or progressive bladder dysfunction.
  [Based on review of the data and Panel consensus.]

Open Prostatectomy

Option: Open prostatectomy is an appropriate and effective treatment alternative for men with moderate to severe LUTS and/or who are significantly bothered by these symptoms. The choice of approach should be based on the patient's individual presentation including anatomy, the surgeon's experience, and discussion of the potential benefit and risks for complications. The Panel noted that there is usually a longer hospital stay and a larger loss of blood associated with open procedures.

[Based on review of the data and Panel consensus.]

Open prostatectomy involves the surgical removal (enucleation) of the inner portion of the prostate via a suprapubic or retropubic incision in the lower abdominal area. Open prostatectomy typically is performed on patients with prostate volumes greater than 80 to 100 mL.[73-83] The Panel noted that there is significant risk of blood loss, transfusion and a longer hospital stay associated with open prostatectomy than TURP. Open prostatectomies may be needed only for men with very enlarged prostate glands (it may be more effective than TURP in relieving the blockage of urine flow), and for men with bladder diverticula (pockets), or stones.

Laser Therapies

Option: Transurethral laser enucleation (holmium laser resection of the prostate [HoLRP], holmium laser enucleation of the prostate [HoLEP]), transurethral side firing laser ablation (holmium laser ablation of the prostate [HoLAP], and photoselective vaporization [PVP]) are appropriate and effective treatment alternatives to transurethral resection of the prostate and open prostatectomy in men with moderate to severe LUTS and/or those who are significantly bothered by these symptoms. The choice of approach should be based on the patient's presentation, anatomy, the surgeon's level of training and experience, and a discussion of the potential benefit and risks for complications. Generally, transurethral laser approaches have been associated with shorter catheterization time and length of stay, with comparable improvements in LUTS. There is a decreased risk of the perioperative complication of transurethral resection syndrome. Information concerning certain outcomes, including retreatment and urethral strictures, is limited due to short follow-up. As with all new devices, comparison of outcomes between studies should be considered cautiously given the rapid evolution in technologies and power levels. Emerging evidence suggests a possible role of transurethral enucleation and laser vaporization as options for men with very large prostates (> 100 g). There are insufficient data on which to base comments on bleeding.
[Based on review of the data and Panel consensus.]

In general, laser energy can be used to produce a variety of effects within prostate tissue including coagulation necrosis or vaporization and resection of tissue. Today, the holmium and variants of the PVP laser are the most common laser technologies used to treat prostate disease.

Transurethral Holmium Laser Ablation of the Prostate (HoLAP)

The holmium:YAG laser may be used to treat prostatic tissue transurethrally using a 550 micron side-firing laser fiber in a noncontact mode. This technology delivers laser energy at a wavelength of 2120 nm (infrared range) which is absorbed primarily by water and results in an optical penetration depth of 0.4 mm. The HoLAP procedure is intended to be comparable to TURP in that the prostatic lobes may be vaporized down to the surgical capsule resulting in a TURP-like effect.

Transurethral Holmium Laser Enucleation of the Prostate (HoLEP)

The holmium laser has been used to enucleate the prostate adenoma, separating the adenoma from the surgical capsule, from apex to base, after any median lobe has been freed from the bladder neck. Typically, the technology is utilized for larger glands that previously would have been treated surgically with an open prostatectomy. Generally, the results compare favorably to open prostatectomy in the hands of an experienced surgeon.[84-86] In other trials, improvements in symptom scores, QoL indices, and flow rate, approach those obtained after TURP.[87, 88] Nonetheless, long-term data beyond two years are still lacking[87], and the procedure requires specialized training and equipment. The Panel believes that the learning curve for holmium laser enucleation of the prostate appears to be greater than that of other technologies.

Operative times for holmium enucleation have been improved significantly with the advent of the tissue morcellator. By morcellating tissue within the bladder, the resection technique could be modified to allow complete enucleation of the median and lateral lobes of the prostate.

Holmium Laser Resection of the Prostate (HoLRP)

The prostatic adenoma is resected using a holmium laser fiber and a specially adapted resectoscope.[89] Data suggest that the intermediate-term, symptomatic improvement obtained after holmium laser resection may be comparable to that obtained after TURP, with a slightly reduced risk of bleeding, need for blood transfusions, and an absence of transurethral resection (TUR) syndrome.[90]

Photoselective Vaporization of the Prostate (PVP)

PVP of the prostate is a form of transurethral prostatectomy performed using a 600 micron side-firing fiber in a noncontact mode. The primary difference from HoLAP is its wavelength of 532 nm (in the green visible spectrum) which is absorbed by both the water irrigation and hemoglobin resulting in an optical penetration depth of 0.8 mm. The other acronyms for this procedure, KTP (potassium tintanyl phosphate) and LBO (lithium borate), identify the crystal used in the laser generator. Typically performed using normal saline irrigation and a continuous flow scope, the goal of PVP is to create a TURP-like cavity after ablating the various prostatic lobes down to the surgical capsule. Symptom scores improved consistently in all studies,[91, 92] as did QoL scores[93, 94] and maximum urinary flow rates.[94, 95]

Transurethral Incision of the Prostate (TUIP)

Option: TUIP is an appropriate and effective treatment alternative in men with moderate to severe LUTS and/or who are significantly bothered by these symptoms when prostate size is less than 30 mL. The choice of approach should be based on the patient's individual presentation including anatomy, the surgeon's experience and discussion of the potential benefits and risks for complications.
[Based on review of the data and Panel consensus.]

TUIP is an outpatient endoscopic surgical procedure limited to the treatment of smaller prostates (30 mL of resected weight or less). In the TUIP procedure, one or two cuts are made in the prostate and prostate capsule, reducing constriction of the urethra. In the appropriate patient, TUIP results in degrees of symptomatic improvement equivalent to those attained after TURP.[96-99] In addition, compared to TURP, TUIP results in a significantly reduced risk of ejaculatory disturbance. TUIP also was associated with a slightly higher rate of secondary procedures.

Transurethral Electrovaporization of the Prostate (TUVP)

Option: TUVP is an appropriate and effective treatment alternative in men with moderate to severe LUTS and/or who are significantly bothered by these symptoms. The choice of approach should be based on the patient's individual presentation including anatomy, the surgeon's experience and discussion of the potential benefit and risks for complications.
[Based on review of the data and Panel consensus.]

Transurethral electrovaporization is an adaptation of an old device, the roller ball electrode. Compared to TURP, transurethral electrovaporization results in equivalent, short-term improvements in symptom scores, urinary flow rate, and QoL indices. There is a decreased risk of the perioperative complication of transurethral resection syndrome compared with traditional monopolar TURP. However, the rates of postoperative irritative voiding symptoms, dysuria and urinary retention, as well as the need for unplanned secondary catheterization, appear to be higher. Reoperation rates were higher with TUVP than with TURP. Long-term comparative trials are needed to determine if the transurethral electrovaporization approach is superior to standard TURP.

Transurethral Resection of the Prostate (TURP)

Option: TURP is an appropriate and effective primary alternative for surgical therapy in men with moderate to severe LUTS and/or who are significantly bothered by these symptoms. The choice of a monopolar or bipolar approach should be based on the patient's presentation, anatomy, the surgeon's experience and discussion of the potential risks and likely benefits.
[Based on review of the data and Panel consensus.]

Option: Overall, there is insufficient evidence to recommend using 5-ARIs in the setting of a pre-TURP to reduce intraoperative bleeding or reduce the need for blood transfusions.
[Based on review of the data and Panel consensus.]

TURP involves the surgical removal of the prostate's inner portion via an endoscopic approach through the urethra, with no external skin incision. Historically, this procedure was the most common active treatment for symptomatic BPH but potential morbidities, desire to shorten catheter dwell time and pressure to reduce hospital length of stay have stimulated the development of alternative procedures. In the interval since the 2003 Guideline was published, reports concerning TURP that met inclusion criteria for this Guideline were limited to studies focused on TURP as a comparison. Consequently, the Veterans Affairs (VA) Cooperative Study remains the most definitive published study of the efficacy and safety of TURP.[100] The VA Cooperative Study found a 1% risk of urinary incontinence (which was similar to the incidence in the watchful waiting group) and an overall decline in sexual function that was identical to the watchful waiting treatment group. Usually performed under general or spinal anesthesia, TURP requires a hospital stay. One unique complication of TURP is TUR syndrome, a dilutional hyponatremia that occurs when irrigant solution is absorbed into the bloodstream. Other complications that have been reported in more than 5% of patients include (in order of frequency): erectile dysfunction (which may not in all cases be attributable to the surgery); irritative voiding symptoms; bladder neck contracture; the need for blood transfusion; UTI; and hematuria.

Bipolar resection of the prostate utilizes a specialized resectoscope loop that incorporates both the active and the return electrodes. This design limits the dispersal of the current flow in the body which theoretically reduces the deleterious effects of the stray current flow. The bipolar loop can be used to resect tissue as well as coagulate, vaporize and transect tissue. Because the bipolar resectoscope uses 0.9% sodium chloride solution as irrigation fluid, the risk of TUR syndrome is eliminated.

Laparoscopic and Robotic Prostatectomy

Option: Men with moderate to severe LUTS and/or who are significantly bothered by these symptoms can consider a laparoscopic or robotic prostatectomy. There are insufficient published data on which to base a treatment recommendation.
[Based on review of the data and Panel consensus.]

Laparoscopic and robotic prostatectomies are techniques currently associated with the treatment of prostate cancer but a single cohort study has reported on consecutive patients undergoing laparoscopic simple prostatectomy for the treatment of LUTS.[101] The operation can take three to five hours, which is longer than traditional surgery.

Future Research

Given the increasing aging male population, the health burden of benign prostate disorders such as BPH, will be a major arena for research in the future. Therefore, there is a substantial need to develop a long-range vision to focus and promote efforts to better understand and manage benign prostate disease.[102] In 2010, the AUA launched an initiative to identify national research priorities in urology. Known as the AUA Foundation National Urology Research Agenda (NURA), this document defines the top issues facing urology, and BPH is identified as an area for scientific opportunity.[103] The authors cite the relationship between BPH and co-morbidities as a high priority as well as a more objective method

for diagnosing BPH. Inflammation of the prostate is an important area of study, and the role of diet, lifestyle, and sociodemographics on BPH is important.

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) convened a panel of key opinion leaders that included basic researchers, translational scientists, epidemiologists, and clinicians and clinical researchers to develop a comprehensive strategic plan for advancing research in benign prostate disease.[102] This focused group of research and thought leaders identified four major areas of key significance for future investigation: (1) basic science, (2) epidemiology/population-based studies, (3) translational opportunities, and (4) clinical sciences. The following represents a synopsis of their findings and recommendations of the NIDDK Prostate Research Strategic Plan.[102]

There are a host of major clinical opportunities in the future with respect to clinical science development in BPH. This includes:

1. Defining the clinical phenotype: definitions and their importance
2. Measuring disease severity and outcomes
3. Issues in clinical trial design
    a. Study concepts for drug therapy, phytotherapies, behavioral and lifestyle interventions
4. Additional intervention therapies.

These chosen topics illustrate the pressing need for improved methods to diagnose and measure disease symptoms, severity and progression; development of new drug therapies, derived from both synthetic and naturally occurring compounds; and identification and clinical testing of prevention strategies; and for further development of intervention therapies based on non- or minimally invasive approaches. It is anticipated that progress in these areas has the potential to advance clinical care for patients with benign prostate disease beyond current strategies of symptom management, which in many cases are incompletely effective for the individual patient and are not generally effective across patients classified as having the same disorder.

High Priority Recommendations for Future Research:

- Make obesity and lifestyle interventions a priority area for BPH disease. This should include studies of specific hypotheses of how LUTS/BPH is impacted by obesity and related diseases; new and enhanced collaborative efforts between urologists, clinical trialists, exercise physiologists and dietary experts; and assessments of the relationship between the various manifestations of metabolic syndrome and LUTS/BPH.
- Develop preventive strategies aimed at underlying common pathophysiology of benign prostate disease.
- Develop studies that assess disease “phenotypes” and lead to better disease definitions (e.g. size versus morphological characteristics and their relative importance in producing symptoms, obstructive versus irritative symptoms relative to prostate morphology and size, and patient phenotypes relative to urologic symptom profiles).
- Encourage the study of primary prevention for LUTS/BPH.
- Develop a plan for a multidisciplinary working group to develop a specific research agenda for symptom and health status measurement related to male LUTS. This effort should include

investigators interested in the broad spectrum of underlying conditions, as well as the developers of the prominent instruments. Professional societies, national and international, and other government organizations are also suggested as participants.

- Development of collaborative network to standardize treatment assessment. This may take the form of a LUTS Treatment Collaborative Network (LTCN) that would allow the critical aggregation of thought leaders, trial design experts, industrial collaborators, and various federal agencies to identify clinically meaningful assessments of promising medical, minimally invasive, and surgical treatments.

Conflict of Interest Disclosures

All panel members completed Conflict of Interest disclosures. Those marked with (C) indicate that compensation was received; relationships designated by (U) indicate no compensation was received.

Board Member, Officer, Trustee: Michael J. Barry, Foundation for Informed Medical Decision Making(C)

Consultant or Advisor: Kevin T. McVary, Eli Lilly(C), Allergan(C), Watson Pharmaceuticals(C), Neotract(C), Ferring(C); Reginald C. Bruskewitz, Urologix(C), Neotract(C); Claus G. Roehrborn, American Medical Systems(C), GlaxoSmithKline(C), Lilly(C), Neotract(C), Neri(C), NxThera(C), Pfizer(C), Warner Chilcot(C), Watson(C); Steven A. Kaplan, Pfizer,(C), Astellas(C), Watson(C), Neotract(C)

Investigator: Kevin T. McVary, NIDDK(C), Lilly/ICOS(C), Allergan(C); Robert F. Donnell, National Cancer Institute(C), NIH(C), EDAP (U); James C. Ulchaker, American Medical Systems(C); Claus G. Roehrborn, American Medical Systems(C), BPH Registry/Univ. of Michigan, Lilly(C)

Lecturer: Kevin T. McVary, GlaxoSmithKline (C), Lilly/ICOS(C), Sanofi-Aventis(C), Advanced Health Media(C); Steven A. Kaplan, GlaxoSmithKline(C); James C. Ulchaker, GlaxoSmithKline(C), Astellas Pharma US, Inc.(C); Claus G. Roehrborn, GlaxoSmithKline(C), Watson(C)

Medical Director: James C. Ulchaker, Fortec Medical(C)

Scientific Study or Trial: Reginald C. Bruskewitz, NIDDK(C); Robert F. Donnell, Allergan(C), RTOG (U), Astra Zeneca(C); Steven A. Kaplan, NIH(C), NIDDK(C), Claus G. Roehrborn, American Medical Systems(C), BPH Registry/Univ. of Michigan(C), GlaxoSmithKline(C), Lilly(C), Neri(C), Pfizer(C)

Other: Christopher M. Gonzalez, Aurasense, Investment Interest (U), Coloplast, Gift for reconstruction fellowship program(C), Wolf, Gift for international surgical relief fund(C)

Disclaimer

AUA Guidelines provide guidance only, and do not establish a fixed set of rules or define the legal standard of care. As medical knowledge expands and technology advances, the guideline statements will change. Today these evidence-based guideline statements do not represent absolute mandates, but do represent provisional proposals for treatment under the specific conditions described in each document. For all these reasons, the guideline statements do not pre-empt physician judgment in individual cases. Also, treating physicians must take into account variations in resources, and in patient tolerances, needs and preferences. Conformance with AUA Guidelines cannot guarantee a successful outcome.

References

1. Lee C, Kozlowski J, Grayhack J: Intrinsic and extrinsic factors controlling benign prostatic growth. Prostate 1997; **31**: 131.

2. Auffenberg G, Helfan B, McVary K: Established medical therapy for benign prostatic hyperplasia. Urol Clin North Am 2009; **36**: 443.

3. Reynard J: Does anticholinergic medication have a role for men with lower urinary tract symptoms/benign prostatic hyperplasia either alone or in combination with other agents? Curr Opin Urol 2004; **14**: 13.

4. Wei J, Calhoun E, Jacobsen S: Urologic diseases in America project: benign prostatic hyperplasia. J Urol 2005; **173**: 1256.

5. McVary K: BPH: Epidemiology and Comorbidities. Am J Manag Care 12 2006; **5 Suppl**: S122.

6. O'Leary M: LUTS, ED, QOL: alphabet soup or real concerns to aging men? Urology 2000; **56**: 7.

7. McConnell J, Roehrborn C, Bautista O et al: The long-term effect of doxazosin, finasteride, and combination therapy on the clinical progression of benign prostatic hyperplasia. N Engl J Med 2003; **349**: 2387.

8. Di Silverio F, Gentile V, Pastore A et al: Benign prostatic hyperplasia: what about a campaign for prevention? Urol Int 2004; **72**: 179.

9. O'Leary M: Lower urinary tract symptoms/benign prostatic hyperplasia: maintaining symptom control and reducing complications. Urology 2003; **62**: 15.

10. Barry M, Fowler F, Jr, O'Leary M et al: The American Urological Association symptom index for benign prostatic hyperplasia. The Measurement Committee of the American Urological Association. J Urol 1992; **148**: 1549.

11. Barry M, Fowler F, Jr, O'Leary M et al: Measurement Committee of the American Urological Association. Med Care 1995; **22**: AS145.

12. Male lower urinary tract dysfunction: evaluation and management. In: 6th International Consultation on New Developments in Prostate Cancer and Prostate Diseases. Edited by J. McConnell, P. Abrams, L. Denis et al. Paris, France: Health Publications, 2006

13. Abrams P, Chapple C, Khoury S et al: Evaluation and treatment of lower urinary tract symptoms in older men. J Urol 2009; **181**: 1779.

14. Abrams P, Chapple C, Khoury S et al: Evaluation and Treatment of Lower Urinary Tract Symptoms in Older Men. J Urol 2009; **181**: 1779.

15. Caine M, Raz S, Zeigler M: Adrenergic and cholinergic receptors in the human prostate, prostatic capsule and bladder neck. Br J Urol 1975; **47**: 193.

16. Kobayashi S, Tang R, Shapiro E et al: Characterization and localization of prostatic alpha 1 adrenoceptors using radioligand receptor binding on slide-mounted tissue section. J Urol 1993; **150**: 2002.

17. Roehrborn C, Siami P, Barkin J et al: The effects of dutasteride, tamsulosin and combination therapy on lower urinary tract symptoms in men with benign prostatic hyperplasia and prostatic enlargement: 2-year results from the CombAT study. J Urol 2008; **179**: 616.

18. Lepor H, Williford W, Barry M et al: The efficacy of terazosin, finasteride, or both in benign prostatic hyperplasia. Veterans Affairs Cooperative Studies Benign Prostatic Hyperplasia Study Group. N Eng J Med 1996; **33**: 533.

19. Kirby R, Roehrborn C, Boyle P et al: Efficacy and tolerability of doxazosin and finasteride, alone or in combination, in treatment of symptomatic benign prostatic hyperplasia: the Prospective European Doxazosin and Combination Therapy (PREDICT) trial. Urology 2003; **61**: 119.

20. Chang D, Campbell J: Intraoperative floppy iris syndrome associated with tamsulosin. J Cataract Refract Surg 2005; **31**: 664.

21. Abdel-Aziz S, Mamalis N: Intraoperative floppy iris syndrome. Curr Opin Ophthalmol 2009; **20**: 37.

22. Oshika T, Ohashi Y, Inamura M et al: Incidence of intraoperative floppy iris syndrome in patients on either systemic or topical alpha(1)-adrenoceptor antagonist. Am J Ophthalmol 2007; **143**: 150.

23. Srinivasan S, Radomski S, Chung J et al: Intraoperative floppy-iris syndrome during cataract surgery in men using alpha-blockers for benign prostatic hypertrophy. J Cataract Refract Surg 2007; **33**: 1826.

24. Chang D, Osher R, Wang L et al: Prospective multicenter evaluation of cataract surgery in patients taking tamsulosin (Flomax). Ophthamology 2007; **114**: 957.

25. Amin K, Fong K, Horgan S: Incidence of intra-operative floppy iris syndrome in a U.K. district general hospital and implications for future workload. Surgeon 2008; **6**: 207.

26. Blouin M, Blouin J, Perreault S et al: Intraoperative floppy-iris syndrome associated with α1-adrenoreceptors Comparison of tamsulosin and alfuzosin. Cataract and Refractive Surgery 2007; **33**: 1227.

27. Cantrell M, Bream-Rouwenhorst H, Steffensmeir A et al: Intraoperative floppy iris syndrome associated with alph-adrenergic receptor antagonists. Ann Pharmacother 2008; **42**: 558.

28. Chadha V, Borooah S, Tey A et al: Floppy iris behaviour during cataract surgery: associations and variations. Br J Ophthamol 2007; **91**: 40.

29. Cheung C, Awan M, Sandramouli S: Prevalence and clinical findings of tamsulosin-associated intraoperative floppy-iris syndrome. J Cataract Refracr Surg 2006; **32**: 1336.

30. Keklikci U, Isen K, Unlu K et al: Incidence, clinical findings and management of intraoperative floppy iris syndrome associated with tamsulosin. Acta Ophthalmol 2008; **87**: 306.

31. Takmaz T, Can I: Clinical features, complications, and incidence of intraoperative floppy iris syndrome in patients taking tamsulosin. Eur J Ophthalmol 2007; **17**: 909.

32. Bell C, Hatch W, Fischer H et al: Association between tamsulosin and serious ophthalmic adverse events in older men following cataract surgery. JAMA 2009; **116**: 425.

33. Cohen S, Werrmann J: Comparison of the effects of new specific azasteroid inhibitors of steroid 5 alpha-reductase on canine hyperplastic prostate: suppression of prostatic DHT correlated with prostate regression. Prostate 1995; **26**: 55.

34. Clark R, Hermann D, Cunningham G et al: Marked suppression of dihydrotestosterone in men with benign prostatic hyperplasia by dutasteride, a dual 5alpha-reductase inhibitor. J Clin Endocrinol Metab 2004; **89**: 2179.

35. Ju X, Wu H, Zhang W et al: The clinical efficacy of epristeride in the treatment of benign prostatic hyperplasia. Zhonghua Nan Ke Xue 2002; **8**: 42.

36. Andriole G, Bruchovsky N, Chung L et al: Dihydrotestosterone and the prostate: the scientific rationale for 5alpha-reductase inhibitors in the treatment of benign prostatic hyperplasia. J Urol 2004; **172**: 1399.

37. McConnell J, Wilson J, Goerge F et al: Finasteride, and inhibitor of 5♋-Reductase, suppresses prostatic dihydrotestosterone in men with benign prostatic hyperplasia. J Clin Endocrinol Metab 1992; **74**: 505.

38. Wurzel R, Ray P, Major-Walker K et al: The effect of dutasteride on intraprostatic dihydrotestosterone concentrations in men with benign prostatic hyperplasia. Prostate Cancer Prostatic Dis 2007; **10**: 149.

39. Bramson H, Hermann D, Batchelor K et al: Unique preclinical characteristics of GG745, a potent dual inhibitor of 5AR. J Pharmacol Exp Ther 1997; **282**: 1496.

40. Kramer B, Hagerty K, Justman S et al: Use of 5-α-Reductase Inhibitors for Prostate Cancer Chemoprevention: American Society of Clinical Oncology/American Urological Association 2008 Clinical Practice Guideline Summary. J Clin Oncol 2009; **27**: 1502.

41. Kramer B, Hagerty K, Justman S et al: Use of 5alpha-reductase inhibitors for prostate cancer chemoprevention: American Society of Clinical Oncology/American Urological Association 2008 Clinical Practice Guideline. J Urol 2009; **181**: 1642.

42. Gisleskog PO, Hermann D, Hammarlund-Udenaes M et al: The pharmacokinetic modelling of GI198745 (dutasteride), a compound with parallel linear and nonlinear elimination. Br J Clin Pharmacol 1999; **47**: 53.

43. Roehrborn C, Prajsner A, Kirby R et al: A double-blind placebo-controlled study evaluating the onset of action of doxazosin gastrointestinal therapeutic system in the treatment of benign prostatic hyperplasia. Eur Urol 2005; **48**: 445.

44. Roehrborn C, Lukkarinen O, Mark S et al: Long-term sustained improvement in symptoms of benign prostatic hyperplasia with the dual 5alpha-reductase inhibitor dutasteride: results of 4-year studies. BJU Int 2005; **96**: 572.

45. Barkin J, Guimaraes M, Jacobi G et al: Alpha-blocker therapy can be withdrawn in the majority of men following initial combination therapy with the dual 5alpha-reductase inhibitor dutasteride. Eur Urol 2003; **44**: 461.

46. Foley S, Soloman L, Wedderburn A et al: A prospective study of the natural history of hematuria associated with benign prostatic hyperplasia and the effect of finasteride. J Urol 2000; **163**: 496.

47. Haggstrom S, Torring N, Moller K et al: Effects of finasteride on vascular endothelial growth factor. Scand J Urol Nephrol 2002; **36**: 182.

48. Pareek G, Shevchuk M, Armenakas N et al: The effect of finasteride on the expression of vascular endothelial growth factor and microvessel density: a possible mechanism for decreased prostatic bleeding in treated patients. J Urol 2003; **169**: 20.

49. Canda AE, Mungan MU, Yilmaz O et al: Effects of finasteride on the vascular surface density, number of microvessels and vascular endothelial growth factor expression of the rat prostate. Int Urol Nephrol 2006; **38**: 275.

50. Puchner PJ, Miller MI: The effects of finasteride on hematuria associated with benign prostatic hyperplasia: a preliminary report [see comments]. Journal. of. Urology. 1995; **154**: 1779.

51. Miller M, Puchner P: Effects of finasteride on hematuria associated with benign prostatic hyperplasia: long-term follow-up. Urology 1998; **51**: 237.

52. Sieber PR, Rommel FM, Huffnagle HW et al: The treatment of gross hematuria secondary to prostatic bleeding with finasteride. J Urol 1998; **159**: 1232.

53. Delakas D, Lianos E, Karyotis I et al: Finasteride: a long-term follow-up in the treatment of recurrent hematuria associated with benign prostatic hyperplasia. Urol Int 2001; **67**: 69.

54. Hahn R, Fagerstrom T, Tammela T et al: Blood loss and postoperative complications associated with transurethral resection of the prostate after pretreatment with dutasteride. BJU Int 2007; **99**: 587.

55. Boccon-Gibod L, Valton M, Ibrahim H et al: Effect of dutasteride on reduction of intraoperative bleeding related to transurethral resection of the prostate. Prog Urol 2005; **15**: 1085.

56. Sandfeldt L, Bailey D, Hahn R: Blood loss during transurethral resection of the prostate after 3 months of treatment with finasteride. Urology 2001; **58**: 972.

57. Donohue J, Sharma H, Abraham R et al: Transurethral prostate resection and bleeding: a randomized, placebo controlled trial of role of finasteride for decreasing operative blood loss. J Urol 2002; **168**: 2024.

58. Crea G, Sanfilippo G, Anastasi G et al: Pre-surgical finasteride therapy in patients treated endoscopically for benign prostatic hyperplasia. Urol Int 2005; **74**: 51.

59. Ozdal O, Ozden C, Benli K et al: Effect of short-term finasteride therapy on peroperative bleeding in patients who were candidates for transurethral resection of the prostate (TUR-P): a randomized controlled study. Prostate Cancer Prostatic Dis 2005; **8**: 215.

60. Lund L, Moller Ernst-Jensen K, torring N et al: Impact of finasteride treatment on perioperative bleeding before transurethral resection of the prostate: a prospective randomized study. Scand J Urol Nephrol 2005; **39**: 160.

61. Caulfield M, Birdsall N: International Union of Pharmacology. XVII. Classification of muscarinic acetylcholine receptors. Pharmacol Rev 1998; **50**: 279.

62. Kaplan S, Roehrborn C, Rovner E et al: Tolterodine and tamsulosin for treatment of men with lower urinary tract symptoms and overactive bladder: a randomized controlled trial. JAMA 2006; **296**: 2319.

63. Abrams P, Kaplan S, De Koning Gans H et al: Safety and tolerability of tolterodine for the treatment of overactive bladder in men with bladder outlet obstruction. J Urol 2006; **175**: 999.

64. Athanasopoulos A, Gyftopoulos K, Giannitsas K et al: Combination treatment with an alpha-blocker plus an anticholinergic for bladder outlet obstruction: a prospective, randomized, controlled study. J Urol 2003; **169**: 2253.

65. Hofner K, Burkart M, Jacob GJ, U: Safety and efficacy of tolterodine extended release in men with overactive bladder symptoms and presumed non-obstructive benign prostatic hyperplasia. World J Urol 2007; **25**: 627.

66. Wilt T, Ishani A, Stark G et al: Saw palmetto extracts for treatment of benign prostatic hyperplasia: a systematic review. JAMA 1998; **280**: 1604.

67. Wilt T, Ishani A, Rutks I et al: Phytotherapy for benign prostatic hyperplasia. Public Health Nutr 2000; **3**: 459.

68. Bent S, Kane C, Shinohara K et al: Saw palmetto for benign prostatic hyperplasia. N Engl J Med 2006; **354**: 557.

69. Shi R, Xie Q, Gang X et al: Effect of saw palmetto soft gel capsule on lower urinary tract symptoms associated with benign prostatic hyperplasia: a randomized trial in Shanghai, China. J Urol 2008; **179**: 610.

70. Cimentepe E, Unsal A, Saglam R: Randomized clinical trial comparing transurethral needle ablation with transurethral resection of the prostate for the treatment of benign prostatic hyperplasia: results at 18 months. J Endourol 2003; **17**: 103.

71. Roehrborn C, Burkhard F, Bruskewitz R et al: The effects of transurethral needle ablation and resection of the prostate on pressure flow urodynamic parameters: analysis of the United States randomized study. J Urol 1999; **162**: 92.

72. Hindley R, Mostafid A, Brierly R et al: The 2-year symptomatic and urodynamic results of a prospective randomized trial of interstitial radiofrequency therapy vs transurethral resection of the prostate. BJU Int 2001; **88**: 217.

73. Dall'Oglio M, Srougi M, Antunes A et al: An improved technique for controlling bleeding during simple retropubic prostatectomy: a randomized controlled study. BJU Int 2006; **98**: 384.

74. Semmens J, Wisniewski Z, Bass A et al: Trends in repeat prostatectomy after surgery for benign prostate disease: application of record linkage to healthcare outcomes. BJU Int 1999; **84**: 972.

75. Kiptoon D, Magoha GO, FA: Early postoperative outcomes of patients undergoing prostatectomy for benign prostatic hyperplasia at Kenyatta National Hospital, Nairobi. East Afr Med J 2007; **84**: S40.

76. Helfand B, Mouli S, Dedhia R et al: Management of lower urinary tract symptoms secondary to benign prostatic hyperplasia with open prostatectomy: results of a contemporary series. J Urol 2006; **176**: 2557.

77. Condie J, Jr, Cutherell L et al: Suprapubic prostatectomy for benign prostatic hyperplasia in rural Asia: 200 consecutive cases. Urology 1999; **54**: 1012.

78. Tubaro A, Carter S, Hind A et al: A prospective study of the safety and efficacy of suprapubic transvesical prostatectomy in patients with benign prostatic hyperplasia. J Urol 2001; **166**: 172.

79. Hill A, Njoroge P: Suprapubic transvesical prostatectomy in a rural Kenyan hospital. East Afr Med J 2002; **79**: 65.

80. Gacci M, Bartoletti R, Figlioli S et al: Urinary symptoms, quality of life and sexual function in patients with benign prostatic hypertrophy before and after prostatectomy: a prospective study. BJU Int 2003; **91**: 196.

81. Adam C, Hofstetter A, Deubner J et al: Retropubic transvesical prostatectomy for significant prostatic enlargement must remain a standard part of urology training. Scand J Urol Nephrol 2004; **38**: 472.

82. Varkarakis I, Kyriakakis Z, Delis A et al: Long-term results of open transvesical prostatectomy from a contemporary series of patients. Urology 2004; **64**: 306.

83. Sotelo R, Spaliviero M, Garcia-Segui A et al: Laparoscopic retropubic simple prostatectomy. J Urol 2005; **173**: 757.

84. Hochreiter W, Thalmann G, Burkhard F et al: Holmium laser enucleation of the prostate combined with electrocautery resection: the mushroom technique. J Urol 2002; **168**: 1470.

85. Hurle R, Vavassori I, Piccinelli A et al: Holmium laser enucleation of the prostate combined with mechanical morcellation in 155 patients with benign prostatic hyperplasia. Urology 2002; **60**: 449.

86. Kuntz R, Lehrich K: Transurethral holmium laser enucleation versus transvesical open enucleation for prostate adenoma greater than 100 gm.: a randomized prospective trial of 120 patients. J Urol 2002; **168**: 1465.

87. Das A, Kennett K, Fraundorfer M et al: Holmium laser resection of the prostate (HoLRP): 2-year follow-up data. Tech Urol 2001; **7**: 252.

88. Gilling P, Kennett K, Fraundorfer M: Holmium laser resection v transurethral resection of the prostate: results of a randomized trial with 2 years of follow-up. J Endourol 2000; **14**: 757.

89. Gilling P, Cass C, Cresswell M et al: Holium laser resection of the prostate: preliminary results of a new method for the treatment of benign prostatic hyperplasia. Urology 1996; **47**: 48.

90. Gilling P, Mackey M, Cresswell M et al: Holmium laser versus transurethral resection of the prostate: a randomized prospective trial with 1-year followup. J Urol 1999; **162**: 1640.

91. Carter A, Sells H, O'Boyle P: High-power KTP laser for the treatment of symptomatic benign prostatic enlargement. BJU Int 1999; **83**: 857.

92. Malek R, Kuntzman R, Barrett D: High power potassium-titanyl-phosphate laser vaporization prostatectomy. J Urol 2000; **163**: 1730.

93. Fu W, Hong B, Yang Y et al: Photoselective vaporization of the prostate in the treatment of benign prostatic hyperplasia. Chin Med J (Engl) 2005; **118**: 1610.

94. Malek R, Kuntzman R, Barrett D: Photoselective potassium-titanyl-phosphate laser vaporization of the benign obstructive prostate: observations on long-term outcomes. J Urol 2005; **174**: 1344.

95. Ruszat R, Wyler S, Forster T et al: Safety and effectiveness of photoselective vaporization of the prostate (PVP) in patients on ongoing oral anticoagulation. Eur Urol 2007; **51**: 1031.

96. Orandi A: Transurethral incision of prostate (TUIP): 646 cases in 15 years—a chronological appraisal. Br J Urol 1985; **57**: 703.

97. Saporta L, Aridogan I, Erlich N et al: Objective and subjective comparison of transurethral resection, transurethral incision and balloon dilatation of the prostate. A prospective study. Eur Urol 1996; **29**: 439.

98. Sparwasser C, Reihmann M, Knes J et al: Long-term results of transurethral prostate incision (TUIP) and transurethral prostate resection (TURP). A prospective randomized study. Urologe A 1995; **34**: 153.

99. Reihmann M, Knes J, Heisey D et al: Transurethral resection versus incision of the prostate: a randomized, prospective study. Urology 1995; **45**: 768.

100. Wasson J, Reda D, Bruskewitz R et al: A comparison of transurethral surgery with watchful waiting for moderate symptoms of benign prostatic hyperplasia. The Veterans Affairs Cooperative Study Group on Transurethral Resection of the Prostate. N Engl J Med 1995; **332**: 75.

101. Baumert H, Ballaro A, Dugardin F et al: Laparoscopic versus open simple prostatectomy: a comparative study. J Urol 2006; **175**: 1691.

102. Mullins C, Kaplan S: A new vision for the study of benign prostate disease: the NIDDK prostate research strategic plan. J Urol 2009; **181**: 963.

103. NURA: National Urology Research Agenda: American Urological Assocation Foundation, 2010

Chapter 2: Methodology

TABLE OF CONTENTS

Introduction

The clinical recommendations presented in this report are based on a systematic review and synthesis of the clinical literature on current and emerging therapies for the treatment of benign prostatic hyperplasia (BPH). The methodology follows the same process used in the development of the 2003 Guideline and, as such, did not include an evaluation of the strength of the body of evidence as will be done in future Guidelines produced by the American Urological Association (AUA).

The expert Panel examined three overarching key questions for pharmacotherapeutic, surgical, and alternative medicine therapies:

1. What is the comparative efficacy and effectiveness of currently available and emerging treatments for BPH? What are the predictors of beneficial effects from treatments?
2. What are the adverse events associated with each of the included treatments and how do the adverse events compare across treatments?
3. Are there subpopulations in which the efficacy, effectiveness, and adverse event rates vary from those in general populations? Efficacy measures the extent to which an intervention produces a beneficial result under ideal conditions, such as clinical trials, whereas effectiveness measures the extent to which an intervention in ordinary conditions produces the intended result.

Study Selection and Data Abstraction

To identify relevant citations, the AUA research librarian searched Ovid Medline® from January 1, 1999 through February 28, 2008. The search period overlapped with that of the prior AUA Guideline for BPH (2003) in order to capture any citations that were in the process of being indexed for Medline prior to June 30, 1999. The search strategy included the Medical Subject Headings (MeSH) for BPH and LUTS: "Prostatic Hyperplasia"[MesH] AND Benign NOT Case reports NOT Editorials NOT Comments NOT Abstracts NOT Letters to editor NOT Author replies (Limits: Entrez Date from 2006/06/01 to 2008/03/31, Humans, Male, English); "Urinary Tract"[MeSH] AND Symptoms AND Lower NOT Case reports NOT Editorials NOT Comments NOT Abstracts NOT Letters to editor NOT Author replies (Limits: Entrez Date from 2006/06/01 to 2008/04/22, Humans, Male, English).

Study inclusion and exclusion criteria (Table 2.1) were determined by the Panel chair, co-chair, and the methodologist in order to clearly define the scope and to achieve a reproducible and explicit process. All titles and abstracts from the bibliographic searches were reviewed by the Panel chair and the co-chair and the relevant articles were selected and then the full-text reviewed for inclusion. To update the search from January 2007 through February 2008, titles, abstracts and full-text were dual reviewed by either the Panel chair or co-chair and the methodologist, and consensus was achieved at the full-text level. Descriptive data were abstracted into Microsoft Word and numeric data into Microsoft Excel by a reviewer on the methodologist's staff and checked by a second reviewer. Abstracted data included study design, setting, population characteristics (including, age, AUA-Symptom Index (SI) score, Quality of Life (QoL) question, peak urine flow [Qmax; mL/sec], and for procedural studies, prostate volume and percentage of subjects in urinary retention) and details of the intervention

(device, procedure, drug dosage and formulation). The Panel chair and co-chair selected outcomes for abstraction and synthesis that were relevant to the clinician such as urinary flow and volume outcomes, as well as outcomes important to patients, such as symptoms and QoL. Also abstracted were data on adverse events for both pharmacotherapy and procedural interventions. For the latter, intraoperative, peri-operative, as well as short-term (<30 days) and longer-term adverse events were examined.

Table 2.1 Study inclusion and exclusion criteria

Domain	Inclusion criteria	Exclusion criteria
Population	- Men ≥ 45 years of age without significant risk of non-benign prostatic hyperplasia (BPH) causes of lower urinary tract symptoms (LUTS)	- Men with polyuria, underlying neurologic disease, or prior lower urinary tract disease - Men <45 years of age with voiding dysfunction
Interventions	**Procedures** 1. Open prostatectomy: transvesical, perineal, retropubic, suprapubic 2. Laparoscopic prostatectomy 3. Transurethral procedures a. Laser coagulation b. Holmium laser resection/enucleation (HoLRP; HoLEP) c. Vaporization of tissue i.KTP green light laser photoselective vaporization of the prostate (KTP-PVP) ii.Thulium: YAG laser iii.PlasmaKinetic vaporization of the prostate (PKVP) iv. Transurethral vaporization of the prostate (TUVP)	**Procedures** 1. Water-induced thermal therapy 2. Plasmakinetic Tissue Management System 3. Interstitial laser coagulation (ILC) 4. High intensity focused ultrasound (HIFU) 5. Absolute ethanol injection 6. Botox 7. Stent placement (e.g., UroLume®) 8. Balloon dilation 9. Rotoresection of the prostate

	v.Holmium laser ablation of prostate (HoLAP) d. Transurethral resection of the prostate (TURP): monopolar, bipolar e. Transurethral incision of the prostate (TUIP) f. Transurethral radiofrequency needle ablation (TUNA) g. Thermal-based therapies i.Transurethral microwave treatments 1. CoreTherm® 2. Prostatron® 3. Targis® 4. TherMatrx® 5. Prolieve™ **Pharmacotherapy** 1. Anticholinergic agents a. Monotherapy: tolterodine b. Combination therapy with alpha blockers 2. Alpha-adrenergic blockers: alfuzosin, doxazosin, tamsulosin, terazosin, 3. 5 alpha-reductase inhibitors (5-ARIs): dutasteride, finasteride	10. Nd:YAG laser 11. Visual laser ablation of the prostate (VLAP), contact laser ablation of the prostate (CLAP) **Drugs** 1. Naftopidil (investigational) 2. Silodosin* 3. Immediate-release alfuzosin (2.5 mg TID) 4. Sustained release alfuzosin (5 mg BID) 5. Alfuzosin 15 mg QD (10 mg QD) 6. Tamsulosin oral controlled absorption system 7. Antidiuretic hormone (vasopressin)

	4. Combination therapy of alpha blockers and 5-ARIs **Complementary and Alternative Medicines (CAM)** a. Saw palmetto b. Urtica dioica c. Combination phytotherapies **Watchful waiting**	
Comparators	1. Interventions will be compared among each other, including the strategy of watchful waiting. 2. Different techniques for the same surgical procedure will be compared 3. Dose-ranging studies for pharmacotherapeutic agents and CAM	1. Studies with an included intervention compared to another intervention not included in this review
Efficacy and effectiveness outcomes	1. Morbidity 2. Mortality 3. Pressure, flow, volume a. Voided volume b. Maximum flow rate c. Post-void residual d. Prostate volume measured by transrectal ultrasonography or magnetic resonance imaging	1. Pressure, flow volume a. Percent of residual (%) b. Bladder capacity at first desire to void c. Bladder capacity at strong desire to void d. Detrusor pressure at cystometric capacity e. Bladder compliance f. Detrusor opening

	e. Transition zone prostate volume f. Detrusor pressure at maximum flow 4. Symptoms a. American Urological Association Symptom Index/International Prostate Symptom Score (AUA-SI/IPSS) (total) b. Boyarsky symptom index c. Madsen-Iversen symptom index d. Other study-specific scores 5. Quality of life, function a. Disease-specific measures i. Quality of life measure from IPSS ii. BPH impact index iii. Other custom measures b. Generic measures 6. Other: a. Prostate-specific antigen b. Prostate cancer on histology c. Resected weight	pressure g. Amplitude of overactive detrusor contractions h. Invasive pressure-flow studies i. Prostate volume assessed by digital rectal exam 2. Symptoms a. Partial symptom scores b. Symptom diaries with unvalidated scoring systems 3. Other a. Dihydrotestosterone b. Estradiol c. Blood pressure

Harms and withdrawals	1. Total withdrawals or loss to follow-up 2. Withdrawals due to adverse effects 3. Mortality 4. Surgical complications i. Intraoperative ii. Immediate postoperative complications (<24 h) iii. Short-term complications (<30 d) iv. Long-term complications 5. Secondary procedures 6. Sexual function 7. Drug adverse events a. Symptomatic hypotension; postural change, dizziness b. Sexual function c. Significant morbidity	1. Intraoperative and immediate postoperative a. Serum sodium b. Expired ethanol levels c. Irrigation fluid used
Setting	There were no restrictions based on geographic location of the study or on other study setting characteristics.	
Study design	1. Key Question 1: efficacy/ effectiveness: a. Pharmacotherapy, CAM: randomized controlled trials (RCTs) and controlled comparative trials (CCTs) b. Procedures, watchful waiting: RCTs, CCTs, observational studies	1. Case reports for both benefit and adverse events

	2. Key Question 2: Adverse events: RCTs, CCTs, observational studies 3. Key Question 3: Subpopulations: study designs as noted above Minimum duration of follow-up 1. Procedures: no restrictions 2. Pharmacotherapy and alternative and CAM: 12 weeks 3. Watchful waiting: 12 weeks	
Publication characteristics	1. Studies in which the full text is available in English	1. Studies with an English abstract but non-English full text 2. Studies not published in English 3. Studies where publication is available in abstract form only 4. Letters, commentaries, opinion pieces 5. Theses and dissertations 6. Narrative reviews

*Silodosin had been approved by the U.S. Food and Drug Administration but there were no relevant published articles in the peer-reviewed literature prior to the cut-off date for the literature search.

Data Synthesis

A qualitative analysis of the available evidence was performed on all interventions and outcomes. A narrative synthesis was presented, along with in-text tables summarizing important study and population characteristics, outcomes and adverse events. Forest plots of study effect sizes were prepared when there were at least three to four points for an intervention. Studies were stratified by

study design, comparator, follow-up interval, and intensity of intervention. Meta-analyses (quantitative synthesis) of outcomes of randomized controlled trials were planned; however, data were either sparse (i.e., there were small numbers of studies in certain categories), or not sufficiently homogeneous for the pooled effect to be meaningful.

The studies varied with respect to patient selection; randomization; blinding mechanism; run-in periods; patient demographics, comorbidities, prostate characteristics, and symptoms; drug doses; other intervention characteristics; comparators; rigor of follow-up; follow-up intervals; trial duration; timing of the trial; suspected lack of applicability to current practice in the United Sates; and techniques of outcomes measurement. These data limitations affected the quality of the materials available for review, making formal meta-analysis impractical or futile. Thus, the Panel and extractors were required to review the material in a systematic fashion rather than one with statistical rigor.

Detailed efficacy, effectiveness and complications outcomes are found in Chapter 3 of the guideline.

Guideline Development and Approvals

The treatment guideline was drafted by the Panel based on the outcomes data and tempered by the Panel's expert opinion. As in the previous Guideline, the guideline statements were graded with respect to the degree of flexibility in their application. The three levels are essentially the same as in the previous guideline. A "standard" has the least flexibility as a treatment policy; a "recommendation" has significantly more flexibility; and an "option" is even more flexible. These three levels of flexibility are defined as follows:

1. **Standard**: A guideline statement is a standard if: (1) the health outcomes of the alternative interventions are sufficiently well known to permit meaningful decisions and (2) there is virtual unanimity about which intervention is preferred.
2. **Recommendation**: A guideline statement is a recommendation if: (1) the health outcomes of the alternative intervention are sufficiently well known to permit meaningful decisions, and (2) an appreciable but not unanimous majority agrees on which intervention is preferred.
3. **Option**: A guideline statement is an option if: (1) the health outcomes of the interventions are not sufficiently well known to permit meaningful decisions, or (2) preferences are unknown or equivocal. Options can exist because of insufficient evidence or because patient preferences are divided and may/should influence choices made.

The draft was reviewed by the Panel, examined by 69 peer reviewers, and approved by the Practice Guidelines Committee and the Board of Directors of the AUA. A full description of the methodology is presented in Chapter 2 of this guideline. The Guideline is published on the AUA website (http://www.auanet.org). A version of Chapter 1 will be published in *The Journal of Urology.*

Conflict of Interest

All authors, staff and consultants self-reported potential financial conflicts of interest in accordance with AUA policy. Disclosures were made available to all Panel members prior to meetings, and at the beginning of each meeting, AUA staff reviewed the AUA conflict of interest policy, which requires recusal of individuals with potential conflict of interest.

Chapter 3: Results of the Treatment Outcomes Analyses

TABLE OF CONTENTS

Introduction

It is the hope that this clinical Guideline will provide a useful reference on the effective evidence-based management of male lower urinary tract symptoms (LUTS) secondary to benign prostatic hyperplasia (BPH). The current Guideline reviews a number of important aspects in the management of LUTS presumed secondary to BPH (LUTS/BPH) in our male population as an update to the 2003 AUA Guideline on BPH. It speaks to diagnostic tests available to identify the underlying pathophysiology and help management of symptoms. Pharmacotherapy and watchful waiting as well as lifestyle issues are addressed, including complementary and alternative medicines (CAM). The current literature for standard surgical options, as well as that on minimally invasive procedures is similarly reviewed. Despite the rigorous methodology and detail used in these various areas, there are some areas where data could not be found (randomized controlled trials [RCTs]) for some topics. In some situations, the Panel, not surprisingly, was forced to recommend best practices based on expert opinion.

The expert Panel examined three overarching key questions for current and emerging pharmacotherapeutic, surgical, and alternative medicine therapies: (1) What are the comparative efficacy and effectiveness of currently available and emerging treatments for BPH? What are the predictors of beneficial effects from treatments? (2) What are the adverse events associated with each of the included treatments and how do the adverse events compare across treatments? (3) Are there subpopulations in which the efficacy, effectiveness and adverse event rates vary from those in general populations?

A qualitative analysis of the available evidence was performed on all interventions and outcomes. A narrative synthesis was presented along with in-text tables summarizing important study and population characteristics, efficacy and effectiveness outcomes and safety outcomes. Forest plots of study effect sizes were prepared when there were at least three to four points for an intervention. Studies were stratified by study design, comparator, follow-up interval and intensity of intervention. Meta-analyses (quantitative synthesis) of outcomes of RCTs were planned; however, data were either sparse (i.e., there were small numbers of studies in certain categories), or not sufficiently homogeneous for the pooled effect to be meaningful. The studies varied with respect to patient selection; randomization; blinding mechanism; run-in periods; patient demographics, comorbidities, prostate characteristics and symptoms; drug doses; other intervention characteristics; comparators; rigor of follow-up; follow-up intervals; trial duration; timing of the trial; suspected lack of applicability to current practice in the United Sates; and techniques of outcomes measurement. These data limitations affected the quality of the materials available for review, making formal meta-analysis impractical or futile. The resulting evidence tables for each treatment alternative evaluated are presented in Appendix A8.

Based on the evidence and Panel expertise guideline statements were developed by the Panel and are presented in Chapter 1. Statements that are new or have been updated from the 2003 Guideline are outlined in Table 3.1.

Table 3.1. New and updated guideline statements in the 2010 Guideline

Agent/Therapy	Guideline Statement
Alpha-adrenergic Blockers	***Option:*** **Alfuzosin, doxazosin, tamsulosin, terazosin are appropriate and effective treatment alternatives for patients with bothersome, moderate to severe LUTS secondary to BPH (AUA Symptom Index score ≥8). Although there are slight differences in the adverse events profiles of these agents, all four appear to have equal clinical effectiveness.*** [Based on review of the data and Panel consensus.] *Silodosin was approved by the FDA but there were no published articles in the peer- reviewed literature prior to the cut-off date for the literature search.
Intraoperative Floppy Iris Syndrome and Alpha blocker Use	***Recommendation:*** **Men with LUTS secondary to BPH for whom alpha blocker therapy is offered should be asked about planned cataract surgery. Men with planned cataract surgery should avoid the initiation of alpha blockers until their cataract surgery is completed.** [Based on review of the data and Panel consensus.] ***Recommendation:*** **In men with no planned cataract surgery, there are insufficient data to recommend withholding or discontinuing alpha blockers for bothersome LUTS secondary to BPH.** [Based on review of the data and Panel consensus.]
5-Alpha-reductase Inhibitors (5-ARIs) for Other Indications	<u>Hematuria</u> ***Option:*** **Finasteride is an appropriate and effective treatment alternative in men with refractory hematuria presumably due to prostatic bleeding (i.e., after exclusion of any other causes of hematuria). A similar level of evidence concerning dutasteride was not reviewed; it is the expert**

	opinion of the Panel that dutasteride likely functions in a similar fashion. [Based on review of the data and Panel consensus.] <u>Prevention of Bleeding During TURP</u> ***Option:*** **Overall, there is insufficient evidence to recommend using 5-ARIs preoperatively in the setting of a scheduled TURP to reduce intraoperative bleeding or reduce the need for blood transfusions.** [Based on review of the data and Panel consensus.]
Anticholinergic Agents	***Option:*** **Anticholinergic agents are appropriate and effective treatment alternatives for the management of LUTS secondary to BPH in men without an elevated post void residual and when LUTS are predominantly irritative.** [Based on Panel consensus.] ***Recommendation:*** **Prior to initiation of anticholinergic therapy, baseline post-void residual (PVR) urine should be assessed. Anticholinergics should be used with caution in patients with a PVR greater than 250 to 300 mL.** [Based on Panel consensus.]
Complementary and Alternative Medicines (CAM)	***Recommendation:*** **No dietary supplement, combination phytotherapeutic agent, or other nonconventional therapy is recommended for the management of LUTS secondary to BPH. This includes saw palmetto and Urtica dioica.** [Based on review of the data and Panel consensus.]

Minimally Invasive Therapies	***Standard:*** **Safety recommendations for the use of transurethral needle ablation (TUNA) of the prostate and transurethral microwave thermotherapy published by the U.S. Food and Drug Administration should be followed.** http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/default.htm [Based on review of the data.]
Transurethral Needle Ablation of the Prostate and Transurethral Microwave Thermotherapy	***Option:*** **TUNA and and Transurethral Microwave Thermotherapy (TUMT) of the prostate is an appropriate and effective treatment alternative for bothersome moderate or severe LUTS secondary to BPH.** [Based on review of the data and Panel consensus.]
Laser Therapies	***Option:*** **Transurethral laser enucleation (holmium laser resection of the prostate [HoLRP], holmium laser enucleation of the prostate [HoLEP]), transurethral side firing laser ablation (holmium laser ablation of the prostate [HoLAP] and photoselective vaporization [PVP]) are appropriate and effective treatment alternatives to transurethral resection of the prostate and open prostatectomy in men with moderate to severe LUTS and/or who are significantly bothered by these symptoms. The choice of approach should be based on the patient's presentation, anatomy, the surgeon's level of training and experience and discussion of the potential benefit and risks for complications. Generally, transurethral laser approaches have been associated with shorter catheterization time and length of stay with comparable improvements in LUTS. There is a decreased risk of the perioperative complication of transurethral resection syndrome. Information concerning certain outcomes, including retreatment and urethral strictures, is limited due to short follow-up. As**

	with all new devices, comparison of outcomes between studies should be considered cautiously given the rapid evolution in technologies and power levels. Emerging evidence suggests a possible role of transurethral enucleation and laser vaporization as options for men with very large prostates (> 100 g). There are insufficient data on which to base comments on bleeding. [Based on review of the data and Panel consensus.]
Transurethral Resection of the Prostate (TURP)	***Option:*** **TURP is an appropriate and effective primary alternative for surgical therapy in men with moderate to severe LUTS and/or who are significantly bothered by these symptoms. The choice of a monopolar or bipolar approach should be based on the patient's presentation, anatomy, the surgeon's experience and discussion of the potential risks and likely benefits.** [Based on review of the data and Panel consensus.]
Laparoscopic and Robotic Prostatectomy	***Option:*** **Men with moderate to severe LUTS and/or who are significantly bothered by these symptoms can consider a laparoscopic or robotic prostatectomy. There are insufficient published data on which to base a treatment recommendation.** [Based on review of the data and Panel consensus.]

Types of treatment outcomes

Two types of treatment outcomes -- efficacy and adverse events -- were evaluated in the development of this Guideline. Because efficacy outcomes were measured on a scale that could change with treatment and time course, while adverse events were measured as occurrences, restrictions were imposed on the data requirements and the analytic methods used for each type of outcome.

Efficacy and Effectiveness Outcomes

Efficacy outcome measures evaluate the efficacy of the treatment in relieving the symptoms or sequelae of BPH. In the past, the direct outcomes (e.g., those that patients can directly perceive) of BPH therapies have been measured in a qualitative fashion (e.g., as improved, unchanged, or worsened) and/or by global subjective assessment either by physicians or patients. More recently, quantitative measurement tools have been developed and validated. Symptom scores and quality of life (QoL) questionnaires are examples of instruments that provide an objective assessment of subjective phenomena and allow a numerical estimate of the severity of LUTS, the bother induced, interference with daily activities and impact on disease-specific QoL.

Symptom Scores

A variety of symptom scores utilized to evaluate BPH therapies are discussed below and are presented in Appendices A5 and A6. The current international standard, the American Urological Association Symptom Index/International Prostate Symptom Score (AUA-SI/I-PSS), is in widespread use.

Validated Symptom Scores

The AUA commissioned the development of a quantitative symptom severity and frequency score. The resulting instrument is a seven-question questionnaire with a response scheme from 0 to 5 for each question for a total score ranging from zero to 35 in the order of increasing symptom severity and frequency. Symptoms of both irritative and obstructive LUTS are addressed. This AUA-SI has been culturally and linguistically validated, has been translated into many languages and is identical to the first seven symptom questions of the I-PSS which is used worldwide.

The Danish Prostatic Symptom Score is another validated symptom scoring instrument that incorporates the concept of bother due to symptoms in addition to simple enumeration of symptom severity and frequency.[1]

Modified Symptom Scores

Modified symptom scores are slight modifications of recognized, but not necessarily validated, scoring systems. An example of a modified scoring system that has been utilized extensively in trials of the 5-ARI, finasteride, is the Quasi-AUA-SI. Only studies that employed complete symptom scores were included; those that used partial scales (e.g., bothersomeness or irritability scales) were excluded.

Studies using the AUA-SI or I-PSS with scoring based on ranges other than zero to 35 were rescaled for consistency.

Quality of Life Scoring Instruments

Quality of life scoring instruments can be classified under two broad categories: (1) generic instruments, such as the SF-36, that do not focus on the impact of a particular disease state or a set of symptoms and (2) disease-specific QoL instruments, which measure the impact of specific diseases or sets of symptoms on the health of a given individual. Of all generic and disease-specific QoL scoring instruments, the BPH Impact Index (BPH II) and the Disease Specific QoL Question have been validated and were used herein.

The BPH II was developed and validated by the AUA Measurement Committee (1995) with the objective of determining the degrees to which urinary problems affect various domains of health and impact the perception of health in a given individual. Three questions are scored on a scale from zero to three and one question on a scale from zero to four, for a total score ranging from zero to 13 in order of increasing severity.[2] The BPH II has been used in studies of medical as well as many invasive therapies, thus providing comparative data.

A single global question complements the seven individual symptom severity and frequency questions of the AUA-SI by adding a disease specific QoL (called the Disease Specific QoL Question) dimension. Clearly, a single question cannot possibly capture the global impact of LUTS on the quality of an individual's life; however, it has been accepted as a valuable beginning for a patient/physician conversation regarding this issue. The question simply asks, "If you were to spend the rest of your life with your urinary symptoms the way they are right now, how would you feel about this?" The answer scheme ranges from "delighted" to "terrible," on a score from zero to six, in the order of increasing severity.

Peak Urinary Flow Rate

The urinary flow rate is the strength or intensity of the urinary stream over time determined by measurement of the voided volume and the voiding or micturition time. Units are expressed in mL/sec. Dividing the voided volume by the voiding or micturition time yields the average urinary flow rate (e.g., 200 mL [voided volume] divided by 20 seconds [voiding time] yields an average urinary flow rate of 10 mL/sec). The most commonly reported measure is the peak or maximal urinary flow rate (Qmax). This parameter, however, is nonspecific in that Qmax decreases with advancing age in both sexes. In addition, a lower-than-expected urinary flow rate can be caused by bladder muscle weakness, subvesical or bladder outlet obstruction (BOO), or urethral stricture.

In the interpretation of the Qmax, a minimum voided volume is usually required for the flow rate recording to be valid. A flow rate of less than 10 mL/sec is more suggestive of an obstructed state, while a flow rate above 15 mL/sec is more suggestive of a nonobstructed state. Flow rates between 10

and 15 mL/sec are considered equivocal. The interpretation of this measurement is based on the correlation between free flow rates and invasive pressure-flow studies which suggest that the probability of obstruction is very low if the maximum flow rate is over 15 mL/sec, while the probability is relatively high if the maximum flow rate is under 10 mL/sec.

Unfortunately, Qmax correlates poorly with subjective symptoms such as severity and frequency of bother, QoL, residual urine or prostate size. Peak urinary flow is a weak, patient-oriented outcome in that the patient only marginally experiences flow rate differences (primarily based on urination time). Although Qmax is not particularly useful from a diagnostic point of view, it is recommended as an optional test prior to treatment discussion because the result may predict the natural history as well as the response to certain therapeutic interventions. The Panel elected to include this outcome in the analysis because repeated urinary flow rate recordings are useful for patient follow-up and in comparing treatment outcomes among trials using the same or different treatments.

Efficacy Outcomes Not Analyzed

Although initially considered for review, several efficacy and effectiveness outcomes were excluded from the final analysis as part of the 2010 BPH Guideline. These comprised the following urodynamic parameters: invasive pressure flow studies, percent (%) of residual volume voided, bladder capacity at first desire/strong desire to void, detrusor pressure at cystometric capacity, bladder compliance, detrusor opening pressure and the amplitude of overactive detrusor contractions. There were several reasons for their elimination, including concerns about test-retest reproducibility, predictability of long-term outcomes, controversy about the proper interpretations of measurement, lack of Panel consensus, applicability to general LUTS/BPH patients and a small number of articles for review.

Several papers reported on prostate volume as measured by digital rectal exam (DRE). Such outcomes were rejected because estimating prostate size by DRE is notoriously unreliable. Correlation coefficients between DRE and transrectal ultrasound (TRUS) measurements vary widely from 0.4 to 0.9 and unfortunately greater experience in performing this measurement does not necessarily lead to greater accuracy, although training with a dedicated model may improve precision.[3, 4] In general, the volume of smaller prostates is overestimated and of larger glands is underestimated with the degree of underestimation increasing with increasing actual size.

Symptom scores using only portions of validated questionnaires were excluded because of concerns about applicability, validation and interpretation of results. Similarly, symptom diaries with unvalidated scoring systems were also excluded. Biologic measures of dihydrotestosterone (DHT), estradiol and blood pressure were excluded because of concerns about clinical utility and applicability, laboratory assay variability, predictability of long-term outcomes and a small number of articles for review.

Safety Outcomes

The adverse events outcomes include side effects and complications of treatment and disease progression (e.g., development of urinary retention). Adverse events have been grouped together since there were no consistent reporting standards or naming standards for such events.

Watchful Waiting

The expectant management of LUTS/BPH is defined as "watchful waiting or active surveillance". Many men with BPH and LUTS do not require treatment because their symptoms are not significantly interfering with their QoL. Moreover, progression of symptoms or deterioration of QoL occurs only in a portion of men and treatment intervention is still effective, even when delayed. Watchful waiting studies, like the Veterans Affairs Cooperative Trial (VA CO-OP)[5], demonstrate slight symptom improvement in up to one third of men. However, the magnitude of the symptom improvement is small. Even placebo, arguably more effective than watchful waiting, produces no more than a one to two point mean improvement in symptom score in men followed for four years.[6]

Acute urinary retention (AUR) and invasive treatment occur in a certain subset of men followed conservatively. These complications are more frequent in men with larger prostates and higher serum prostate-specific antigen (PSA) levels than in other men. For example, men with a PSA of 3.3 ng/mL or greater have approximately a 5% annual risk of AUR or surgery compared to less than 2% annual risk for men with a PSA less than 1.3 ng/mL. Even in the highest risk groups, not all men develop AUR or require surgery.[6, 7] Therefore, serum PSA and prostate size can be used as parameters to advise men on their overall risk but not as the sole basis for treatment recommendations.[8]

Study Outcomes

In addition to the above citations that were published prior to the 2003 Guideline, a focused literature search was conducted to identify those studies with long term follow-up reporting outcomes in a group of men who received the approach of watchful waiting with no active therapy. Through this process, we identified four studies published in peer-reviewed journals that met the above criteria. Detailed evidence tables reviewing these studies are provided in Appendix A8. The Panel review of these data supports the following.

The placebo arm of the Medical Therapy of Prostate Symptoms (MTOPS) Trial was analyzed to determine the rate and clinical predictors of BPH progression.[9] A total of 737 men were randomized to placebo and the average length of follow-up was 4.5 years. Clinical progression of BPH [defined as an increase in the AUA symptom score of four or more points, AUR, urinary incontinence, renal insufficiency, or recurrent UTI (urinary tract infection)] occurred at the rate of 4.5 events per 100 person-years, which equals a cumulative incidence of 17% over the course of the study. Progression of the symptom score, as defined *a priori* as a sustained increase of four points on the I-PSS was the most

common event (3.6 per 100 person-years). BPH-related invasive treatment was delivered to 40 men (5.4%), with a rate of 1.3 events per 100 person-years.

In the MTOPS placebo group, a total prostate volume of more than 31 mL correlated with increased rates of clinical progression ($p<0.0001$), worsening of symptoms ($p=0.001$), urinary retention ($p=0.034$) and need for invasive surgical treatment ($p=0.0005$), compared with smaller prostates. Similarly, men with baseline PSA of greater than 1.6 mg/dL had significantly increased rates of clinical progression and other adverse outcomes ($p<0.05$). Qmax increased by 1.4 mL per second on average during MTOPS in the placebo group, however, men with a baseline Qmax of less than 10.6 mL per second had a significantly greater risk of clinical progression ($p=0.011$), worsening symptoms ($p=0.0005$), and surgical treatment ($p=0.033$) than subjects with a higher Qmax. Postvoid residual volume of more than 39 mL also predicted adverse outcomes. Age >62 years predicted clinical progression ($P=0.0002$) and worsening symptoms ($P=0.0003$), compared with younger men.

In an observational study, Djavan and colleagues (2004) examined 397 men with mild symptoms of BOO (I-PSS<8) over four years of follow-up.[10] Clinical progression as defined by an increase in I-PSS to $\geq$8 occurred at the following rates: six-months (6%); 12 months (13%); 24 months (24%); 36 months (28%); and 48 months (31%). Urinary retention occurring in 4.9% and 0.6% required transurethral resection of the prostate (TURP). Predictors for progression included higher baseline PSA ($p=0.001$), higher transition zone volume ($p=0.001$), and a greater obstructive symptom score ($p=0.04$). It is important to note that the differences in the definition of "progression" in such studies so as not to overestimate the risk of clinical progression.

Sarma and colleagues (2004) surveyed 369 African-American men in a prostate cancer and BPH study, recontacting them four years later to examine the progression of LUTS.[11] Only men with complete baseline AUA-SI data and no BPH-related treatment during the four-year follow-up were included in the final survey, which examined 149 men. In this select group, I-PSS did not change significantly during the four-year follow-up. Of men who initially had mild-to-no symptoms at baseline (AUA-SI $\leq$ 7), 26.4% reported moderate to severe symptoms at follow-up and this progression of symptoms occurred across age decade and increased with age to the seventh decade. Of men who initially had moderate-to-severe symptoms, at least 50% continued to report moderate-to-severe symptoms. In a multivariate model, older age predicted progression ($p=0.01$) and younger age predicted regression ($P<0.0001$).

In another longitudinal cohort study of men with mild LUTS (mean I-PSS score 4.6 [SE 0.05]), 456 men completed a five-year follow-up survey (53% of those who completed the baseline survey).[12] Treatment was not required by 72.8% of men, while 26% started pharmacotherapy and 1.5% had a TURP. No predictors of symptom progression were identified. Age ($p=0.0008$) and symptom bother ($p=0.007$) predicted the need for therapy.

Summary

Watchful waiting is an appropriate strategy for many men with LUTS/BPH. It is the recommended management for men who do not have bothersome symptoms and have not developed complications of BOO from BPH. Age, baseline symptom score, serum PSA and prostate size are helpful to predict the risk of AUR and need for surgery in men managed by watchful waiting. However, neither prostate size nor serum PSA should be used as the sole determinant of the need for active therapy. The overall benefit and risks of therapy must also be considered.

Medical Therapies

Alpha-adrenergic Antagonists (Alpha-blockers)

Alpha-adrenergic antagonists, also known as alpha-blockers, are a widely used class of medications for the treatment of LUTS secondary to BPH, a disease symptom complex attributed, with various levels of evidence, to arise from two major components: static and dynamic, with an increase in prostatic smooth muscle tone believed to be largely responsible for the latter. Noradrenergic sympathetic nerves have been demonstrated to effect the contraction of prostatic smooth muscle.[13] The prostate gland contains high levels of both α_1- and α_2-adrenergic receptors[14-17]; 98% of α_1-adrenoreceptors are associated with the stromal elements of the prostate, and are thus thought to have the greatest influence on prostatic smooth muscle tone.[15] Activation of these receptors and the subsequent increase in prostatic smooth muscle tone with urethral constriction and impaired flow of urine is thought to be a major contributor to the pathophysiology of LUTS secondary to BPH. In addition, there is variable evidence that adrenergic receptors further mediate LUTS secondary to BPH via their activation within the central nervous system (CNS) and bladder.

Alpha-blockers are not unique to the prostate. The two basic subtypes of alpha-receptors (α_1 and α_2) are distributed ubiquitously throughout the human body. In general, α_2-receptors are typically located presynaptically and down-regulate norepinephrine release via a negative feedback mechanism. α_1-receptors are the postsynaptic receptors that affect a response to neurotransmitter release. Several subtypes of the α_1-receptors have been identified and classified into three groups: α_{1A}, α^{1B} and α_{1D}.[16, 18, 19] Both α_{1A}- and α_{1B}-receptors have been identified within the prostate. The α_{1A}-receptors are the predominant adrenoreceptors expressed by stromal smooth muscle cells.[15] In contrast, the α_{1B} receptors are predominantly located in the smooth muscle of arteries and veins, including the microvasculature contained within the prostate gland.[19] Within the genitourinary system, α_{1D}-receptors are mainly located in the bladder body and dome.[20] α_{1D}-receptors are also located in the spinal cord where they are presumed to play a role in the sympathetic modulation of parasympathetic activity.[21]

Knowledge of α_1-receptor subtype location and action has been instrumental to targeting of BPH therapy to useful locations. Given their location, α_{1A}-receptors are optimal targets for therapy. Blockade of the α_{1A}-receptors has been shown to reduce prostatic tone and improve the dynamic

aspects of voiding. Blockade of α_{1B} receptors leads to venous and arterial dilation as smooth muscle cells in the vessel walls relax. In some patients this can cause dizziness and hypotension due to decreased total peripheral resistance, potentially serious side effects. Stimulation of α_{1D}-receptors can lead to detrusor instability and blockade of these receptors has been shown in animal models to reduce irritative voiding symptoms.

In an effort to maximally reduce LUTS and to minimize side effects, alpha-blocker development focused on binding to the α_1-receptors and with reduced activity at α_2-receptors (unlike phenoxybenzamine, a nonselective α_1/α_2-receptor blocker). These second generation agents included terazosin, doxazosin and alfuzosin. More recently available third generation agents (e.g. tamsulosin) are thought to be more selective antagonists for prostatic α_{1A}-receptors.[22, 23] These drugs target the smooth muscle cells contained within the prostate gland and exert lesser effects on the other alpha-blocker subtypes that regulate blood pressure**. Despite the convenient classification system mentioned above, it is critical that clinicians treating LUTS/BPH realize that the *in vitro* specificity of receptor antagonism and adrenergic generation does not necessary imply an advantage for the improvement of LUTS or the minimization of side effects.**

For the purposes of this Guideline the specific agents included are **alfuzosin, doxazosin, tamsulosin and terazosin** as they theoretically act in the location that will have the greatest benefit for symptoms with the fewest side effects, remain a mainstay of LUTS/BPH therapy, and thus will be reviewed individually below. For reference, detailed evidence tables are provided in Appendix A8.

Alfuzosin

Alfuzosin, a second-generation α_1-adrenoreceptor antagonist, is indicated for the management of moderate to severe BPH symptoms. Alfuzosin is approved for the treatment of bothersome urinary symptoms attributed to BPH as well as acute urinary retention. This medication is available in several countries other than the United States as immediate-release (two to three daily doses) and long-acting formulations (once daily dose).

Randomized Controlled Trials (RCTs)

We identified five unique RCTs that fulfilled the prespecified inclusion criteria[24-28] plus a meta-analysis of three RCTs,[29] two of which were included in the five RCTs, along with an additional unpublished data set. Patient inclusion and exclusion criteria were similar across studies. In particular, 'significant other urologic disease' was an exclusion criterion in all trials. Significant comorbidities, such as heart failure,[28] unstable angina,[25, 28] poorly controlled diabetes mellitus,[28] significant renal or hepatic disease,[25, 28] postural hypotension[25, 27, 29] and significant cardiac diseases contraindicating the use of alpha-blockers[30] were generally explicitly excluded. Studies varied greatly in population size, from 81[30] to 955.[29] Study follow-up periods were either three months,[24, 27-29] six months[25] or two years[26]. Most RCTs had a placebo run-in period of two to four weeks. Study participants were usually randomized at the end of the run-in period, however, one trial randomized beforehand and 18 subjects did not receive

the study drug.[28] In trials where the run-in period preceded randomization, it was unclear how many subjects were withdrawn during the run-in period.[24, 26, 27] The study settings were largely Western Europe and North America.

The mean patient ages in years in these trials ranged in the mid 60's. Some data were provided on comorbid conditions. Hypertension was common across study groups, ranging from 27% (treatment arm) to 41% (placebo arm).[25] Other co-morbidities were occasionally reported, including coronary heart disease (6% to 10%)[25], cardiovascular disease (46%)[27], and mild-to-moderate renal insufficiency (63%)[27]. I-PSS was reported at baseline in all studies, and ranged from 16.8 to 21.7 across treatment groups. Qmax ranged from 5.1 to 9.3 mL/s in the four studies reporting these data. Most of the trials examined the long-acting formulation of alfuzosin (10 mg once daily). One trial examined the short-acting formulation with up-titration from 2.5 mg to 5 mg twice daily,[28] and another trial compared 10 mg once daily to 2.5 mg three times daily.[27] Five of the randomized studies of alfuzosin were placebo-controlled; in the sixth the comparator was doxazosin.

Single-group Cohort Studies

Six observational studies of alfuzosin (in 12 publications) were identified.[30-41] These studies were included in the safety and adverse events analyses only. All were single-group cohort studies of men with LUTS suggestive of BPH. One study was an open-label extension of an (included) RCT.[38] Patient exclusion criteria were fairly uniform across studies and included severe medical comorbidities, history of postural hypotension, other urological disorders, and BPH surgery anticipated within three to 12 months of study initiation. Two studies excluded potential participants who had demonstrated lack of efficacy to prior alpha-blocker therapy: the ALF-ONE Study and a study reported by Saad and colleagues (2005).[32, 35]

Recruitment techniques were not described; in all studies it was unclear how participants were selected. Sample size varied greatly, from 33 participants in an open-label extension study[30] to the large ALF-ONE study[32, 40] and a study by Lukacs and colleagues (2000)[36, 41]. All cohort studies but one were ≥12 months in duration, generally longer than the RCTs.[35]

The mean age in years was generally in the mid 60's. Hypertension was common among study participants for whom data were reported 23%,[31] 35%[35] and 31.5%.[36] Patients with severe comorbidities were generally excluded with two studies that presented comorbidity rates reporting low rates of diabetes mellitus (5% in ALF-ONE)[31] and ischemic heart disease (5% in ALF-ONE[31] and 12.2% in a second study[35]). In a third study, comorbidities were reported in 60% of participants, however, details as to their nature were not reported.[36] There was some variation in baseline I-PSS, with four cohorts reporting scores between 15.5 and 19.6 and one reporting a score of 21.6 (SE 0.4).[37]

Alfuzosin doses and formulations varied across studies: alfuzosin 10 mg daily was administered in three studies,[33, 35, 38] alfuzosin SR 5 mg twice daily in one study[31] and the short-acting formulation (2.5 mg three times daily) in two studies.[36, 37]These cohort studies were conducted in Western Europe or

Canada, with ALF-ONE also including centers in Africa and the Middle East. None of these studies were conducted in the United States.

Efficacy and Effectiveness Outcomes

Morbidity

The incidence of surgical treatment during the follow-up period was similar between groups with six-months[25] and two-year[26] follow-up. The incidence of AUR was similar between the alfuzosin and placebo groups at two-years follow-up (p=0.82).[25, 26] McNeill and colleagues (2005) noted high rates of urinary retention during 3-month follow-up (64% with alfuzosin and 97% with doxazosin, p-value not reported).[25] This study included subjects with AUR at baseline who then had a successful trial without a catheter with alfuzosin (phase 1 of the study).

Symptoms and Quality of Life

Total I-PSS improved significantly (p<0.05) compared with placebo in all five RCTs. Data were insufficient to perform a meta-analysis; only two studies presented comparable doses and follow-up periods (three-month data for 10 mg daily).[24, 27] A third study with three-month data was a meta-analysis containing data from two included studies.[24, 27, 29] Roerhborn and colleagues (2006) published two-year data as cumulative incidence of I-PSS worsening in graphical form.[26] We attempted to obtain three- and six-month data from the study sponsor who has possession of the primary data for this trial, but received no response. The filling and voiding subscores of the I-PSS decreased significantly (p<0.05) in both studies reporting these outcomes.[24, 27]

In the active comparator trials, I-PSS improved more with doxazosin (mean dose, 6.1 mg daily; mean change, -9.2) than with alfuzosin 2.5 mg twice to three times daily (mean change, 7.5; between-group p<0.05).[28]

QoL score also improved in all five studies (p<0.05). Again, data were insufficient to perform a meta-analysis; only two studies presented comparable doses and follow-up periods.[24, 27] QoL was not reported in the active comparator trial of doxazosin vs. alfuzosin.[28]

Pressure, Flow, Volume Outcomes

Qmax also improved significantly with alfuzosin 10 mg daily compared with placebo in three trials with follow-up between three and 12 months[24, 26, 27], as well as in the meta-analysis at three months.[29] Improvements were approximately 1 to 2 mL per second. Significant improvement did not occur, however, with alfuzosin 15 mg daily at three months follow-up.[24] Postvoid residual volumes, prostate volume, and detrusor pressure at maximum flow were not reported as outcomes in these studies. In the active comparator trial of doxazosin vs. alfuzosin, Qmax improved in both treatment groups (approximately 3 mL per second), with no significant difference between groups (p>0.05).[28] In this same comparator trial post-void residual volume increased at 14-weeks follow-up with alfuzosin

(mean change, 9.6 mL; p>0.05) and decreased with doxazosin (mean change, -29.2 mL; between-group p<0.05). These differences do not appear clinically meaningful.

Prostate-specific Antigen Levels

Follow-up PSA decreased slightly with alfuzosin compared with placebo at two-year follow-up (p=0.07) in the only study reporting this outcome.[26]

Predicators of Efficacy, Effectiveness, and Harms

Few studies provided data on the predicators of either intended benefits or harms. No study examined the relationship between race/ethnicity and benefits or harms. One trial noted that lower I-PSS at baseline predicted worsening of symptoms over two-year follow-up, and that a higher I-PSS at baseline predicted BPH-related surgery.[26]

Several studies examined the relationship between patient age and outcomes. One trial found that age was not a predictor for the outcomes of I-PSS, AUR, or BPH-related surgery with alfuzosin treatment.[26] The incidence of adverse events related to vasodilation with alfuzosin 15 mg daily were increased in subjects 65 years of age and older, compared with younger subjects.[24] There were no significant differences in adverse events rates related to vasodilation between older and younger patients with 10 mg daily, however. Another trial examining the lower dosage found similar results.[27] Roehrborn and colleagues (2006) noted that alfuzosin was well tolerated in patients over 65 years of age and in persons taking antihypertensive medications.[26]

Safety Outcomes

Withdrawals and Adverse Events

Randomized Controlled Trials. Overall withdrawal rates were variable in the five placebo-controlled trials, ranging from 3% (six-month study)[25] to 33.9% (two-year follow-up)[26], with rates generally similar between treatment groups. Withdrawal rates were 19% with doses of alfuzosin 2.5 mg two or three times daily, compared with 12% with doxasosin 1 to 8 mg daily at 14 weeks follow-up.[28]

Mortality rates were reported in only two of the five placebo-controlled trials of alfuzosin[25, 28] with one sudden cardiac death in the alfuzosin group in a three-month study[28] and no deaths in a second, six-month trial.[25] Rates of treatment-emergent adverse events were generally similar between treatment and placebo groups. Rates varied significantly among studies, however, from 8.4% and 13.1% (treatment and placebo, respectively)[25], to more than 50% in a study with two years of follow-up.[26]

Rates of specific adverse events were low and similar between treatment and placebo groups. Dizziness was the most commonly reported adverse event, ranging from 2% to 9% with alfuzosin and somewhat lower rates with placebo. Sexual function was reported in four studies with no significant difference between treatment groups (alfuzosin, doxazosin and placebo). In the active controlled trials,

alfuzosin and doxasosin had similar rates of adverse events, including dizziness and erectile dysfunction (ED).

Single-group Cohort Studies. Withdrawals rates varied across studies and were generally higher with longer follow-up: up to 36% in the ALF-ONE cohort with three-year follow-up.[34] Withdrawals due to adverse events were generally low, ranging from 3.9%[38] to 8.6%.[34] Incidence rates for treatment-emergent adverse events varied greatly across studies, and were also generally higher with longer follow-up. The highest rate was reported in three-year follow-up of 689 subjects in ALF-ONE[34], where 71.4% reported at least one treatment-emergent adverse event. A high rate of one or more treatment emergent adverse event was also reported in a 12-month study (43%).[38] In contrast, 7% of participants reported a treatment-emergent event in another 12-month study where "the appearance of adverse medical events was carefully monitored and recorded throughout the trial."[37] Lukacs and colleagues (2000) noted that 61% of adverse events occurred in the first three months of treatment.[36]

Doxazosin

Doxazosin is also a second-generation α_1-adrenoreceptor antagonist, indicated for the management of moderate to severe BPH symptoms. As a long-acting agent, it is also dosed once-daily. Doxazosin not only elicits a dose-dependent response but its side-effect profile has also been shown to be dose dependent. In order to reduce the frequency of side effects (i.e., postural hypotension and syncope), doxazosin is typically initiated at a dose of 1 mg once daily. The dose may be increased to 8 mg/day, depending on response and tolerability.

Randomized Controlled Trials (RCTs)

The nine RCTs evaluating doxazosin that were identified involved various comparators, follow-up intervals, doses, and formulations, so that synthesis across all trials was not meaningful. For reader ease, the data is presented by comparator, dose,[42] formulation,[43, 44] whether placebo-controlled[44-47] or active–treatment controlled.[47-49] An additional study examined success of discontinuing doxazosin while taking finasteride, so-called "withdrawal therapy".[50] There were no cohort studies with a comparison group identified, but there were five single-group cohort studies reporting doxazosin adverse events.[51-55] The sample size of these five studies varied from 102 to 3,694.

The MTOPS study was included in the 2003 Guideline even though it was published after the cut-off date (June 1999) for study inclusion for that report.[46] This important study is included in the 2010 AUA BPH Guideline in a more abbreviated fashion for that reason. In this blinded study, 3,047 men were randomized to one of four treatments: doxazosin, finasteride, combination doxazosin and finasteride, and placebo. This trial was unique in that the primary outcome was clinical progression as defined by a composite endpoint (sustained four point rise in AUA-SI, acute retention, renal insufficiency, and recurrent UTI or urinary incontinence) examined over 4.5 years.

Similar to the MTOPS study, the Prospective European Doxazosin and Combination Therapy (PREDICT) trial was a blinded study of four treatments: doxazosin, finasteride, combination doxazosin

and finasteride, and placebo.[47] Of note, PREDICT differed from MTOPS in that it was only 52 weeks in duration and evaluated only the standard outcomes, I-PSS and Qmax, rather than assessing the impact on clinical progression.

As mentioned above, one RCT examined the clinical outcome of 272 men with enlarged prostates (>40 g) who were withdrawn from doxazosin therapy after initially receiving combination therapy with finasteride.[56]

Single-group Cohort Studies

The five single-group cohort studies that included 102 to 3,694 participants reported adverse events with doxazosin use.[51-55] One large observational study of men receiving 4 mg to 8 mg of doxazosin in a gastrointestinal therapeutic system (GITS) formulation[54] was a longitudinal extension of an earlier double-blind trial examining 178 hypertensive and 272 normotensive patients[51]. One study examined the effect of doxazosin 4 mg and tolterodine 2 mg in 144 consecutive men with BOO.[55]

Efficacy and Effectiveness Outcomes

Morbidity

A dose-ranging study comparing doxazosin 4 and 8 mg daily over three months (*n*= 82) noted adverse events rates were similar between treatment groups, although dizziness and nasal stuffiness were more common with the 8 mg dose; no statistical analysis was reported.[42] In the MTOPS study, the most common side effects reported in the doxazosin arm were dizziness, postural hypotension, and asthenia. Men receiving combination therapy experienced the same level of side effects noted in each of the monotherapy arms.

Symptoms and Quality of Life

AUA Symptom Index/International Prostate Symptom Score (Total). The doxazosin dose-ranging study comparing 4 mg and 8 mg daily doses over three months (*n*=82) noted improved AUA-SI in both treatment groups with a significant difference between groups (p=0.03).[42] Similar findings was noted when with the Boyarsky score (p=0.009, 4 vs. 8 mg doses). In a trial comparing doxazosin GITS with the standard formulation doxazosin and placebo, the total I-PSS improved in all three groups (p<.0.001) at 13-weeks of follow-up.[44] Both active treatments were more effective than placebo (p<0.001), but there was no difference between the active groups.

As mentioned above, MTOPS reported on the clinical progression of a composite endpoint.[46] The most common event triggering a progression event was a four point change in AUA-SI and the rate of this event was reduced in all three active-treatment groups. There was no significant difference between either finasteride or doxazosin monotherapies and the combination doxazosin and finasteride. In the shorter duration PREDICT study, I-PSS improved significantly with doxazosin monotherapy and the

combination, while the I-PSS decrease with finasteride therapy was not significantly different than with placebo.[47]

International Index of Erectile Function (IIEF). In a trial comparing the effects of doxazosin GITS and standard formulations on sexual function in sexually active men, investigators noted that the GITS consistently improved sexual function regardless of baseline function using the International Index of Erectile Function (IIEF) to measure intercourse and sexual satisfaction domains ($p<0.05$).[43] The difference between the GITS and standard formulation was significant for the erectile function domain ($p<0.005$). **The clinician is cautioned about considering alpha-blockers as a useful therapy for the treatment of ED as this was not adequately addressed in this limited study.**

BPH Impact Index. Several active-treatment controlled trials were identified that used the BPH II, including a comparison of the doxazosin GITS with tamsulosin in a blinded study.[48] The BPH II improved significantly in both treatment groups at 12 weeks ($p<0.05$) with no differences noted between the groups.

Other Custom Measures. As mentioned above, the MTOPS assessed the clinical progression of a composite endpoint.[46] Throughout the trial, the overall rate of clinical progression per 100 person years was 4.5 in the placebo group, 2.7 with doxazosin ($p<0.0001$ vs. placebo), 2.9 with finasteride ($p=0.002$ vs. placebo), and 1.5 in the combination group ($p<0.001$ vs. placebo). The risk of overall progression increased with increasing baseline PSA (a proxy for prostate volume) in the placebo and doxazosin groups ($p<0.006$), but not in the finasteride or combination groups. The numbers needed-to-treat analysis indicated that to prevent one case of progression 8.4 individuals would need to be treated with combination therapy, 13.7 with doxazosin and 15.0 with finasteride.

As mentioned previously, the "withdrawal therapy" trial was an RCT that examined success rates after discontinuing doxazosin.[56] Initially 272 men with prostate volume of at least 40 g were treated with finasteride 5 mg and doxazosin 2 mg, titrated up to 4 or 8 mg daily. Men with a favorable response (n=240) after one month were randomized to receive: 5 mg finasteride plus 2 mg doxazosin (n=100), 5 mg finasteride plus 4 mg doxazosin (n=80), and 5 mg finasteride plus 8 mg doxazosin (n=60) daily. Within each group, men were then randomized (but not in a blinded fashion) to discontinue doxazosin at three-month intervals. Among men discontinuing doxazosin at three months, successful discontinuation (defined as the patient declining to restart doxazosin) occurred in 20% of men receiving 2 mg doxazosin, 15% of men receiving 4 mg, and 13% of men receiving 8 mg. Success rates improved over time, with little difference among doxazosin dose groups. In men discontinuing doxazosin at 12 months, success was achieved by 84% of the 2 mg group, 85% in the 4 mg group, and 87% in the 8 mg group. The authors concluded that in men with moderately large prostates receiving combination therapy, the alpha blocker can be successfully discontinued after nine to 12 months in most men, regardless of dose. The lack of blinding is obviously a limitation of the study, as is the small number of subjects in each treatment group (there was no power calculation, but power was very likely insufficient to detect clinically important treatment effects). **The general applicability of withdrawal therapy noted here and**

elsewhere has not been determined, thus the clinician is warned to consider this approach as experimental.

Pressure, Flow, Volume Outcomes

Maximum Flow Rate. In the doxazosin dose-ranging study, the investigators noted improved Qmax in both 4 mg and 8 mg treatment groups with no difference between doses.[42] In the trial comparing doxazosin GITS with the standard formulation doxazosin, and placebo, Qmax improved with both formulations compared with placebo ($p<0.001$) but there were no differences between active treatments ($p=0.257$).[44]

In the PREDICT study, Qmax improved significantly with only doxazosin mono-therapies and the combination, while finasteride outcomes were no different than placebo.[57] The shorter duration of treatment may be a large factor in the modest effect noted with 5-alpha-reductase inhibition.

Prostate Volume (Measured by TRUS or Magnetic Resonance Imaging [MRI]). In a companion publication to MTOPS, investigators noted that in men with prostate volumes <25 mL, combination therapy was no better than doxazosin monotherapy in improving the risk of progression, AUA-SI and Qmax.[58] Among men with glands >25 mL, combination therapy led to greater clinical benefit than either monotherapy.

Acute Urinary Retention. As mentioned above, MTOPS assessed the clinical progression of a composite endpoint including AUR.[46] The rate of AUR was reduced with finasteride and combination therapy. Doxazosin delayed, but did not prevent AUR ($p=0.23$). Findings were similar for the rates of crossover to invasive therapy for BPH which were reduced by finasteride and combination therapy but not doxazosin. In the PREDICT study, AUR and need for surgery were infrequent and highest in the placebo group with no events in the combination arm.[57] It appears logical that the larger cohort and longer duration noted in MTOPS supports a time-limited impact of doxazosin on the hard outcomes of AUR and crossover to surgery. This effect noted with doxazosin is thought by the Panel to be a class effect.

<u>Safety Outcomes</u>

Withdrawals and Adverse Events

Single-Group Cohort Studies. In the doxazosin single-cohort studies, dizziness and symptomatic hypotension were the most commonly reported adverse events. Rates for these side effects varied across studies from 14.7% (dizziness)[51] to <1% (postural hypotension).[52, 54] Other adverse events were infrequently reported.

The large study by Hernandez and colleagues (2005) was an observational surveillance study of men on 4 mg to 8 mg of doxazosin GITS for six months. In total, 107 patients (2.9%) withdrew from the study due to adverse events.[54] The rate of postural hypotension was 1.1% and syncope 0.05% (an additional two men experienced syncope not attributed to the drug). Four men reported ED; three of

these cases were considered unrelated to the study drug. Importantly, this publication does not indicate how the researchers decided whether an adverse event was attributed to the study drug or not.

In a longitudinal extension of earlier double-blind trials, Fawzy and colleagues (1999) examined 178 hypertensive and 272 normotensive patients.[51] The dose of doxazosin could be titrated in hypertensive patients up to a dose of doxazosin 16 mg daily, whereas normotensive patients were titrated only up to 8 mg daily. The incidence of drug-related adverse events in normotensive men was approximately half the rate seen in hypertensive patients (6.6% vs. 12.4% per year). In hypertensive men achieving 48-month follow-up, the rate of drug-related adverse events was 14.3% per year. However, the incidence of severe adverse events was similar between the hypertensive and normotensive patients (7.1% vs. 6.6% per year, respectively). Drug-related adverse events were less common in older than younger hypertensive patients, although the discontinuation rate was slightly higher in the older subgroup (10.3% vs. 6.8% per year, p-value not reported).

In a study examining sexual effects of doxazosin after three months of treatment, overall IIEF scores improved at one month ($p=0.0177$), and improvements were maintained at the final follow-up of three months.[53] Among patients with lower IIEF scores at baseline (≤ 16), patients demonstrated a significant improvement in scores at three-month follow-up ($p<0.01$); statistically significant improvement was not seen among men with higher IIEF scores.

Lee and colleagues (2004) administered doxazosin 4 mg daily with added tolterodine 2 mg daily if needed, to 144 consecutive men with BOO, and compared outcomes between men with and without overactive bladder.[55] The most common adverse events reported with doxazosin were dizziness (2%), postural hypotension (1.3%), and abnormal ejaculation (1.3%). Dry mouth (27%), the most commonly reported adverse event in patients receiving tolteridine, led to treatment discontinuation in two of 16 patients with this complaint. Acute urinary retention developed in 3.3% of men on combined tolteridine and doxazosin and resolved with overnight catheterization.

Tamsulosin

Tamsulosin is a third-generation alpha-blocker with greater specificity for the α_{1A}-adrenoreceptor in relation to the α_{1B}-adrenoreceptor with a putative advantage in reduced need for titration (i.e., 0.4 mg, 0.8 mg) and less hypotensive side effects. Clinical studies have also demonstrated that tamsulosin can be co-administered with antihypertensive medications such as nifedipine, enalapril and atenolol without any increased risk of hypotensive or syncopal episodes.

Randomized Controlled Trials (RCTs)

Eight RCTs examined tamsulosin, including two placebo-controlled trials,[59, 60] two direct drug comparisons,[61, 62] three direct drug trials with a placebo comparison group[63-65] and a trial examining the effects of withdrawing tamsulosin when dutasteride therapy was continued ("withdrawal therapy").[66] In addition, a meta-analysis of three previously published RCTs comparing tamsulosin to placebo and to alfuzosin with respect to sexual side effects were identified.[67] The Combination of Adovart and

Tamsulosin (CombAT) trial, an RCT comparing tamsulosin, dutasteride, and the combination, is discussed in the section on dutasteride.

Sample sizes ranged from 205 to 2,152 with study duration ranging from 12 weeks to one year. Placebo run-in periods ranging from seven to 28 days were included in the design of five of the studies. The mean total I-PSS score at baseline ranged from approximately 16 to 20 and mean age from 60 to 65 years. Qmax was more heterogeneous across studies: mean values ranged from 8.7 to 13.4 mL per second. Several studies specifically excluded men with significant comorbidities.[61, 62]

Intervention dosing and drug formulation varied across studies. The most common dose was tamsulosin 0.4 mg daily.[59, 62-64, 67] One study compared the oral controlled absorption system (OCAS) at 0.4 mg and 0.8 mg daily to the standard modified release formulation (0.4 mg daily).[59] Several studies used lower doses of 0.2 mg twice daily[60] or 0.2 mg once daily.[61] In the Symptom Management After Reducing Therapy (SMART-1) study, Barkin and colleagues (2003) randomized 327 men with symptomatic BPH to 0.5 mg dutasteride plus 0.4 mg tamsulosin for 36 weeks, or to 0.5 mg dutasteride plus 0.4 mg tamsulosin for 24 weeks followed by dutasteride plus a tamsulosin-matched placebo for 12 weeks.[66]

Because of the considerable heterogeneity across comparators, study populations, and drug doses and formulations, the data were synthesized in a qualitative manner since the Panel did not believe that a meta-analysis would be meaningful.

Single-group Cohort Studies

Six single-group cohort studies of adverse events with tamsulosin as the primary intervention were identified. In addition, two single-group cohort studies were included with cataract surgery as the primary intervention, assessing the outcome of intraoperative floppy iris syndrome (IFIS).[68, 69] Follow-up ranged between 12 weeks[70] and 5 years[71].

Efficacy and Effectiveness Outcomes

Symptoms and Quality of Life

AUA Symptom Index/International Prostate Symptom Score (Total). Total I-PSS decreased compared with placebo in the three studies reporting this outcome ($P<0.05$), all with 12-week follow-up.[59, 63, 64] When compared with finasteride 5 mg daily, tamsulosin 0.2 mg daily[61] or 0.4 mg daily[62] did not differ in I-PSS or Qmax at 24- and 26-week follow-up. One trial randomized men to alfuzosin, tamsulosin, or placebo, but did not report changes or tests of significance for the comparison of the two active drugs.[64] Similarly, Kaplan and colleagues (2006) did not compare tamsulosin to tolterodine.[63]

In the Symptom Management After Reducing Therapy (SMART-1) RCT, Barkin and colleagues (2003) examined combination therapy with dutasteride 0.5 mg daily and tamsulosin 0.4 mg daily for 24 weeks followed by either continuation of both drugs or continuation of dutasteride with tamsulosin-placebo for 12 weeks.[66] Of men with baseline I-PSS less than 20, 84% switched to dutasteride

monotherapy at 24 weeks without deterioration in their symptoms by week 30. In men with severe BPH symptoms at baseline, 42.5% reported a worsening of symptoms after tamsulosin withdrawal at week 24, compared with 14% who reported symptom deterioration among those who continued dual therapy. **The general applicability of withdrawal therapy noted here and elsewhere has not been determined thus the clinician is warned to consider this strategy as experimental.**

QoL from I-PSS. As reported above, one study using the oral controlled absorption system (OCAS) reported that the QoL score improved more with tamsulosin OCAS 0.4 mg and modified-release 0.4 mg daily than with placebo.[59] Another study also reported a more favorable change in QoL for tamsulosin ($P<0.05$).[61]

Other custom measures. In one study the primary outcome was the Symptom Problem Index (SPI), a validated symptom questionnaire related to the I-PSS, but scored differently.[62] The SPI improved in both treatment groups (finasteride 5 mg or tamsulosin 0.4 mg once daily), but improved sooner with tamsulosin, with significant differences between groups ($p<0.05$) in favor of tamsulosin through week 18. Between weeks 26 and 52, however, there were no significant differences between the groups. Sexual function, as measured with a questionnaire that was not reported as validated, was not significantly different between the two drugs.[62]

Pressure, Flow, Volume Outcomes

Maximum Flow Rate. As reported above, in one study using the oral controlled absorption system (OCAS), Qmax improved significantly in one trial reporting that outcome.[59]

Predictors of Efficacy and Effectiveness

Included trials did not generally examine the predictors of efficacy or adverse events. A *post hoc* analysis of a trial comparing tamsulosin and finasteride demonstrated that the greater improvements in Qmax with tamsulosin compared with finasteride at weeks one, six and 18, was significant for patients with prostate volume less than 50 mL, but was not significant for larger glands.[62] There was no significant differential effect after 18 weeks between the two drugs with large or small glands.

Safety Outcomes

Withdrawals and Adverse Events

Randomized Controlled Trials (RCTs). Rates of total withdrawals from studies were variable; for the 12-week trials rates ranged from 5%[59] to 29%.[61] In the latter study, both tamsulosin and finasteride groups lost approximately the same percentage of subjects, the majority due to failure to return for follow-up. In addition, in this trial, there were more treatment-emergent adverse events with finasteride (2.5%) than with tamsulosin (3.9%). Rates of treatment emergent adverse events varied markedly across these trials. The highest rate was reported by Kawabe and colleagues (2006)where the rate was 82%

with tamsulosin and 72% with placebo.[60] This finding contrasts markedly with another trial where rates for tamsulosin were approximately 4%.[61]

Dizziness was commonly reported, with higher rates in the tamsulosin group compared with placebo in one trial,[63] similar rates in a second trial,[59] while a third trial reported higher rates in the placebo group.[72] Syncope and postural hypotension were uncommon (< 1% to 2%). Hofner and colleagues (1999) examined sexual function with tamsulosin and alfuzosin in a meta-analysis of two placebo-controlled trials of tamsulosin and a head-to-head trial of tamsulosin compared with alfuzosin.[67] Tamsulosin produced a higher rate of abnormal ejaculation than placebo ($p=0.045$) but rates of ED and decreased libido were not significantly different ($p>0.05$). Tamsulosin was comparable to alfuzosin with respect to adverse sexual effects.

Single-group Cohort Studies. In a study with five-year follow-up, Palacio and colleagues (2004) reported a total of 114 nonserious adverse reactions during the first year; only 3.6% of men had an adverse reaction, all within the first year.[71] Adverse reactions were not defined and it was unclear if any withdrawals were due to adverse events. Batista and colleagues (2002) examined more than 2,700 patients in a single-group cohort study, and included all patients with LUTS between 45 and 75 years of age who visited a group of urologists' offices.[73] Study participants therefore had a variety of comorbid conditions: hypertension 18.4%, diabetes mellitus 12.1%, and cardiovascular disease (unspecified) 10.5%.

In a much smaller cohort, 88% of subjects had a positive medical history, including 35% with cardiovascular disease.[70] Using prescription monitoring data, Mann and colleagues(2000) reported adverse events for men issued a tamsulosin prescription.[74] The response rate for the questionnaire was 57.4%, and 92% of returned forms had event data. After six months of treatment, 68.6% of men were still taking tamsulosin. Patients reported dizziness, malaise, and headache most commonly. General practitioners also reported adverse events; the most common events were dizziness, nausea, and palpitations.

Terazosin

Terazosin is an α_1-selective antagonist with a relatively long half-life that allows for once-daily dosing. As noted in the 2003 Guideline, terazosin is an effective medical treatment for reducing LUTS and the impairment of QoL due to urinary symptoms created by BPH. It has been shown that the response to terazosin is dose dependent. Not surprising, the side effect profile has also been shown to be dose dependent. In order to minimize the frequency of side effects (i.e., postural hypotension and syncope) terazosin is typically initiated at a dose of 1 mg once daily. Depending on response to therapy and tolerability, the dosage may be increased to 10 mg/day.

Randomized Controlled Trials (RCTs)

Two RCTs examined terazosin.[75, 76] A secondary analysis of the VA CO-OP trial[77] (included in the 2003 Guideline) by Johnson and colleagues (2003) assessed changes in nocturia with medical treatment.[75]

Single-group Cohort Studies

A two-group cohort study compared 60 patients with symptomatic BPH receiving either terazosin titrated up to 5 mg daily, or finasteride 5 mg daily.[78] Rates of adverse events were low, and dizziness occurred more frequently with terazosin (13%) than with finasteride (3%). Supine hypotension occurred in one patient on terazosin.

Efficacy and Effectiveness Outcomes

Morbidity

One RCT was a retrospective analysis of the Hytrin Community Assessment trial (HYCAT).[76] The incidence of blood pressure-related adverse events with terazosin was similar between men on no antihypertensive treatment (13.5%) and men on antihypertensive treatment (14.3%). The rates of blood pressure-related adverse events in the placebo groups were 9.0% in men not on antihypertensive therapy and 5.9% in men using such therapy.

Safety Outcomes

Symptoms and Quality of Life

Another RCT, the VA CO-OP trial, compared terazosin 10 mg daily, finasteride 5 mg daily, combination therapy of both drugs, and placebo. Of the original 1,229 men randomized, 1,078 completed one- year of treatment. Of those, all but 38 reported one or more episodes of nocturia, so that 1,040 men were included in this secondary analysis. After one-year of treatment, the mean number of episodes of nocturia was 1.8 with terazosin, 2.1 with finasteride, 2.1 with placebo, and 2.0 with combination therapy compared with baseline values of 2.5, 2.5, 2.4, and 2.4, respectively. Terazosin significantly reduced nocturia episodes compared with finasteride (p=0.0001), combination therapy (p=0.03) and placebo (p=0.0001). Combination therapy also reduced nocturia episodes compared with finasteride (p=0.04) and placebo (p=0.03).[75]

Intraoperative Floppy Iris Syndrome

Intraoperative floppy iris syndrome (IFIS) is a condition first described by Chang and Campbell (2005) as a triad of progressive intraoperative mioses despite preoperative dilation, billowing of a flaccid iris, and iris prolapse toward the incision sites during phacoemusification for cataracts.[79] Operative complications in some cases included posterior capsule rupture with vitreous loss and postoperative intraocular pressure spikes, though visual acuity outcomes appeared to be preserved. The original

report linked this condition with preoperative use of the alpha-blocker tamsulosin. A possible mechanism linking alpha blockers with IFIS is inhibition of the iris dilator smooth muscle.[79, 80]

To better understand the implications of IFIS for the use of alpha blocker therapy for men with LUTS attributed to BPH, two focused literature searches were conducted covering the period 1/1/1999 – 2/5/2009, using search terms as follows:

("Iris Diseases "[MeSH] OR "intraoperative floppy-iris syndrome"[TIAB] OR IFIS[TIAB] OR "Floppy Iris"[TIAB]) AND (BPH[TIAB] OR "Benign prostatic hyperplasia"[TIAB] OR "Prostatic Hyperplasia"[MeSH]) AND 1999/01/01[PDAT] : 2009/02/05[PDAT] AND English[Lang] NOT (Case Reports[PT] OR Editorial[PT] OR News[PT] OR Comment[PT] OR Letter[PT] OR "Historical Article"[PT] OR Biography[PT])("Iris Diseases"[Mesh] OR "intraoperative floppy-iris syndrome"[TIAB] OR IFIS[TIAB] OR "Floppy Iris"[TIAB]) AND ("tamsulosin"[TIAB] OR "Adrenergic alpha-Antagonists"[MeSH] OR "doxazosin"[TIAB] OR "prazosin"[TIAB] OR "tamsulosin"[TIAB] OR "alfuzosin"[TIAB] OR "terazosin"[TIAB] OR "trimazosin"[TIAB] OR "phenoxybenzamine"[TIAB]) AND ("1999/01/01"[PDAT] : "2009/02/05"[PDAT]) AND English[lang] NOT (Case Reports[PT] OR Editorial[PT] OR News[PT] OR Comment[PT] OR Letter[PT] OR "Historical Article"[PT] OR Biography[PT]) NOT (BPH[TIAB] OR "Benign prostatic hyperplasia"[TIAB] OR "Prostatic Hyperplasia"[MeSH])

The two searches yielded a total of 32 unique articles. In addition, reference lists of the retrieved papers were reviewed for original reports describing the risk of IFIS in association with alpha blockers.

Through this process, we identified 11 studies published in 10 reports providing information on the risk of IFIS with the use of various alpha blockers, and the implications of this condition for men prescribed alpha blockers for LUTS (Appendix A8). A review of these data supports the following conclusions:

The risk of IFIS is substantial among men taking tamsulosin, ranging from about 43% to 90% in 10 retrospective and prospective studies (sometimes the denominator for these risks is patients, and sometimes eyes).[68, 69, 79, 81-88]

The risk of IFIS appears lower with older, generic alpha blockers such as terazosin and doxazosin, with IFIS occurring in 0/11 patients (0%), 3/49 patients (6.1%), 1/51 eyes (2.0%), and 1/4 eyes (25%) in the four studies reporting on the risk of IFIS with these agents.[69, 79, 84, 88] There is insufficient exposure data to estimate the risk of IFIS with alfuzosin.

It is unclear whether dose or duration of alpha-blocker treatment influences the risk of IFIS. It is unclear whether stopping alpha-blocker treatment any period of time before surgery mitigates the risk of IFIS. If experienced ophthalmologists are aware of preoperative alpha-blocker use, pre- and intra-operative precautions can be taken to reduce the risk of IFIS complications and attain excellent visual

outcomes,[80, 85] though it remains unclear if the residual risk and outcomes are any worse than among patients without IFIS.

It is important to note that after the IFIS literature search and review was completed, a study was published in the Journal of the American Medical Association examining the association of recent tamsulosin use with serious postoperative complications (e.g., retinal detachment, lost lens or lens fragment, or endophthalmitis) requiring reintervention within 14 days of cataract surgery.[89] The study found that for every 255 men receiving tamsulosin in the immediate preoperative period, one of these complications would result. The study had insufficient power to determine whether discontinuation of tamsulosin reduced the risk of these complications, and no separate estimate of the risk was provided for other alpha blockers, including alfuzosin.[89] Therefore, the Panel believed that these new findings were supportive of their original conclusions.

Summary

Alpha-blockers produce significant symptom improvement compared to placebo that the average patient will appreciate as a moderate improvement from baseline. The minor differences in efficacy noted between the different alpha blockers are not statistically (when tested) or clinically significant.

The 2003 Guideline suggested that some patients treated with tamsulosin require the 0.8 mg dose to achieve the results obtained with doxazosin and terazosin titrated to response. This presents a cost-effectiveness problem for tamsulosin (which is not yet available generically) because the 0.8 mg daily dose requires two tablets and thus, twice the expense of the lower dose, while the terazosin and doxazosin recommended dosages are available as one unit generic products and priced accordingly. As this problem was not noted in the 2003 Guideline, it was the opinion of the Panel to include this comment in current guideline results.

Similarly, while in previous studies of one-year duration or less, combination therapy proved equal to alpha-blocker therapy, but superior to 5-ARI therapy, MTOPS demonstrated that in the long-term, among men with larger prostates, combination therapy is superior to either alpha blocker or 5-ARI therapy in preventing progression and improving symptoms. It was the opinion of the Panel that there is insufficient information to gauge the utility of alpha-blocker withdrawal therapy among men initially treated with combination therapy. Although not an unreasonable strategy, clinicians need to recognize that the optimal duration of combination therapy prior to discontinuation of the alpha-blocker remains in doubt.

Data from the long-term MTOPS trial suggests a time limited impact of alpha-blockers on the hard outcomes of AUR and crossover to surgery. That is, while AUR and surgery rates were lower with doxazosin compared to placebo in the early years of follow-up, by five years, rates of these outcomes were similar in both groups. The time-limited effect noted for doxazosin in MTOPS on these outcomes was judged by the Panel to be a class effect.

Qmax also improved significantly with alpha-blockers when compared with placebo. Improvements were approximately 1 mL to 2 mL per second from baseline.

Rates for specific adverse events were low and similar between treatment and placebo groups. Dizziness was the most common adverse event, with rates reported between 2% and 14% with alpha blockers and somewhat lower rates with placebo.

Sexual function was reported sporadically in the studies reviewed with no significant difference between treatment groups. Some studies report improved sexual function when using alpha blockers. **The clinician is cautioned about considering alpha-blockers as a useful therapy for the treatment of ED as this outcome was not globally addressed in these limited studies.** Tamsulosin produced a higher rate of abnormal ejaculation than placebo, but rates of ED and decreased libido were not significantly different.

In general, although doxazosin and terazosin require dose titration and blood pressure monitoring, they are inexpensive, can be taken once daily, appear equally effective to tamsulosin and alfuzosin, and have generally similar side effect profiles. Moreover, these older agents do not appear to increase the risk of the IFIS, and doxazosin has demonstrated efficacy relative to placebo over four years of follow-up. The Panel wished to remind clinicians that these agents remain excellent choices for the management of bothersome LUTS attributed to BPH.

In the expert opinion of the Panel, the caveat remains that alpha blocker monotherapy is not considered optimal therapy for hypertension. LUTS/BPH and hypertension should be managed separately.

5-Alpha-reductase Inhibitors (5-ARIs)

As the indication for treatment with 5-ARIs and combination therapy hinges on prostate volumes and PSA thresholds, the treating physician may discuss the relationship between PSA and prostate size with the patient. This conversion is enabled by the enzyme 5-AR, of which there are two isoenzymes known as types I and type II. Both testosterone and DHT bind to the androgen receptor, although dihydroxytestosterone (DHT) does so with greater affinity and is thus considered to be the more potent androgenic steroid hormone. The T/DHT-androgen receptor complex within the nucleus of the cells of the prostate initiates transcription and translation, thus promoting cellular growth and ultimately contributing to the condition of BPH with an imbalance between growth and apoptosis or cellular death in favor of growth, and subsequent cellular mass or volume increase.[90, 91]

While there are several medical and surgical ways to reduce the influence of androgenic steroids on the growth of the prostate (e.g., medical or surgical castration), the only hormonal therapies with an acceptable benefit–to-risk ratio are the 5-ARIs. These molecules act via the reduction of DHT in the prostate which leads to a reduction in the overall androgenic growth stimulus in the prostate, an increase in apoptosis and atrophy and ultimately a shrinkage of the organ ranging from 15-25% measured at six months. The atrophy is most pronounced in the glandular epithelial component of the prostate, which is the source of the production and release of serum PSA. It is for this reason that the

organ shrinkage is associated with a reduction in serum PSA by approximately 50% (and a concomitant decrease in serum free PSA by 50%, which means that the ratio of free/total PSA remains constant).[92, 93] For reference, detailed evidence tables reviewing the studies evaluated by the Panel per the below are provided in Appendix A8.

Finasteride

Randomized Controlled Trials (RCTs)

In the 2003 Guideline finasteride was found to be an appropriate BPH treatment option based on a thorough review of a large body of evidence consisting of randomized, placebo-controlled studies of one year, two years, and four years duration. The majority of studies with finasteride were published before the 2003 Guideline and since then the molecule has lost patent protection. Only a small number of subsets or post hoc analyses and open-label extension studies have been reported since the 2003 Guideline was published. We identified one placebo-controlled trial, the Proscar Long-Term Efficacy and Safety Study (PLESS).[94-96] The primary publication by McConnell and colleagues was published in 1998, thus was included in the prior report.[95] The PLESS trial randomized 3,040 subjects to either finasteride 5 mg daily or to placebo, and finasteride improved symptoms and reduced the risk of development of AUR and the need for BPH-related surgery.

A second open label extension study was identified, which reported six-year follow-up data from a one-year placebo-controlled RCT comparing finasteride 1 mg or 5 mg daily to placebo.[96] Data on 725 of the original 1,657 men randomized were available for five or six year follow-up of finasteride 5 mg daily (depending on whether they had received active treatment or placebo during the RCT in the first year).

Efficacy and Effectiveness Outcomes

Symptoms, Bother and Quality of Life

Previous analyses of randomized, placebo-controlled trials had shown an improvement in standardized symptom scores (I-PSS or Quasi I-PSS) superior to placebo. Numerically improvements of three to four points had been reported and were maintained for six to 10 years of follow up.[97, 98] The magnitude of improvement was similar when patients were stratified by prostate volume or serum PSA. However, the natural history is more accelerated in men with larger glands and higher serum PSA values, and thus, the difference between finasteride and placebo – the attributable effect – becomes more accentuated in those patients over time.[99-102]

Findings regarding bother, interference and QoL scores were similar to those regarding the I-PSS or quasi I-PSS score. Bruskewitz and colleagues (1999) examined bother as measured with questionnaire items similar to those in the AUA symptom problem index in the PLESS Study, and found that mean reductions in overall bother were significantly greater with finasteride than placebo from four-month through four-year follow-up ($p<0.001$).[103] Mean interference domain score and daily activity questions were also improved more with finasteride than placebo ($p<0.05$). In addition, no significant difference

was found between treatment groups with respect to ED, satisfaction with sexual activity, and sexual interest. On examination in the PLESS of age cohorts of men 65 years of age or more, and men less than 65 years, finasteride significantly improved a modified AUA-SI, and reduced prostate volume and the risk for AUR and/or BPH-related surgery at four-year follow-up in both age cohorts.[104] Rates of adverse events did not appear to relate to age, and there was no significant difference in cardiovascular events between finasteride and placebo treatment in either age cohort.

Urodynamic parameter and Prostate Volume Measures

Previous analyses of randomized, placebo-controlled trials had shown a sustained improvement in peak flow rates superior to placebo. Previous analyses of randomized, placebo-controlled trials had shown a reduction in prostate volume by about 15-25% which is achieved at 6 months and sustained over time. This decrease in prostate volume is independent of baseline volume and baseline serum PSA values

Safety Outcomes

Previous analyses of randomized, placebo-controlled trials had shown that in the first six to 12 months of treatment, patients on finasteride experience ED, libido disturbances and ejaculatory problems at about twice the rate as the placebo control patients. Thereafter the rates are similar suggesting that age-related deterioration in sexual and ejaculatory function is responsible rather than direct drug effects. In PLESS sexual adverse events were reported more frequently with finasteride (15%) than placebo (7%) during the first year of the study ($p<0.001$), however, during years two through four no between-group difference was noted in the incidence of new sexual adverse events (7% in both groups).[105] Study discontinuation due to sexual adverse events occurred in 4% of finasteride patients and 2% with placebo.

A two-year open-label extension study of PLESS reported no difference in serious adverse events between the finasteride and placebo groups.[106] The most common drug-related sexual adverse events were erectile dysfunction (2% in the group on finasteride during the RCT and the open label extension, and 4% in the group switched to finasteride from placebo). The incidence of prostate cancer was 3% with both continuous finasteride and men switched from placebo to finasteride. The most common drug-related adverse effects were sexual, including ejaculation disorders (3.1% year ibe, 0.4% year six), decreased libido (3.8% year one, 0.7% year six), and erectile dysfunction (4.8% year one, 0.4% year six). One clinical center participating in this open-label extension study published data on their 43 study participants at up to 10 years of follow-up.[107] These authors noted that 7.0% of men discontinued therapy due to sexual side effects; they did not report specific adverse events.

In another open-label extension study, Vaughan and colleagues (2002) reported outcomes at seven to eight years of follow-up from two phase two, double-blind, three- to six-month clinical trials of finasteride compared with placebo.[108] The most common drug-related adverse events were erectile

dysfunction (year one of the open label extension study, 6.4%; year five, 1.2%) ejaculation disorder (5.8% year one; 3.7% year five), and decreased libido (11% year one; 1.5% year five).

Dutasteride

Randomized Controlled Trials (RCTs)

Dutasteride is the second 5-ARI approved by the U.S. Food and Drug Administration (FDA) for the use in men with LUTS and BPH.[109] Pharmacologically it differs substantially from finasteride in that it inhibits both isoenzymes of the 5-alpha reductase (vs. only type II), has a longer half-life (five weeks vs.. six to eight hours), and thus leads to a more profound reduction in both serum and intraprostatic DHT levels. Direct comparison trials have not been published, and when indirectly comparing efficacy parameters one has to remember that in all clinical trials with dutasteride patients had to have a baseline prostate volume of > 30 mL by TRUS and a serum PSA of > 1.5 ng/mL, thus enriching the population for potential responders to 5-ARI treatment.

The clinical database for dutasteride consists mainly of the phase-three randomized, placebo-controlled trial of two year duration [110] with an open label extension trial,[111] a study aiming to test the effect of a placebo-controlled withdrawal of an alpha-blocker from a combination therapy arm (SMART 1),[112] and a four-year study comparing dutasteride vs. tamsulosin vs. combination (CombAT) for which only the two year interim data are published [113].

Efficacy and Effectiveness Outcomes

Symptoms, Bother and Quality of Life

Roehrborn and colleagues (2002) randomized 4,325 men with BPH and moderate to severe symptoms to dutasteride 0.5 mg daily or to placebo and followed them for 24 months.[114] These data are pooled from three identical phase-three clinical trials, encompassing 400 sites in the United States and 19 other countries. AUA-SI improved significantly in both treatment groups ($p<0.001$), with significantly greater improvement with dutasteride (-4.5) compared with placebo (-2.3) ($p<0.001$).

In the CombAT Trial, I-PSS improved in all three treatment groups (combination -6.2, dutasteride -4.9, tamsulosin -4.3) and combination therapy was superior to both monotherapies at nine months through 24 months($p<0.001$).[113] Quality of life, BPH II, patient perception of study medication were assessed in the CombAT Trial, and combination therapy was found to be superior to both monotherapies, with dutasteride being superior to tamsulosin in these measures at 24 months.[115]

Urodynamic Parameter and Prostate Volume Measures

In the phase-three trials, Qmax increased by +0.6 ml/sec under placebo and +2.2 ml/sec under dutasteride (between-group $p<0.001$). In CombAT the increase in Qmax was greatest with combination (+2.4), and greater with dutasteride (+1.9) than with tamsulosin (+0.9) ($p<0.0001$) at 24 months.
In the phase three trials total prostate and transition zone volumes were reduced by a mean of -25.7% and -20.4%, respectively, in the dutasteride arm ($P <0.001$). In CombAT at month 24 the adjusted

mean% change in total prostate volume from baseline was −26.9% in the combination group, −28.0% in the dutasteride group and 0.0% in the tamsulosin group (combination vs. tamsulosin p <0.001 and combination vs. dutasteride p not significant). At month 24, the adjusted mean% change in transition zone volume from baseline was −23.4 in the combination group, −22.8% in the dutasteride group and 8.8 in the tamsulosin group (combination vs. tamsulosin, p <0.001; and combination vs. dutasteride, p-value was not significant).

Safety Outcomes

Progression Events

In the phase three trials, the relative risk of AUR with dutasteride vs. placebo was 0.43 (95% CI, 0.29 to 0.62) and the relative risk for BPH-related surgery was also significantly decreased [relative risk 0.52 (95% CI, 0.37 to 0.74)]. No progression data are available from the CombAT trial interim two-year analysis.

Adverse Events

In the phase three trial, withdrawal rates were similar between groups (30% with dutasteride and 33% with placebo).[114] Withdrawal rates due to adverse events (approximately 9%), and incidence of all treatment-emergent adverse events (approximately 75%) were similar between groups. ED, decreased libido, gynecomastia, and ejaculation disorders were more common with dutasteride than placebo (p<0.001).

In CombAT, any adverse event was reported at a rate of 63% to 65% in all three treatment groups.[113] Any drug-related adverse event occurred at a higher rate in the combination group (24%) than with dutasteride (18%) or tamsulosin (16%) (combination therapy vs. dutasteride or tamsulosin, p<0.001).

Combination Therapy

Randomized Controlled Trials (RCTs)

In the 1990s, two studies of 12 months duration were conducted testing the hypothesis that combination medical therapy may be superior to monotherapy.[116, 117] The VA CO-OP used placebo vs. terazosin vs. finasteride vs. combination, and the European PREDICT trial used doxazosin instead of terazosin. Both studies concluded that combination therapy was **not** superior to alpha-blocker monotherapy. They were criticized on account of the relatively short duration of only one year and the fact that patients were enrolled regardless of prostate size and serum PSA leading to a study population of at or below average sized prostates and serum PSA values. A meta-analysis had shown that finasteride was superior to placebo only in men with enlarged prostates and/or higher serum PSA values [101, 118].

The National Institues of Health/National Institute of Diabetes and Digestive and Kidney Diseases (NIH/NIDDK) also conducted in the 1990s a combination therapy study the primary outcome parameter being a composite progression endpoint.[119, 120] The MTOPS study enrolled over 3,000 men with at or below average sized prostates (similar to the VA COOP) and randomized them to placebo vs. doxazosin 4 mg or 8 mg daily vs. finasteride 5 mg daily vs. combination of doxazosin and finasteride. Men were treated and followed for up to 5.5 years. The risk of overall clinical progression--defined as an increase above base line of at least four points in the AUA-SI, AUR, urinary incontinence, renal insufficiency, or recurrent UTI was significantly reduced by doxazosin (39% risk reduction, $p<0.001$) and finasteride (34% risk reduction, $p=0.002$), as compared with placebo. The reduction in risk associated with combination therapy (66% for the comparison with placebo, $p<0.001$) was significantly greater than that associated with doxazosin ($p<0.001$) or finasteride ($p<0.001$) alone. The risks of AUR and the need for invasive therapy were significantly reduced by combination therapy ($p<0.001$) and finasteride ($p<0.001$) but not by doxazosin. Doxazosin ($p<0.001$), finasteride ($p=0.001$), and combination therapy ($p<0.001$) each resulted in significant improvement in symptom scores, with combination therapy being superior to both doxazosin ($p=0.006$) and finasteride ($p<0.001$) alone. Although not a primary outcome, symptom and flow rate improvement were superior in the combination therapy arm compared to both monotherapies.

The second major combination therapy study conducted was the CombAT trial in which 4,844 men were randomized to receive tamsulosin 0.4 mg vs. dutasteride 0.5 mg vs. combination therapy with both over four years; at present only the two year data are available and published.[113] In contrast to prior studies, but in keeping with the study protocol of only enrolling patients with prostatic enlargement in LUTS/BPH trials with dutasteride, men had to have a prostate volume > 30 mL by TRUS and a serum PSA of >1.5 ng/mL. Combination therapy resulted in significantly greater improvements in symptoms vs. dutasteride from month three and tamsulosin from month nine, and in BPH-related health status from months three and 12, respectively. A significantly greater improvement from baseline in Qmax for combination therapy vs. dutasteride and tamsulosin monotherapies from month six was also noted. There was a significant increase in drug related adverse events with combination therapy vs. monotherapies. The four-year data from CombAT are expected in 2009 and the primary endpoints will be progression to urinary retention and need for prostate surgery as well as symptom progression, similar to the MTOPS study.

When comparing results from MTOPS and CombAT differences must always be considered as they affect many aspects including the outcomes of the trials (Chapter 1, Table 1.3).

<u>Efficacy and Effectiveness Outcomes</u>

Symptoms, Bother and Quality of Life

MTOPS. The four-year mean reduction in symptom score was 4.9 in the placebo group, 6.6 in the doxazosin group, 5.6 in the finasteride group, and 7.4 in the combinationtherapy group (all active therapies superior to placebo).

CombAT. At month 24, mean decreases in I-PSS from baseline were 6.2 for combination therapy vs. 4.9 and 4.3 for dutasteride and tamsulosin, respectively. The decrease for combination therapy was significantly greater vs. that of either monotherapy (each comparison p<0.001). Superior improvements for combination therapy were also reported regarding storage and voiding subscores as well as BPH II, QoL scores and other humanistic questionnaires.

Urodynamic Parameter and Prostate Volume Measures

MTOPS. Maximal urinary flow rate improved over time in all active-treatment groups as compared with placebo (p<0.001 for each pairwise comparison). At four years, the mean improvement was 4.0 mL per second in the doxazosin group, 3.2 mL per second in the finasteride group, and 5.1 mL per second in the combination-therapy group.

CombAT. At month 24 increases in Qmax from baseline were 2.4 mL/sec for combination therapy vs. 1.9 and 0.9 mL per second for dutasteride and tamsulosin, respectively. At month 24 the adjusted mean percent change in total prostate volume from baseline was −26.9% in the combination group, −28.0% in the dutasteride group and 0.0% in the tamsulosin group (combination vs. tamsulosin, p<0.001 and combination vs. dutasteride, p-value not significant).

Safety Outcomes

Progression Events

MTOPS. Progression was defined as a twice verified worsening of the I-PSS by four points or greater *or* renal insufficiency *or* urinary retention *or* incontinence *or* recurrent UTI *or* renal insufficiency, the last occurring never, and the first being the most common accounting for 78% of all progression events. Over the duration of the study, the rate of overall clinical progression among men in the placebo group was 4.5 per 100 person-years. As compared with placebo, doxazosin reduced the risk of progression by 39%, to 2.7 per 100 person-years (p<0.001), and finasteride by 34%, to 2.9 per 100 person-years (p=0.002). The reduction in risk associated with doxazosin did not differ significantly from that associated with finasteride. As compared with placebo, combination therapy reduced the risk of overall clinical progression by 66%, to 1.5 per 100 person-years (p<0.001), a significantly greater reduction than was induced by either drug alone (p<0.001 for each pairwise comparison of combination therapy with monotherapy, with one degree of freedom).

CombAT. Not reported at the two-year interim analyses.

Adverse Events

MTOPS. The most common adverse events that occurred more frequently in the doxazosin group than in the placebo group were dizziness, postural hypotension, and asthenia. The most common adverse events that occurred more frequently in the finasteride group than in the placebo group were erectile dysfunction, decreased libido, or abnormal ejaculation. The individual adverse effects in the combination-therapy group were similar to those for each drug alone, with the exception of abnormal ejaculation, peripheral edema, and dyspnea, all of which occurred more frequently in patients taking both drugs.

CombAT. Drug related adverse events that were numerically more common in the combination group than in either monotherapy group were erectile dysfunction [7.4 vs. 6.0 (dutasteride) vs. 3.8 (tamsulosin)], retrograde ejaculation [4.2 vs. 0.6 (dutasteride) vs. 1.1 (tamsulosin)], altered (decreased) libido [3.4 vs. 2.8 (dutasteride) vs. 1.7 (tamsulosin)], ejaculation failure, semen volume decreased, loss of libido and nipple pain.

Anticholinergic Agents

Anticholinergic agents interrupt the interaction between acetylcholine and cholinergic (muscarinic) receptors (M1, M2, M3, M4, and M5). In the human bladder, the subtypes M2 and M3 are most predominant. While there are mostly M2 receptors in the bladder, the M3 receptors are primarily responsible for bladder contraction.[121] Blockade of this interaction results in a reduction in smooth muscle tone and theoretically an amelioration of diseases associated with excess contraction of these muscles. These drugs have typically been used to treat overactive bladder symptoms (OAB) in men and women. Recognizing that symptoms of OAB and LUTS secondary to BPH overlap, it is certainly possible that LUTS in many men who suffer from this condition may in fact be due to bladder dysfunction. For this reason, the use of anticholinergic agents is reasonable to consider in men with LUTS notwithstanding the concern about the development of AUR in those with potential BOO. For reference, detailed evidence tables reviewing the studies evaluated by the Panel are provided in Appendix A8.

Tolterodine

Tolterodine is a competitive muscarinic receptor antagonist. It acts on the M1, M2, M3, M4, and M5 muscarinic receptors and is indicated for the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and frequency. Generic tolterodine is available in 1 mg and 2 mg doses for twice daily use, and long-acting (LA) or extended-release (ER) tolterodine formulations are available in 2 mg and 4 mg doses for once-daily use.

Randomized Controlled Trials (RCTs)

There were only a small number of published studies on the use of anticholinergic agents either as monotherapy or in combination with other medical therapy for the treatment of BPH-related LUTS that met the inclusion criteria for this analysis. Three RCTs were identified; however they do not

sufficiently demonstrate the efficacy or effectiveness of tolterodine.[63, 122, 123] Although RCTs, these studied have limited patient enrollment and predominately report secondary, qualitative outcomes for assessment of BPH treatment response as compared to quantitative outcomes such as the I-PSS, uroflow, and serum PSA which makes analysis and comparison of these data difficult.

RCTs investigating treatments utilizing anticholinergic agents other than tolterodine for the treatment of LUTS secondary to BPH do not exist. Future studies investigating the effects of the newer agents on men with LUTS may be beneficial.

Single-group Cohort Studies

Two single-group cohort studies were identified. The first was a large prospective study that involved 1,080 men and evaluated men with LUTS/BPH for whom tolterodine 4 mg daily was prescribed for the treatment of frequency, urgency, or urgency incontinence and Qmax of at least 15 mL per second.[124] The cohort included men without BOO and men on alpha blocker therapy who had not improved after six weeks of treatment. Overall, 42% of men had tolterodine added to unsuccessful alpha antagonist treatment. Median I-PSS scores decreased from 17 to 10. Mean post-void residual did not increase although two patients did develop AUR requiring catheterization.

A second cohort study examined 43 consecutive men with BPH and LUTS in whom a mean of 5.7 months of alpha blocker treatment had failed due to lack of efficacy or adverse events.[125] Mean 24-hour micturition frequency decreased from 9.8 to 6.3 voids and nocturia decreased from 4.1 to 2.9 episodes nightly. Significant changes in the AUA-SI (-6.1), Qmax (1.9 mL per second), and post-void residual (-22 mL) were also observed.

Efficacy and Effectiveness Outcomes

Morbidity

The available data shows that the use of tolterodine as monotherapy or in combination with an alpha antagonist does not appear to increase the risk of urinary retention as compared to placebo. Mortality associated with the use of tolterodine was not reported.

Symptoms and Quality of Life

The three RCTs all have limited patient enrollment and predominately report secondary, qualitative outcomes for assessment of BPH treatment response. Only one study reported the use of the total AUA/I-PSS and found that combination therapy with tamsulosin and tolterodine significantly improved total I-PSS as compared with placebo.[63] There was no significant difference in total I-PSS changes from baseline between tamsulosin and tolterodine monotherapies.

In the largest of the three trials, combination therapy with tolterodine 4 mg daily and tamsulosin 0.4 mg demonstrated similar efficacy in QoL (*Urolife BPH Quality of Life 9 Questionnaire*) as monotherapy with tamsulosin primarily suggesting an alpha antagonist effect. Monotherapy with

tolterodine was not significantly different than treatment with placebo in total QoL outcomes.[63] Athanasopoulos et al found that QoL improved only in the combination group of tolterodine and tamsulosin as compared to tamsulosin alone.[123]

Pressure, Flow, Volume Outcomes

Abrams et al (2006) compared tolterodine to placebo and demonstrated no significant differences in maximum flow rates between the two groups however a statistically significant reduction in detrusor pressure at maximum flow in the tolterodine group was found.[122] Interestingly, post-void residual increased in both groups. In the study by Athanasopoulos et al when comparing tamsulosin alone vs. the combination with tolterodine, maximum flow rate improved in both groups, and QoL improved in the combination group, however, neither group experienced a significant reduction in post-void residual.[123]

Prostate-Specific Antigen Levels

There are no studies on the relationship between PSA, prostate size, and the effect of tolterodine for treatment of BPH/LUTS.

Predictors of Efficacy, Effectiveness and Harms

The included trials did not evaluate predictors of efficacy, effectiveness, or harms with the use of tolterodine.

Safety Outcomes

Withdrawals and Adverse Events

Randomized Controlled Trials. Three RCTs reported similar adverse event and withdrawal rates. In the study by Abrams et al (2006) in which men were randomized to either tolterodine 2 mg twice daily or placebo, the total number of adverse events was similar between the tolterodine (58%) and placebo (51%) groups.[122] The rates of withdrawal due to adverse events were also similar between tolterodine (6%) and placebo (7%). Dry mouth was much more common with tolterodine (24%) compared with placebo (1%). Other specific adverse events including urinary retention were reported at similar rates between the tolterodine and placebo groups.

In a smaller unblinded trial, 50 men were randomized between monotherapy with tamsulosin 0.4 mg and combination therapy with tamsulosin and tolterodine 2 mg twice daily.[123] The overall withdrawal rate due to adverse events was 8% with 4% of men withdrawing due to an adverse event in the monotherapy group and 12% in the combination group. Dry mouth was the cause for withdrawal in 8% of men in the combination group. No events of urinary retention were reported.

In a large double blinded, placebo controlled study by Kaplan and colleagues (2006), 879 men were randomized to either daily tamsulosin 0.4 mg, daily tolterodine ER 4 mg,daily combination therapy

with both medications and placebo.[63] The overall withdrawal rate due to an adverse event was 14% in this study. Dry mouth was the most commonly reported adverse event, occurring in 21% of men using combination therapy and in 7% of men in each of the monotherapy groups. The rates of AUR were low (<0.5%) in all treatment groups.

ED and ejaculation disorders were not reported with the use of tolterodine alone. Ejaculatory disorders were reported with tolterodine in combination with tamsulosin in 3.0- 4.3% of men.[63, 122, 123] Significant morbidity and mortality as a result of tolterodine use was not reported in any of the available RCTs.

Single-group Cohort Studies. Two single-group cohort studies using tolterodine ER 4 mg daily were reviewed. In the largest study in which 1,080 men were enrolled, the total withdrawal rate was 14.3% where 1.6% withdrew due to specifically to an adverse event and 3.2% withdrew due to a lack of efficacy.[124] In the second single group cohort study of 43 consecutive men four (9%) withdrew due to dry mouth.[125]

Summary

Anticholinergic agents are not approved by the FDA for the treatment for LUTS secondary to BPH. There are data however to suggest that the use of anticholinergics may be beneficial in the amelioration of LUTS in some men. Tolterodine has been the only anticholinergic agent significantly studied in men with LUTS to date. One study exists suggesting that the combination of tamsulosin and tolterodine (an anticholinergic agent) significantly improved total I-PSS compared to placebo and monotherapy with either agent.

Complementary and Alternative Medicines (CAM)

Most CAM therapies used for BPH are dietary supplements. These products are usually extracts of plants (phytotherapy) used alone or in combination. They are available over-the-counter in the United States[126] and as a result, most patients who use dietary supplements self-medicate with these products and often do not inform their physicians about their use.[127] The Dietary Supplement Health and Education Act, passed by the United Stages Congress in 1994, specifically exempted manufacturers of dietary supplements from prospective oversight by the FDA and requires manufacturers to demonstrate safety and efficacy prior to marketing.[128] Consumers and physicians, therefore, often have limited data of uncertain quality on which to make judgments about the wisdom of using or recommending a dietary supplement for the treatment of a medical condition. Furthermore, the quality and purity of these over-the-counter supplements are not rigorously monitored, adding further uncertainty about the value and safety of these products.[129-131]

Among the dietary supplements, the most commonly used, and the product for which the greatest evidence exists, is an extract of the berry of the saw palmetto plant (*Serenoa repens, Sabal serrulata*). Other products commonly marketed for BPH therapy include extracts of the African plum

tree (*Pygeum africanum*), stinging nettle (*Urtica dioica*), pumpkin seed (*Curcubita pepo*), South African star grass (*Hypoxis rooperi*) and rye pollen (*Secale cereale*).[132] Despite many years of research and a large number of publications, the quality, size, and length of most studies are suboptimal, making it impossible to offer firm recommendations and clear clinical guidance. Most studies have been small and very short in duration (often three months or less), and have used products of uncertain quality and purity and inadequate analytic strategies and outcome assessments for both efficacy and safety. Better studies have begun to appear in the literature recently, and these are included in below but the overall quality of the literature in this area remains poor. Apart from these few dietary supplements, saw palmetto and *Urtica dioica*, no other CAM modality has a sufficient evidence base to merit discussion about recommendations. For reference, detailed evidence tables reviewing the studies evaluated by the Panel are provided in Appendix A8.

Single-extract Products

Saw Palmetto

The saw palmetto plant is a dwarf palm tree that grows predominantly in the southeastern United States. Extracts of the saw palmetto berry have been used for centuries for treatment of LUTS and have become extremely popular in recent years for BPH therapy in Europe and the United States.

In vitro evidence suggests that saw palmetto extracts might have pharmacologic properties that would be expected to relieve BPH-related symptoms. Several lines of evidence of variable quality have proposed that saw palmetto has 5-ARI activity, anti-inflammatory effects, and anti-proliferative properties.[133]

A prior Cochrane meta-analysis (dated January 2002) found 21 randomized trials of saw palmetto and concluded that the evidence supported a modest beneficial effect of saw palmetto on both symptoms and flow rates and found few adverse effects associated with its use.[134] A recent update of this systematic review (dated April 2009), incorporating more recent trials, concluded that, "*Serenoa repens* was not more effective than placebo for treatment of urinary symptoms consistent with BPH."[135]

Since the prior publication of the 2003 Guideline, three new placebo-controlled trials compared saw palmetto with placebo.[136-138] These trials employed sample sizes of 85 to 225 participants with follow-up times lasting three to 12 months. All trials used a dose of 320 mg per day of the extract in single or divided doses.

In addition to the placebo-controlled trials, two trials compared saw palmetto 320 mg/day with tamsulosin 0.4 mg/day.[139, 140] Five other trials examined combinations of dietary supplements, in which one of the constituents was saw palmetto (see below).

Efficacy and Effectiveness Outcomes

Symptoms and Quality of Life

AUA-SI. Among the three most recently reported placebo-controlled trials, two found no significant between-group differences in AUA-SI scores at study closeout.[136, 138] The largest of these found a between-group difference of only 0.04 points with a 95% CI (-0.93 to 1.01 points) that excluded a clinically meaningful difference in AUA-SI scores between the saw palmetto and placebo groups.[136] The smaller study reported a 1.7-point between-group difference with a confidence interval of -0.5 to 4.0,[138] an interval that does not exclude a difference of at least three points, which is often considered a clinically meaningful change in AUA-SI scores.[141]

One trial found a modest benefit of saw palmetto compared to placebo (a between-group improvement in AUA-SI scores of 2.2 points; $p = 0.04$), though no parallel changes in any objective measurement of urinary function was found and 22% of participants had baseline Qmax values greater than 15 mL per second.[137]

One of the two trials that compared saw palmetto with tamsulosin in 704 men reported a decline in AUA-SI scores of 4.4 points in both treatment groups;[139] the other also reported no significant difference in the change in symptom scores among 40 randomized men.[140] Despite an apparent improvement in symptoms among the participants in each treatment group, within-group comparisons are of little value for assessment of specific pharmacologic efficacy of any supplement, as this response may be due to regression to the mean and a strong placebo effect.

BPH Impact Index. The BPH II is a four-item self-administered questionnaire designed to assess the impact of a patient's BPH symptoms on his general activities and perceptions of health. Bent et al (2006), found a nonsignificant difference in between-group changes in BPHII scores [-0.24 points (favoring saw palmetto) with a 95% CI: -0.60 to 0.13].[136] The BPHII was not assessed in either of the other two placebo-controlled studies nor in the studies comparing saw palmetto with an alpha blocker.[139, 140]

International Prostate Symptom Score Quality of Life Item. Most studies measured changes in the single QoL question from the I-PSS. In the two placebo-controlled studies reporting this outcome, there were no significant differences between groups in changes in the QoL question,[137, 138] despite the fact that one study found a significant difference in AUA-SI scores.[137] The largest placebo-controlled study did not report this outcome separately.[136]

In the two comparisons of saw palmetto with the alpha blocker tamsulosin, there was no significant difference in changes in LUTS-related QoL between the treatment arms.[139, 140]

Sexual Functioning. The O'Leary Sexual Functioning Questionnaire was measured in two of the placebo-controlled studies.[136, 137] In both studies, only small changes in any treatment group were observed over the follow-up periods and there were no statistically significant or clinically meaningful differences in changes between groups. The results were similar in the one trial with tamsulosin-treated controls that reported sexual-functioning outcomes; this study also reported that saw palmetto-allocated participants had fewer ejaculatory disturbances compared to those assigned to the alpha-blocker.[139]

Other Outcomes. The largest placebo-controlled study found no significant differences between groups in either the mental or physical subscales of the SF-36 scores.[136]

Pressure, Flow, Volume Outcomes

Peak Urinary Flow. Peak urinary flow was reported in all placebo-controlled trials. None of the trials reported a significant difference in Qmax between saw palmetto and placebo-treated participants, including the one trial that did find a difference in symptoms.[142, 137] The active-controlled studies comparing saw palmetto with tamsulosin also found no significant difference in urinary flow rates at closeout.[139, 140]

Postvoid Residual. Bent et al (2006) reported only small overall changes in PVR for both treatment groups in their study with small, nonsignificant differences between groups (-4.5 mL (favoring placebo), 95% CI: -24.4 to 15.4).[136] Neither of the other two placebo-controlled studies reported outcomes for PVR.[137, 138]

One of the tamsulosin-controlled studies reported similar reductions in PVR among treatment groups (declines of 23.6 to 28.1 mL, $p = 0.42$).[140] The other study did not report PVR results .[139]

Prostate Volume. One placebo-controlled trial reported changes in prostate size as measured by TRUS; in this study, the overall difference in prostate volume changes was -1.2 mL (favoring placebo; 95% CI: -3.9 to 1.5 mL). The change in the transition-zone volume was 1.3 mL (95% CI: -1.6 to 4.1 mL) (Bent 2006).[136]

In the two active-controlled trials, changes in prostate volume were $\leq$1.0 mL in all treatment groups with no significant between-group differences (p= 0.27[139] and p= 0.6[140]).

Safety Outcomes

Adverse Events

No significant differences in rates of adverse events were found between the two arms of all placebo-controlled trials, though only one study conducted thorough laboratory testing for potential toxicity.[136] The active-comparator trials (saw palmetto vs. tamsulosin) also found no significant difference in adverse events with the exception of a greater frequency of ejaculatory disturbances among participants randomized to the alpha blocker in one study.[139] Substantial evidence suggests that saw palmetto does not affect serum PSA levels.[136, 139, 143-145]

Urtica Dioica

In addition to saw palmetto, the only other single phytotherapeutic with recently published data is an extract of the stinging nettle plant (Urtica dioica). Prior studies of Urtica have been inconsistent; few trials of a pure Urtica extract exist.

Prior studies of Urtica dioica suggested that it may have moderate efficacy for treatment of BPH with few adverse effects. The recent single-extract study was a placebo-controlled RCT of Urtica (100 mg

daily) for six months in men with moderately severe symptoms of BPH.[146] Two studies of combination products containing Urtica dioica are discussed below.

Efficacy and Effectiveness Outcomes

Symptoms and Quality of Life

The single-extract study showed a substantially greater decline in the AUA-SI among the active-treatment group (-7.0 points) compared to the placebo-treated participants (-1.5 points, $p = 0.002$)[146], a difference that would generally be considered to be clinically meaningful. The BPH II, I-PSS QoL item, and sexual functioning were not assessed in this study.

Pressure, Flow, Volume Outcomes

Peak Urinary Flow. In this trial, the Qmax was substantially improved in the Urtica-treated group compared to the placebo group (+8.2 vs. +3.4 mL per second, $p< 0.05$).[146]

Postvoid Residual. Postvoid residual volume declined to a greater extent in the active treatment group compared to the placebo group (37 vs. 3 mL, $p<0.001$).[146]

Prostate Volume. Prostate volume, as measured by TRUS, decreased by 3.8 mL among the participants randomized to Urtica while the decrease was only 0.2 mL among those randomized to placebo; this difference in change scores was not statistically significant.[146]

Safety Outcomes

Adverse Events

No adverse events in either treatment group were reported in this trial and withdrawal rates were similar between the two arms.[146] PSA levels were essentially unchanged in the two groups over the course of the six-month study.

Combination Products

Phytotherapies for BPH are often sold as combination products, containing a blend of extracts proposed to be helpful for LUTS. Most of these products contain saw palmetto in addition to a variety of other dietary supplements. Among the more recently published randomized trials, six studies have reported comparative effects of five different herbal blends: two trials of a combination of saw palmetto and Urtica dioica (one placebo-controlled[147], the other using a tamsulosin comparator[148]), three placebo-controlled trials of a product containing saw palmetto[149-151] and one trial of an Ayurvedic herbal blend of phytotherapies that did not contain saw palmetto.[152]

Sample sizes for these trials ranged from 40 to 257 and follow-up times varied from three months to 15 months. All trials used the AUA-SI as the primary outcome measure; secondary outcomes and completeness of adverse-event assessments varied among the trials.

Efficacy and Effectiveness Outcomes

Symptoms and Quality of Life

AUA-SI. The two largest trials of saw palmetto-containing herbal combinations showed significant improvements in the active-treatment arms compared to the placebo arms;[147, 150] the two smaller trials found no significant differences but may have been hindered by insufficient statistical power[149, 151] (the first of these was a mechanistic study and was not intended to be fully powered for symptom outcomes). The tamsulosin-comparator trial with the saw palmetto-containing product found no differences between the treatment arms,[148] while the trial of the combination product without saw palmetto reported a significantly greater improvement in AUA-SI among the participants allocated to the herbal-treatment group.[152]

BPH Impact Index. The effect of study treatments on BPHII were not reported in any of these studies.

I-PSS QoL Question. The only trial of this set to report on changes in the QoL item from the I-PSS reported that the effect of the saw palmetto-Urtica blend was noninferior to the effect of tamsulosin.[148]

Sexual Functioning. The same study reported no effect of either the saw palmetto-Urtica blend or the alpha-blocker on indices of sexual or erectile functioning over the course of the trial.[148]

Other Outcomes. No other clinically relevant outcomes were reported in these trials. Marks et al (2000) reported that participants treated with a saw palmetto blend had a greater reduction in% epithelium and an increase in the percent of atrophic glands in biopsy specimens.[149]

Pressure, Flow and Volume Outcomes

Peak Urinary Flow. Peak urine flow outcomes were not reported for either of the active-comparator trials. Among the four placebo-controlled trials of saw palmetto-containing compounds, three found no significant difference between treatment groups while one reported a small but significant difference between groups.[151]

Post-void Residual. Three studies found no significant differences in changes in PVR between the active-treatment and placebo groups over the study period.[149, 150, 152]

Prostate Volume. Prostate volume was measured in two placebo-controlled studies of saw palmetto-containing combination products. In both of these trials, there was little change in overall prostate size and no significant differences between groups in observed changes in the prostate volume.[149, 151]

Safety Outcomes

Reported adverse events and withdrawal rates were generally low among all arms of all reported studies.

Minimally Invasive Therapies

Transurethral Radiofrequency Needle Ablation

Transurethral radiofrequency needle ablation (TUNA) of the prostate for treatment of the manifestations of BPH employs a cystoscope-like device. The lumen of the prostatic urethra is directly visualized with an endoscope and two needles are inserted from the prostatic lumen laterally into the prostatic adenoma. A double needled is inserted on both the right and left sides (some have likened the appearance to the antennae of a butterfly). Each needle simultaneously emits radiofrequency energy sufficient to heat the prostate to a temperature exceeding that necessary to cause prostatic tissue necrosis in an oval-shaped lesion around the needle tips. Four areas of necrosis result from each round of treatment, which lasts several minutes. Depending on prostatic size and length, multiple dual insertions at different levels along the length of the prostate may be utilized. The concept is to heat the transition zone of the prostate while sparing the urethral mucosa; preserving the mucosa reduce pain and improve patient tolerance. Over time the necrotic tissue will be absorbed, reducing prostatic volume. Considerable literature has been generated evaluating the prostate morphology before and after TUNA using TRUS, MRI, PSA and endoscopy to evaluate this volume reduction issue. The conclusion now is that the reduction in prostatic volume is less than initially anticipated. BPH histologic architecture is likely replaced, in part, with scar, leaving a modest at best volume reduction.

Efforts have turned to identifying possible alternative mechanisms of action for TUNA. Concepts such as prostatic muscle dysfunction, alpha adrenergic nerve dysfunction and other concepts were proposed; however, no clear conclusion has been reached. Attempts to identify favorable candidates for TUNA, both in terms of short-term response and in durability of improvement, have also been found to be difficult and inconsistent. Currently the only device available in the United States is the TUNA device marketed by Medtronic.

Randomized Prospective Trials

Four randomized, prospective trials comparing TUNA to TURP have been published. Roehrborn et al (1999) summarized outcomes of I-PSS, QoL, detrusor pressure and maximum urinary flow at six months and Hill et al (2004) provided five-year follow-up including I-PSS, QoL, max flow and post-void residual (PVR) in the same group of 121 patients.[7, 153] Hindley et al (2001) compared TUNA to TURP in 50 patients at 24 months, reporting on AUA-SI, QoL, maximum urinary flow and detrusor pressure.[154] No significant short-term complications, including need for transfusion, were reported in either arm of these three reports, nor was bleeding reported a fourth randomized trial.[155] Operative time for TUNA was 44 minutes compared to 55 minutes for TURP in this last report.[155]

Roehrborn et al (1999) found that AUA-SI decreased from 20 to 10.8 points in the TUNA group and the TURP patients had a score of 8.1 at six months.[7] By five years Hill et al (2004) reported that I-PSS (not AUA SI as originally reported by Roehrborn et al (1999) in the same patients) was now 11.7 and 7.8

for TUNA and TURP, respectively.[153] Hindley et al (2001) reported decreases in I-PSS at 24 months from 25 points to nine for TUNA and three for TURP.[154] **The Panel concludes that, based on these reports, the symptom improvement is significant and sustained for both treatments, with somewhat greater improvement in the symptom score for TURP.**

A similar trend can be seen for QoL in the Roehrborn et al (1999), with significant improvements at six months in both arms, but with TURP QoL the improvement was better than with TUNA.[7] The improvement for both arms was sustained at five years but there was a slight deterioration in both arms.[153] The Hindley et al (2001) recorded similar QoL changes.[154]

Maximum flow improvement in the Roehrborn report went from 8.8 mL per second at baseline to 13.5 and 20.8 mL per second for TUNA and TURP, respectively.[7] Hill et al (2004) found little change in flow for either TUNA or TURP over six month result when examining five year data from the same trial.[153] On the other hand, Hindley et al (2001) found much less improvement in flow for TUNA; the maximum flow improved from 8.5 to 9.8 mL per second for TUNA and from 9 to 18.4 mL per second for TURP.[154] Hill et al (2004) reported retreatment with TURP in 9/65 (14%) of TUNA treated-patients whereas one (2%) of TURP patients received TUIP retreatment.[153] One patient in the Hindley et al (2001) TUNA-treated group went on to subsequent TURP.[154] Hill et al (2004) reported no retrograde ejaculation for the TUNA group but a 41% incidence for the TURP arm.[153] ED developed in 3.1% of TUNA-treated patients and 21.4% of TURP-treated patients. This ED rate for TURP is significantly higher than generally reported for TURP.

In summary, these four randomized trials established that statistically significant improvements occur for symptoms, QoL, and urinary flow, with the exception of the Hindley et al (2001) study which reported a small improvement in maximum flow rates for TUNA. Short-term complications, including the need for transfusion, are uncommon or nonexistent. Erectile dysfunction and retrograde ejaculation are more common with TURP than TUNA, and generally very few sexual side effects are seen with TUNA. Retreatment rates are considerably higher for TUNA than TURP.

Single-Group Cohort Studies

Nine single-group cohort studies involving TUNA were identified in the literature. Four are larger group studies;[156-159] the others included fewer than 50 patients. These cohort studies are often retrospective and occasionally stated to include consecutive patients. These studies confirm that symptom scores, QoL and Qmax improve in a fashion very similar to that reported in the randomized trials and will not be detailed again here. Likewise these cohorts confirm that retrograde ejaculation is very rare to nonexistent. But these studies, which range in follow-up from two years to as long as 10 years, provide additional information on perioperative bleeding, patient selection, and need for retreatment. These issues are summarized.[157, 160, 161]

Generally these studies focused on patients who had failed medical therapy for BPH, with one exception in which previously untreated patients were recruited.[159] The prostates in these studies were

moderately enlarged, ranging from 38 to 57 mL.[161, 162] Rosario et al (2007) performed TUNA on six anticoagulated patients and encountered no significant bleeding, establishing that TUNA has a role in the actively anticoagulated patient.[158] These studies do not provide enough data on comorbidities to draw a conclusion about performing TUNA on patients with significant comorbidities. Significant procedure-related bleeding, which was not encountered in the randomized trails, did occur in two of 30 patients and required catheter balloon traction to control bleeding.[162] Another report encountered one case of bleeding (in one of 70 patients) requiring bladder irrigation.[158] Thus, bleeding is unusual but a risk nonetheless.

In the cohort studies, rates of urinary retention and the need for catheterization varied greatly but were common. Rosario et al (2007) noted that only one of their first nine patients voided after the procedure so they adopted routine postprocedure catheterization for all patients for seven days.[158] Specific practice variations and attitudes such as this make it difficult to discern the rate of retention and duration of retention. In another series, the failure to void rate by day one after TUNA was 32% with subsequent catheterization duration averaging 6.3 days.[163] High rates of retention were reported in other series as well.[162, 164]

Retreatment was common in studies with longer follow-up. Fujimoto and colleagues (2003) reported that 13 of 41 patients had either TURP or pharmacotherapy with 24 months of TUNA.[160] In a study with a median follow up of 112 months, 83% of 70 patients had deterioration of symptoms over time and of these, 50% had invasive therapy and 20% had drug treatment for BPH.[158] Zlotta et al (2003) reported retreatment rates of 23% by five years with more than half of retreated patients opting for invasive treatment.[159]

Attempts have been made to identify preoperative parameters that might predict success or failure. In a group of 41 patients, prostate volume and prostate transition zone volume decreased significantly at three months and the difference was not significant at 12 months; when patients were evaluated for differences in baseline prostate volume and transition zone, no differences were found between responders and those patients who fared less well.[160] In another study of 24 patients, 10 had obstructed voiding patterns. They were more likely at baseline to be over the age of 70, have a higher detrusor pressure, a greater residual volume and a worse QoL score.[165]

Summary

The Panel concludes based on the available literature that there remains a degree of uncertainty regarding TUNA because of a paucity of higher quality studies. There are only three prospective randomized trials (one trial is reported at two time points) and all reports taken together lack sufficient detail on the comorbidity of subjects. Most are cohort trials and the reporting of results varies considerably. Since the 2003 Guideline, little new information has been published. For reference, detailed evidence tables reviewing the studies evaluated by the Panel are provided in Appendix A8.

TUNA is safe with low perioperative complications including bleeding. TUNA has a low to nonexistent rate of sexual dysfunction and is attractive for that alone. Improvements in symptoms, QoL and urinary flow rates are significant but do not generally match the result of TURP and the bulk of the literature suggests a high retreatment rate when patients are observed over many years.

Transurethral Microwave Thermotherapy

Transurethral microwave thermotherapy (TUMT) has evolved through several iterations over the past 15 years. These have included variations in the route of administration (transrectal vs. transurethral), energy levels (low vs. high), and concomitant urethral cooling. The early 1980's and 1990's saw the advent of the first TUMT machines, beginning with the Primus (Tecnomatix Medical, Brussels, Belgium) prostate machine and the Prostathermer (Biodan Medical Systems Ltd., Rehovot, Israel), originally developed to treat prostate cancer. These systems were responsible for the term "hyperthermia" that evolved to describe their mechanism of action. Hyperthermia techniques failed, however, since early devices were unable to generate temperatures sufficient to ablate prostatic tissue and to adequately target the transition zone transrectally. Newer TUMT devices would seek greater temperatures (i.e., "thermotherapy,") as well as a transurethral approach to target the transition zone. EDAP-Technomed (Lyon, France) developed a TUMT device in the early 1990's that could achieve interstitial temperatures of 50°C to 80°C. These use of these higher temperatures led to the development of cooling systems to offset the higher energy effects on the urethra, bladder neck and adjacent tissues. The early cooling systems initially used in second generation TUMT devices were not highly efficient and often deeper lesions than intended were created in the prostatic peripheral and central zones. The development of thermotherapy devices also led to the new goal of TUMT paralleling the tissue ablation seen with TURP. Manufacturers have therefore continued developing higher energy systems with more complex and efficient cooling systems, leading to more effective third generation systems. These modifications have allowed higher microwave energy delivery while decreasing urethral morbidity. Ultimately, heat to the transition zone with preservation of the urethra mucosa would lead to delayed coagulation necrosis with comcomitant decreases in pain during the procedure and the ability to perform the procedure in an office setting.

<u>FDA-Approved Transurethral Microwave Thermotherapy Devices</u>

TMx-2000™ (TherMatrx®, American Medical Systems)

The TMx-2000™ system represents the lowest power (23W) TUMT device available, which operates at 915MHz and lacks a cooling mechanism. The catheter offers variable radiating helical coil lengths: 2.5 cm for prostatic urethral lengths of three to four cm, 3.5 cm for four to five cm length prostates and 4.5 cm for five to 5.7 cm length prostates. The TMx-2000 is contraindicated in patients who have received previous pelvic radiation and is FDA-approved only for symptomatic relief, not for improvement in urodynamic parameters or obstruction.

Prostatron® (Urologix, Inc.)

The original Prostatron device utilized a monopole antenna that exhibited significant backheating. The updated version of this antenna now employs an active urethral cooling system to compensate for backheating. It operates at a frequency of 1296 MHz, significantly higher than other TUMT systems and is capable of generating up to 80W of power.

Targis® (Urologix, Inc.)

A second generation microwave device, the Targis® system uses a dipole antenna with frequencies in the range of 902 to 928 MHz. The catheter balloon in the Targis system is inflated with water and positioned 0.4 cm away from the end of the antenna. Targis is unique in that it uses coolant water at 8°C during therapy to protect the urethra and bladder neck. Contraindications to Targis include a prostatic urethral length less than three cm and middle lobe enlargement. A third generation update to the Targis design employs an expandable urethral balloon along with changes in the device catheter to more effectively cool the urethral surface during treatment, allowing greater safe energy delivery to the prostate (Cooled ThermoCath®, CTC, Urologix, Inc.). The treatment time has been decreased to 28.5 minutes.

CoreTherm™® (Prostalund, Inc.)

CoreTherm® represents the only TUMT device to use an interstitial probe with three sensors to monitor intraprostatic temperature, thereby providing a mechanism to control and adjust the volume of tissue ablation.[166] It operates at a frequency of 915 MHz with three different length catheters: white (for prostates greater than 55 mm in length), blue (for prostates 30 to 55 mm), and yellow (for prostates less than 30 mm) and can deliver up to 100W of power. The heat distribution of the system reflects the backheating component, where an exposed inner conductor is positioned at the tip of a coaxial cable.

Prolieve™ (Boston Scientific Corporation)

The Prolieve™ system uses a frequency of 915 MHz with a monopolar antenna. It contains an expandable urethral balloon that inflates with circulated water maintained at 34°C. Despite the expected loss of energy that would be anticipated from heat dissipation with this large volume of cooling water, the system is capable of running at 50W to achieve interstitial temperatures of 41°C to 46°C.

Study Outcomes

Initial studies evaluating the efficacy of TUMT utilized low-energy protocols, mostly with the Prostatron device. Dahlstrand et al (1995) compared 32 patients treated with TURP vs. 37 patients treated with low energy TUMT.[167] Improvements were seen in Madsen-Iversen symptom score, PVR, and free flow rate, up to 24 months posttreatment, although improvements in the last category were

more pronounced with TURP. High energy (HE) TUMT was then developed to increase tissue destruction and theoretically yield greater improvements in voiding ability. These newer devices included Prostatron® 2.5 and Targis®, as well as the Urowave (Dornier Medical Systems, Inc., Wessling, Germany). Others now include Prolieve™ (Boston Scientific Corporation), TMx-2000™ (American Medical Systems) and CoreTherm® (Prostalund, Inc.). Generally, data from one manufacturer's device cannot be applied to other manufacturers' devices since each has unique power delivery characteristics, resulting in differing levels of tissue destruction.

TMx-2000™

The TMx-2000™ system was studied in a multi-institutional, randomized trial including 119 patients in 2002.[168] At three months after study initiation, patients were allowed to cross over from sham to active treatment. Statistically significant declines in AUA-SI (22.4 to 10.6) were seen at 12 months, although recatheterization was required in 16.8% of patients. Maximum Qmax increased from 8.9 to 13.5 mL per second. No major adverse events were noted. A 2003 update to this experience confirmed improvements in AUA-SI, although urodynamics data was not provided.[168]

Prostatron

D'Ancona et al (1998) compared the 2.5 year outcome of HE-TUMT using the Prostatron® 2.5 (31 patients) to TURP (21 patients).[169] After two years, Madsen-Iverson scores improved in 56% and 74% of patients after TUMT and TURP treatments, respectively. By urodynamic measurements, however, one-third of patients remained obstructed two years after treatment with TUMT. At 2.5 years follow-up, 19% of patients treated with TUMT required retreatment.

Francisca et al (1999) randomized 122 patients to treatment with Prostatron® 2.5 TUMT (66 patients) or TURP (56 patients).[170] While TURP demonstrated greater efficacy in improving Qmax, PVR, I-PSS, and prostate volume, TUMT demonstrated a significantly lower rate of sexual side effects, e.g. retrograde ejaculation (32% vs. 63% in TURP) at one year. Floratos et al (2001) updated the Francisca et al (1999) experience with 144 patients randomized to either HE-TUMT (78 patients) or TURP (66 patients) with a median follow-up of 33 months.[170, 171] In the TUMT-treated group, I-PSS decreased from 20 to 12 at three years, while Qmax increased from 9.2 to 11.9 mL per second. In the TURP group, at three years, I-PSS decreased from 20 to three, while Qmax increased from 7.8 to 24.7 mL per second. The cumulative risk of retreatment between the two groups was not statistically significant.

Ohigashi et al (2007) described the durability of TUMT effects after treatment with the Prostatron® 2.0; 102 patients were treated and the risk of necessity for retreatment calculated.[172] Kaplan-Meier analyses demonstrated that 67% of patients required additional treatment within five years after TUMT, with a median period of 37 months. Qmax greater than 6.5 mL per second, a urethral length less than 40 mm, and age >64 years were all significant predictors of durable results. Laguna et al studied 388 patients treated with Prostatron 2.5 or 3.5.[173] An improvement of 50% or more was

observed in I-PSS, QoL score, and Qmax in 57%, 62%, and 44% of patients, respectively. Absolute mean changes at one year were -9.7, -2.0, and 5.2 mL per second, respectively.

The broadest Prostatron experience has been published by Vesely et al (2005) with an 11 year follow-up of 452 patients treated with either Prostasoft 2.0 (323 patients) or Prostasoft 3.5 (129 patients).[174] With version 2.0, 67% of patients were satisfied with the results of treatment; 18% of patients experienced complications, 25% had transient UTI, 16% had urinary retention and 32% of patients required retreatment. I-PSS decreased from 15.9 and 2.9 and QoL scores decreased from 12.0 and 2.1. With Prostasoft 3.5, 82% of patients were satisfied; 17% experienced complications, 25% had UTIs, 26% had urinary retention, and 7% required retreatment. I-PSS decreased from 19.8 and 3.8 to 11.2 and 1.5, respectively.

Targis

Djavan et al (2001) compared 51 patients treated with Targis TUMT vs. 52 treated with alpha blockers.[175] While mean I-PSS, Qmax, and QoL scores improved for both groups, the TUMT group demonstrated a greater magnitude of improvement. Between-group differences were 35%, 22%, and 43% greater, respectively, for the TUMT group with a sevenfold lower actuarial treatment failure rate. These effects were maintained for at least 18 months.[175] In a prospective trial where 200 patients were treated with Targis TUMT, Thalmann et al demonstrated that median Qmax increased from six to 13 mL per second at 24 months.[176] Median PVR decreased from 170 mL to 27 mL, while I-PSS decreased from 23 to three. Two years after treatment, 59 patients agreed to undergo repeat urodynamic evaluation; median detrusor pressure at Qmax decreased from 86 to 58 cm H_2O. Osman et al (2003) compared the one-year subjective vs. urodynamic changes in 40 TUMT patients.[177] While AUA-SI decreased from 20.5 to nine, Qmax increased from 9.2 to 15 and the Schafer nomogram number decreased from four to two. Qmax paralleled improvement with the obstructive component of the AUA-SI for the first three months; afterwards, improvements in irritative symptoms accounted for the bulk of AUA-SI improvement.

Miller et al (2003) studied the durability of Targis® TUMT over three centers in 150 patients for five years.[178] AUA-SI improved 11.5 (53%) and 10.6 (47%) points at one and five years, while Qmax improved by 3.4 (48%) and 2.4 (37%); 31 patients required retreatment. Of note, five-year follow-up existed for only 59 of the original 150 patients. Berger et al (2003) studied Targis® TUMT in 78 high risk patients with AUR with a mean follow-up of 34 months; 87.1% of patients were able to void afterwards, although 7.3% experienced repeat retention within two years.[179] Mean Qmax improved to 11.1 mL per second while mean PVR decreased to 46 mL. The largest prospective Targis® trial involved 345 patients treated over nine institutions. In this study, Kaplan et al (2004) demonstrated that 65% of patients showed at least a 50% reduction in symptom scores the first year, with a mean I-PSS improvement of 11.1 points. In the 85 patients available for five-year follow-up, absolute I-PSS improvement was maintained at 8.4 points. Flow rates improved from 7.5 to 10.5 mL per second at three years.

Cooled ThermoCath

This microwave catheter technique is based on minor modifications of the initial Targis balloon device. It features different antenna structure and larger beds for cooling urethral membrane. Huidobro et al conducted the first multicenter trial with the cooled thermoCath (CTC) system vs. Targis®.[180] Forty patients were followed for 12 months after TUMT. Thirty-six demonstrated decreased prostate volume (8% with CTC vs. 21% with Targis 60), QoL (44% vs. 58%), AUA symptom score (41% vs. 60%), and increased Qmax (28% vs. 55%).

CoreTherm

Gravas et al (2007) reviewed the single-institution, 41 patient experience with ProstaLund Feedback Treatment (PLFT).[181] With PLFT, treatment is usually stopped when 55°C is measured in any part of the treatment zone. PLFT is thought to compensate for the interindividual and intraindividual differences in prostatic blood flow, in contrast to standard TUMT devices. I-PSS decreased from 21.9 to 7.1, while Qmax increased from 8.4 to 17.8 mL per second at 12 months. The mean change in prostate volume was 19 mL over the same time period. No serious adverse effects were seen, although ejaculatory ability was mildly diminished (78% to 51.4%). de la Rosette et al (2003) studied 180 patients pooled from three prospective clinical trials and followed for 12 months.[182] Improvements in prostate volume reduction (52 to 34 mL), Qmax (7.7 to 16.1 mL per second), and I-PSS (20.9 to 6.4) were seen. Prostate volume reduction correlated with changes in Qmax and voiding pressure. Schelin (2006) evaluated 24 patients with BPH and chronic urinary retention also treated with PLFT; 19 (80%) of the patients were treated successfully with removal of the indwelling catheter.[183] Five failures occurred in patients with enlarged median lobes or large protruding lobes into the bladder. No serious complications occurred. David et al (2004) reviewed the outpatient experience of PLFT in 102 patients with a mean follow-up of 5.6 months in a retrospective, multicenter trial.[184] Mean postoperative catheter duration was 13 days. Mean AUA symptom score decreased from 18 to 11 at three months. Qmax increased from 7.8 to 14 mL per second.

Schelin et al (2006) studied the efficacy of PLFT in 54 patients with chronic urinary retention against 52 TURP patients in a prospective, multicenter trial.[183] Both groups were catheter-free at six month follow-up. Mean catheterization time was 34 days for TUMT vs.verus five days for TURP. I-PSS at six months was significantly less for TURP (4.4) vs. TUMT (7.3). Qmax at six months was not statistically different between the two groups.

Wagrell et al (2004) reported a prospective, randomized, multicenter trial that studied 154 patients treated with either HE-TUMT via PLFT (103 patients) vs.verus TURP (51 patients) with a median follow-up of 36 months.[185] No statistically significant differences were found in Qmax or QoL between the two groups, although I-PSS was different at 36 months (8.2 for TUMT vs. 5.0 for TURP). TUMT had a lower rate of serious adverse events (2%) compared to TURP (17%). The most frequent side effects of TUMT were impotence (8%), PSA increase (5%), and hematuria (4%).

Mattiasson et al (2007) updated the Wagrell et al (2004) experience with an expanded five-year follow-up of TUMT (103 patients) vs. TURP (51 patients); 96 patients (62 TUMT, 34 TURP) were available for follow-up at 60 months.[185, 186] Ten percent of TUMT patients required additional BPH treatment, while 4.3% of TURP patients required retreatment. I-PSS decreased from 21.0 to 7.4 for TUMT and from 20.5 to 6.0 for TURP; QoL decreased from 4.3 to 1.1 and from 4.2 to 1.1 in the same groups. Qmax increased from 6.7 to 11.4 mL per second for TUMT and from 7.9 to 13.3 mL per second for TURP. PVR decreased from 106 to 70 mL for TUMT and from 94 to 51 mL for TURP. No statistically significant differences were found between the two groups' end results. Eighty complications were seen in the TUMT group, while 39 were seen in the TURP group.

Prolieve™

Bock et al (2004) reviewed the one-year clinical experience with the Prolieve™ system in a multicenter, randomized trial; 94 patients treated with Prolieve™ TUMT were compared to therapy with finasteride alone in 31 patients.[187] Fewer than 20% of patients required catheterization after TUMT. AUA-SI improvement was significantly greater in the TUMT group (49.3%) than in the finasteride group (19.1%) at six months. The magnitude of improvement was similar among patients with prostates greater and less than 50 g.

Summary

TUNA, as well as TUMT, has been utilized consistently over recent years with about 20,000 radiofrequency cases and around 80,000 microwave thermotherapy cases annually in the United States. A systematic review of TUMT data reveals a heterogeneous mix of studies of various sizes and TUMT protocols, often using different outcome measures with varying durations of follow-up. This leads to conflicting results, as may be seen in studies of shorter vs. longer follow-up. For reference, detailed evidence tables reviewing the studies evaluated by the Panel are provided in Appendix A8.

Older, low-energy TUMT devices similarly possess comparatively less clinical efficacy than newer, higher energy counterparts but also carry a lower risk of side effects. The durability of TUMT treatment appears to have improved with the advent of higher energy, later generation devices. One should also note however that the concept of durability with TUMT may be misleading, as the data suffer from a selection bias. Most studies analyze only those patients who remain in the study at the time of analysis; these patients would tend to represent the best "responders." In many studies, less than half of the initial group of men treated is analyzed at the end of the study period. Intent-to-treat analyses where therapeutic failures are considered are required to give a better idea of the true effectiveness and durability of TUMT. It is also important to note that the quality of the TURP comparator group in many of the series is influenced by surgeon skill and patient selection, and will therefore materially impact influence head-to-head comparisons between the therapies. The rate of utilization did not reach initial expectations, and has held more or less steady in recent years. Outpatient

capability, lack of sexual side effects and avoidance of actual surgery are attractive to patient and clinician alike. But perhaps the one issue that has held back greater utilization is not short term efficacy but the perception that these approaches lack sufficient durability of effect to assume a greater role in the management of LUTS.

Surgical Therapies

Surgery, by definition, is the most invasive option for the management of LUTS and BOO. The mechanism of action for surgical interventions is based on the classic BOO model wherein the enlarging or obstructing prostate tissue increases the urethral resistance to flow, thus requiring ever higher intravesical pressures to void. The physiologic obstruction then results in subjective symptoms that lead men to seek medical care. Surgical treatment of BOO is defined as the mechanical debulking of tissue within the prostatic fossa. Urodynamically, the underlying BOO and the surgical results can be demonstrated using multichannel measures of intravesical pressure and simultaneous flow. A classic picture of obstruction would appear urodynamically as an elevated intravesical pressure relative to a low urinary flow rate. Direct intraurethral pressure measures have also been applied as a measure of BOO though it has not gained widespread acceptance due in part to concerns over reliability.

As a management option, surgery is typically performed in the operating room setting, requires anesthesia and is associated with the greatest risks for morbidity and higher costs. Traditionally, the gold standards have been an open prostatectomy (retropubic, suprapubic) for very large prostates or those with large bladder calculi and a monopolar TURP. For small prostates (<30 g), the option for a transurethral incision of the prostate (TUIP) has been found to be associated with fewer complications but comparable efficacy.

In the 21st century, surgical management of BPH continues to evolve towards less invasive, endoscopic procedures that are viable alternatives to open prostatectomy. In addition to open prostatectomy and TURP, newer surgical options include bipolar or saline TURP, transurethral holmium laser enucleation of the prostate (HoLEP), potassium-titanyl-phosphate photovaporization of the prostate (PVP) laser ablation of the prostate, holmium laser ablation of the prostate (HoLAP), and transurethral electrovaporization of the prostate (TUEVP). The clinical data supporting the use of these surgical procedures including several comparative trials are herein reviewed. Systematically, current evidence describing the background literature and outcomes for each procedure have been considered. For reference, detailed evidence tables reviewing the studies evaluated by the Panel are provided in Appendix A8.

Open Prostatectomy

Randomized Controlled trials (RCTs)

Two surgical approaches to open prostatectomy for BPH are in common use: the Millin modified retropubic prostatectomy and the classical transvesical prostatectomy.[188] No new RCTs examining effectiveness were identified in the current review of the literature.

Cohort Studies with a Comparison Group

One retrospective study was identified that compared rates of repeat prostatectomy between open prostatectomy and standard TURP using a population-based cohort in Western Australia.[189] Hospital data and death records were gathered on all 19,598 men undergoing prostate surgery for BPH between 1980 and 1995. In a second study, open prostatectomy (*n*=69) was compared with TURP (*n*=16) in 85 Kenyan men.[190]

Single-group Cohort Studies

The 12 single-group cohort studies examining open prostatectomy that were identified in this review generally included subjects with larger glands or patients needing surgery for bladder or other pelvic or inguinal conditions. Otherwise, inclusion and exclusion criteria were similar to those of other surgical interventions, including significant LUTS and no prior history of prostate surgery or suspicion of prostate cancer. Approximately half of the studies were retrospective series and a number of the studies examined only intra- and peri-operative outcomes and complications without examination of efficacy and effectiveness outcomes. Follow-up intervals ranged from the immediate postoperative period up to 11 years.[191] The various techniques of open prostatectomy included transvesical[192-197] and retropubic.[198] In some studies various techniques were used with the data and not stratified by approach. [191, 199] Bernie et al compared the three techniques, namely transversica, retropubic, and perineal. [200] Other reports did not indicate the specific surgical approach.[201]

Efficacy and Effectiveness Outcomes

Symptoms and Quality of Life

I-PSS or AUA-SI and QoL scores improved in all studies reporting this outcome, with follow-up between three months and more than three years. IIEF[194] and the Madsen-Iversen score[196] improved significantly at six and 12 months, respectively. Postvoid residual and Qmax also improved significantly in all studies examining this outcome at mean follow-up up to three years. In the only study of sexual function after surgery, a significant increase in sexual desire and overall satisfaction was observed.[194]

Safety Outcomes

Withdrawals and Treatment Failures

Few prospective studies reported attrition and few retrospective studies reported the completeness of data collection at the end of the follow-up interval. Reoperation for treatment failure was rarely reported. Follow-up of 56 men at up to 11 years (mean 36 months) after open prostatectomy identified only one patient who needed additional therapy for BPH (continued drug treatment).[191] In another study, the reoperation rate was 3.9% at mean follow-up of 42 months, but no details were provided as to the treatment rendered. [197]

Perioperative and Short-Term Outcomes

Intraoperative blood loss more than 1000 mL was reported in several studies using the retropubic approach.[191, 200, 202] Serretta and colleagues (2002) reported "severe bleeding" in 11.6% of subjects, with 8.2% of subjects requiring blood transfusions, while others reported even higher rates of intra- or peri-operative transfusions: 16%and 19%.[192, 199, 202] However, several studies did report lower transfusion rates (<10%).[193, 195, 197] Hospital stay for open prostatectomy ranged between five to seven days in many studies;[191, 193, 195-197, 199, 200] however, the mean length of stay was approximately 11 days in other studies of transvesical prostatectomy.[192, 202] Bernie and Schmidt compared hospital stays among surgical approaches and reported five and six days for retropubic and suprapubic approaches, respectively.[200] Mean catheter duration was between five and seven days.

Longer-term Complications

Mortality was infrequently reported in these studies and perioperative death rates were low (≤1%) and generally related to cardiovascular disease.[193, 195, 202] In the large (*n*=1,800) series by Serretta and colleagues, one perioperative death was reported.[199] The discovery of incidental prostate cancer in resected specimens was reported at rates of 2%,[193] 3.1%,[201] 6.5%,[192] 11%[195] and 17%.[202] Incontinence was reported at rates between 0.5% and 8%, with several studies reporting much lower rates of permanent incontinence.[196, 199] Bladder neck contracture was reported at 3% to 6%[191, 196, 197, 202] and in one of six subjects undergoing perineal open prostatectomy in a single series.[200]

Laparoscopic Prostatectomy

Cohort Studies with a Comparison Group

A single cohort study (*n*=60) compared consecutive patients undergoing laparoscopic prostatectomy with a consecutive retrospective cohort of open prostatectomy.[203]

Single-group Cohort Studies

Sotelo and colleagues (2005) in the U.S. and Venezuela reported a series (*n*=17) of laparoscopic retropubic simple prostatectomies.[198] Subjects had glands at least 60 g (mean 93 g).

When laparoscopic and open approaches were compared, the mean operative time was greater in the laparoscopic group (115 vs. 54 minutes, $p<0.01$)[203] while blood loss, catheter duration, and hospital stay were greater with the open procedure. There was no difference in the rate or severity of complications. Sotelo reported a mean operative time of 156 minutes (range 85 to 380) and a mean blood loss of 516 mL (range 100 to 2500 mL).[198] Five patients required transfusion and complications occurred in three patients. AUA-SI and Qmax improved significantly at follow-up between three months and two years.

Laser Therapies

Holmium Laser Ablation of the Prostate (HoLAP)

Single-group Cohort Studies

One publication updated previously published data reviewed in the 2003 Guideline, thereby fulfilling inclusion criteria for this revision.[204] Gilling and colleagues (1996) published seven year follow-up on a serious of 79 men undergoing HoLAP. [205, 206] At seven-years follow-up, only 34 men in the original cohort were available.

Holmium Laser Enucleation of the Prostate (HoLEP)

Randomized Controlled Trials (RCTs)

Procedures involving the holmium laser were examined in eight RCTs, with various comparators: one small (*n*=40) trial that compared HoLEP to plasmakinetic enucleation of the prostate and followed patients for 12 months,[207] standard monopolar TURP,[208-211] holmium laser bladder neck incision,[212] and open prostatectomy.[213, 214] Inclusion criteria were similar across studies: men presenting with LUTS of severity suggesting that surgical treatment was indicated. Follow-up intervals ranged from six months[213] to five years.[215] Sample size ranged between 40[207, 212] and 200 subjects.[209] Few studies provided any details on how subjects were selected. Mean age in the studies ranged between approximately 65 and 71 years, mean I-PSS ranged between 19 and 26, and QoL score between four and five. Large prostate glands were examined in several studies: >100 g,[213, 215] 40 to 200 g[211] and 70 to 220 g.[214] The percentage of subjects in urinary retention at baseline was generally not reported; in two studies such subjects were excluded from study participation.[210, 211]

Cohort Studies with a Comparison Group

One small study (*n*=20) compared a cohort of patients who received HoLEP with a cohort of patients who had open prostatectomy.[216] Four studies examined HoLEP compared with TURP.[208-211]

Single-group Cohort Studies

There were 15 publications of single-group cohort studies examining HoLEP. Several of these publications reported overlapping populations.[209, 217-223] Few details were provided on participant

recruitment and many of the studies were retrospective examinations of surgical series including only patients where complete data were available.[224-226 218] Follow-up was generally less than one year, although several included longer follow-up.[217, 218, 220, 227] Mean age was between 65 and 74 years. I-PSS ranged 19 to 23, although one study had a somewhat lower baseline mean value of approximately 14.[224] Mean baseline Qmax ranged between 4.5 and 9.0 mL per second. A significant percentage of subjects were in urinary retention at baseline in several studies, although this information was infrequently reported at baseline. [217, 221, 222, 224] The majority of studies examined the holmium:YAG (Versapulse) end-firing laser produced by Lumenis, Inc. used with the Lumenis tissue morcellator.[217-224, 226-228] Wattage used was between 65W and 100W.

Holmium Laser Resection of the Prostate (HoLRP)

Randomized Controlled Trials

The effectiveness and safety of holmium-YAG laser (HoL-YAG) was compared to TURP in one RCT with two-year follow-up.[229, 230]

Single-group Cohort Studies

Two single-group cohort studies were identified which examined HoLRP.[231, 232] Chilton and colleagues reported a retrospective series of 259 men undergoing HoLRP.[231] Yamanishi and colleagues described a small, prospective series (*n*=32) of HoLRP.[232]

Potassium-Titanyl-Phosphate Photovaporization of the Prostate (PVP)

Randomized Controlled Trials (RCTs)

The effectiveness of the PVP laser was reported one RCT (PVP laser vs. TURP: early results of a randomized trial).[233]

Cohort Studies with a Comparison Group

A cohort study compared PVP using the GreenLight™ laser with standard TURP.[234]

Single-group Cohort Studies

We identified 18 publications of single-group cohort studies examining the potassium-titanyl-phosphate (PVP) laser.[235-252] Inclusion criteria for treatment with the PVP laser in cohort studies was typical of BPH surgical series (i.e., men with LUTS suggestive of BPH). Sample size varied greatly, ranging from 10[238] to 208[249]. Follow-up interval ranged from six weeks[236] to three years,[246] with only two studies providing data for longer than 12 months.[246, 249] Mean age of study participants ranged between 64 and 79 years, and the mean age was 75 years or greater in several studies.[237, 243, 251] Baseline mean I-PSS ranged broadly, from 16[241] to approximately 30 in a study of high-risk men with larger prostates.[237] Qmax also varied across studies, with mean values between 5.5 mL per second[237] and 13 mL per

second.[239] Men in urinary retention were excluded in some studies,[234, 238, 242, 252] while in others a significant pecentage had chronic urinary retention.[237, 243, 244, 251]

Thulium: YAG Laser

Single-group Cohort Studies

Bach and colleagues (2007) reported a cohort of 54 consecutive patients treated with the RevoLix™ laser for LUTS due to BPH.[253] Mean prostate size was 30.3 mL and mean resection time was 52 minutes.

Efficacy and Effectiveness Outcomes

Similar to the analysis of the surgical therapies in the 2003 analysis, the symptom score and peak-flow data were available for most laser treatments and QoL scores were available for most treatments. The BPH II scores were not recorded for any surgical trials. When laser therapies were evaluated in RCTs, TURP was the most common comparison group and often referred to as the historical gold standard. Other comparison groups included open prostatectomy, bipolar TURP and laser therapy with and without 5-ARIs.

Symptoms and Quality of Life

AUA Symptom Index. All studies evaluating AUA-SI symptom improvement following laser therapy of the prostate reported improved AUA-SI scores three weeks[254] to six years[255] after therapy. The AUA-SI improvements were not significantly different from the comparison groups in those studies with a randomized controlled design or those with a cohort group. Data from RCTs are limited to holmium laser therapies. The difference in AUA symptom scores when compared open prostatectomy (at three months and five years),[256, 257] and TURP (at 12 and 24 months) did not reach statistical significance in three trials[258-260] but there was a greater improvement with HoLEP than TURP in one trial with 12 month follow up.[261] Further, the improvement in AUA-SI following HoLEP do not appear to be significantly different in men with larger prostates. When HoLEP was compared with holmium laser bladder neck incision (HoBNI), there was no significant difference between treatment groups for AUA symptom score at three-, six- and 12-month follow-up.[262]

A single-group cohort study of holmium ablation of the prostate reported improvements in AUA-SI score three months postoperatively that were sustained at seven years, although no statistics were provided.[258] Holmium laser resection of the prostate also resulted in improved AUA-SI scores and these improvements were sustained at 24 months but were not significantly different from a cohort TURP group.[263] Single-cohort studies utilizing PVP laser therapy reported that I-PSS or AUA-SI improved consistently in all studies, with follow-up intervals ranging from six weeks[264] to five years.[265] Monoski and colleagues (2006) examined the relationship between preoperative urodynamic parameters and outcomes in 40 patients in urinary retention.[266] Postoperatively, subjects with detrusor overactivity had more voiding symptoms than those without detrusor overactivity. Men without impaired detrusor

contractility at baseline had a better I-PSS, flow rates, and post-void residual volumes at up to six months of follow-up compared with men with impaired detrusor contractility. Single-cohort studies involving PVP laser reported that men with no evidence of bladder instability and lower PSA values (representing smaller prostates with an average volume of 48.3 mL) prior to therapy were noted to have greater improvement in their AUA-SI scores compared to men with greater pretreatment PSA values (representing a mean prostate volume of 83 mL).[267] The concurrent use of 5-ARIs did not appear to impact the AUA symptom score at one year in men who have been treated with the PVP laser.

The I-PSS associated with HoLEP decreased 13 to 18 points at one month, and the reduction in symptom score (11.7 point decrease from baseline) was maintained at the five-year follow-up. The reductions in scores for the PVP laser were slightly less at one month (range 4 to 16 point decrease), although by three months the decrease in AUA-SI score was comparable to HoLEP (range 9 to 20.9 point decrease) and at five years was lower than HoLEP (19.4 point decrease in symptom score form baseline). The outcomes associated with the thulium laser were reported for 54 patients in a single cohort study and improvement in the AUA-SI score at 12 months;[253] however, there was insufficient information to assess statistical validity of this improvement.

Summary

All laser therapies produce major improvements in the AUA-SI scores. While there are no direct comparisons between the various laser technologies, the improvements in symptom scores appear to be comparable to other surgical therapies and durable to five years.

International Prostate Symptom Score Quality of Life Question

A greater percentage of studies included QoL scores compared to the analysis conducted for the 2003 AUA Guideline; however, the only RCTs that pursued QoL data involved holmium laser enucleation/ablation of the prostate compared to TURP or bipolar TURP, and these studies support that the QoL improved in all treatment groups with no significant differences at one- and two-[258-260] and six-years[255] follow-up and greater improvement in HoLEP compared to TURP at one-year in one study.[261]

In general, HoLEP QoL scores appeared to improve 3.5 points at one month following therapy. Data from a single investigator suggest that the QoL assessment in the interval between one year and six years follow-up is still improved but variable, as reported scores ranged between -2.6 compared to baseline at one-year, -3.4 at three years, and -2.2 points below baseline at six years. Single group cohort studies using holmium ablation of the prostate report that the improvements in QoL scores noted at three months postoperatively were sustained at seven years although no statistics were provided.[258] When HoLEP was compared with HoBNI, there was no significant difference between treatment groups for QoL at the three-, six- and 12-month follow-up.[262]

Quality of life data associated with outcomes from PVP laser therapy also improved in all studies and the variability over time appeared to be less than with HoLEP.[265, 268] The improvement in the initial QoL scores at one month was less than HoLEP (range -2.2 points to -2.7 points) but improvements at

three months appeared equivalent (range -2.8 to -4 points); by one year QoL scores were consistently better (range -3.9 to -4.1 points) and were maintained in the longest reported study at two years (single study -3.9 points).

The QoL score improved in all single-cohort group studies of the PVP laser. In the single cohort study that included 54 patients improvement was found in the QoL score at one-year however, due to limited data, conclusions about this modality cannot be drawn.[253]

Summary

Although data are limited, the QoL score improved post-laser therapy when evaluated at one- and two-year follow-up regardless of the procedure type (except for thulium, for which conclusion could not be drawn).

Pressure, Flow, Volume Outcomes

Peak Urinary Flow Rate. The only RCTs of laser therapy that reported Qmax involved HoLEP; Qmax improved in both treatment groups in the three of four studies reporting this outcome. In general, there were no significant differences between groups at one-year.[258, 259, 261] Further, Qmax was improved but not significantly different from open prostatectomy[256, 257] and bipolar TURP[269] between three months and five years of follow-up. Long-term randomized studies that compared HoLEP to bipolar TURP reported improved Qmax at up to five-years of follow-up.[270] All other studies involving laser therapy reported improved maximum flow rate.

Maximum urinary flow rates improved in all studies reporting this parameter after HoLEP. The improvements in maximum flow rate at three months (range from 9.8 to 23.2 mL per second) appeared to be maintained at two years in a single study reporting average maximum flow rate of 12 mL per second)[271] and was reported to decrease slightly at six years in another single study that reported an average maximum flow rate 9.9 mL per second.[255] When a holmium laser was used to ablate the prostate, a single-group cohort study reported that the improvements in QoL scores noted at three months postoperatively were sustained at seven years although no statistics were provided.[272]

When HoLEP was compared with HoBNI, there were no significant differences between treatment groups for Qmax at the three-, six- and 12-month follow-up.[262] Single-group cohort studies involving HoLAP and TURP indicate that the Qmax improved in both groups with improvements sustained at up to 24 months follow-up and was similar in both groups.[263] Maximum flow rates following PVP laser therapy also increased in all studies reporting this parameter with a range at one month of 7.5 to 11.8 mL per second; and a range of 7.7 to 19.5 mL per second 3 months posttherapy.[265, 273, 274] The maximum urine flow rates at two years (range 18.8 to 21.1 mL per second) and five years (a single study reporting 14.4 mL per second) after therapy appeared to improve significantly, but the five-year data are limited to a single study center.[265] The outcomes associated with the thulium laser were reported for 54 patients in a single-cohort study and suggested a significant improvement in the Qmax at 12 months.[253]

Outcomes of RCTs, where available, yielded no statistically significant differences among laser therapies beyond the initial six months. All surgical therapies provided similar outcomes over time with regard to peak flow.

Urinary Postvoid Residuals. In one RCT, HoLEP and TURP achieved similar improvements in the post-void residuals at six months after therapy;[258] however, at 12 months, further improvements in the post-void residuals favored the HoLEP-treated patients.[275] When HoLEP was compared in RCTs to open prostatectomy at three months and five years, both therapies showed improvement in the post-void urinary residuals and there was no significant difference between these therapies.[256, 257] Similar findings were reported in an RCT comparing bipolar TURP and HoLEP, and the improvements in the post-void residuals were not significantly different between arms at 12 months[269] or 72 months.[270] A single-cohort study reported that the improvement in post-void residual was not related to the size of the prostate gland.

PVP laser therapy also produced a significant improvement in post-void residuals; there was no significant difference at one year if the patient was treated with concurrent 5-ARIs.[276] The single-cohort studies of PVP reported that the improvements in the post-void residual were durable at two years[267, 273] and five years[265] following treatment. The studies involving thulium laser therapy did not report the outcomes for the post-void urinary residuals.

Summary

Laser therapies, with the exception of thulium lasers, appear to offer similar improvements in the post-void residuals compared to other surgical therapies such as TURP and open prostatectomy. Further, the improvements in the post-void residuals following holmium laser therapy and PVP are durable; however, there is insufficient evidence to evaluate the durability for the thulium laser.

Prostate Volume. Changes following laser therapy may impact the outer diameter of the prostate as well as the inner lumen of the urethra. Thus total prostate volume measured after ablative therapies may not accurately reflect the amount of prostate tissue removed or the changes in the prostate. Studies concerning holmium lasers do not address changes in prostate volume following therapy but do refer to weight of resected tissue. Four studies examined HoLEP compared with TURP.[258-261] Weight of resected tissue was significantly greater with HoLEP compared with TURP in two studies,[258, 259] with no significant difference in a third study.[261] PVP lasers are reported in single-cohort studies to be associated with a decrease in prostate volume when assessed at three months and 12 months following therapy.[265, 274, 277-280] There is no information concerning the impact of the thulium laser on prostate volume or the impact of any laser therapy on the transition zone volume.

Detrusor Pressure at Maximum Flow. The literature does not contain information concerning the impact of the various laser therapies on the detrusor pressures at maximum flow.

Prostate-specific Antigen. PSA values have been indentified as a useful marker for risk of progression of LUTS leading to surgical therapy. The implications of changes in the PSA value following

laser therapy are unknown. PSA was unchanged in six studies reporting PSA values after laser therapy.[265, 274, 277-280] One study reported that PSA values decreased following PVP laser therapy, and cautioned that if the PSA increased the patient should be treated with an appropriate antibiotic and the PSA repeated upon completion of the antibiotics; if the PSA did not decrease, a prostate needle biopsy should be completed to rule out prostate malignancy. The authors reported that patients whose PSA failed to decrease had a 50% risk of a diagnosis of prostate cancer.

Safety Outcomes

Total Withdrawals or Loss to Follow-up

Reported withdrawal rates from RCTs of holmium lasers compared to TURP were similar for both groups. Randomized controlled studies of the holmium laser compared to open prostatectomy found a total withdrawal rate of 38.3% at five years. In single cohort studies utilizing the PVP laser, the withdrawal rate was very high in the long-term, but the reasons for withdrawal were not reported.

Perioperative Mortality

There are limited data concerning the mortality rates associated with laser therapy in articles published since the 2003 AUA guideline. Mortality was reported in two studies comparing HoLEP with bipolar TURP, with rates ≤1%.[255, 281] Mortality rates were infrequently reported in the PVP series and typically mortality was unrelated to prostate surgery.[264-268, 273, 274, 277-280, 282-289] There is great difficulty estimating the mortality rate for all surgical therapies that treat the obstruction causing LUTS. The concerns for mortality rates associated with laser therapies are referred to the section addressing mortality for all surgical therapies.

Short-term Adverse Events

Intraoperative Complications. Intraoperative, immediate, postoperative, and short-term complications involve a broad spectrum of events and reporting rates may be based on subjective thresholds. Some technologies have complications unique to that treatment modality, such as morcellation injuries associated with HoLEP. Randomized studies that compared HoLEP to bipolar TURP reported complications due to morcellation, including incomplete tissue morcellation due to blade malfunction (1.9%)[290] and bladder mucosal injury (1.9%[291] and 2.8%[292]). Capsular perforation was reported in HoLEP studies at rates of 0.3%,[270] 0.6%,[293] 1.5%[291] and 1.9%[290] while the incidence in HoLRP was one out of 281 study participants.[263, 294]

Operative time. The ability to directly compare laser therapies with respect to the operative time is constrained by the fact that each laser modality seems to select from patient populations with different baseline characteristics and seldom selects the same comparison therapy as a control. When HoLEP was compared with HoBNI, the operating time was significantly shorter with HoBNI (mean seven minutes) than HoLEP ($P<0.001$).[262] RCTs comparing HoLEP to open prostatectomy indicate similar

weight of prostate tissue resected but a longer operative time for holmium enucleation.[256, 295] This is in contrast to a cohort comparison study that reported operative times were similar despite greater tissue resection with holmium enucleation. A single-group cohort study of HoLEP indicated that operative time was related to prostate gland size, which would seem logical. When compared to bipolar TURP, RCTs report a wide range of operative times for HoLEP compared to bipolar TURP. One study reported that operative times and, importantly, the weight of resected tissue was similar for both HoLEP and bipolar TURP.[269] However, other studies reported enucleation times of 86 minutes in a large series, which was improved from 112 minutes in their initial series of 118 cases.[255] The longest mean operative time was reported in a series by Kuo et al (2003) (133.6 minutes), where mean resected weight was 68 g and morcellation time ranged between 12 and 19 minutes.[291, 293]

An RCT of laser ablation of the prostate indicated that this modality required a significantly shorter operative time compared to TURP (P< 0.001), but HoLEP also resected significantly less prostate tissue weight.[296, 297] A single-cohort study reported that the average weight of prostate tissue resected was 11 g and the procedure required an average operative time of 47 minutes.[294] All of the reported studies involving PVP laser ablation of the prostate are single-cohort studies, and the reported operative ranged from 38 to 137 minutes;[264-268, 273, 274, 277-280, 282-289] however, because of the ablative nature of the PVP laser it is not possible to accurately report a weight of resected tissue, which limits comparison. The sole study for the thulium laser is a single-cohort study reporting an operative time of 52 minutes in men with a mean pretreatment prostate volume of 32 mL.

Hematuria. Data from RCTs indicated that HoLEP was associated with less hematuria compared to open prostatectomy[256, 295], while comparison studies with a single cohort would support that there is no statistically significant difference with HoLEP. When HoLEP was compared to a cohort group, the report indicated that the extent of blood loss is related to the size of the prostate gland.[261] Studies concerning HoLEP did not report the blood loss associated with the procedure. Only one study involving PVP laser attempted to quantify the blood loss associated with PVP laser ablation, which was estimated to be 56 mL.[268] A second single cohort study reported "uncontrolled bleeding in 11.3% of patients.[280]

Transfusion. Data concerning transfusion risk associated with laser therapies for LUTS due to BPH are limited. There is a single RCT involving HoLRP indicating a lower risk of transfusion when compared to TURP. Data from the single cohort studies utilizing HoLEP report a transfusion rate of less than 1% while studies of PVP laser ablation and thulium laser ablation indicated that no patient required a transfusion. The single-group cohort studies utilizing HoLEP reported two of 281 patients who required perioperative transfusion, both of whom had an underlying bleeding disorder or were on anticoagulants.[263, 294] PVP laser studies consistently reported a decrease in hemoglobin, but statistical significance was rarely reported. No study reported administration of blood transfusions or any case of TUR syndrome or significant electrolyte imbalance in the perioperative period.[264-268, 273, 274, 277-280, 282-289] In a small single-cohort study of the outcomes associated with the thulium laser, no patient required

transfusion; however the Panel felt that the small study population of 54 patients was not sufficient to reliably estimate the risk for blood transfusion.[253]

Transurethral Resection Syndrome. The ramifications of TUR syndrome dictated the historical concerns for the incidence of this complication. While there are no RCTs involving laser therapies that discuss TUR syndrome, single-cohort studies utilizing PVP and thulium laser reported that no patients developed TUR syndrome. The use of lower procedure irrigation pressures, better optics used in today's cystoscopes and normal saline irrigation appear to have significantly decreased the risk of TUR syndrome.

Infections/Urinary Tract Infections (UTIs). The category of infections or UTIs includes a wide variety of infectious diseases, such as wound infections, epididymitis, orchitis, and bacterial UTI reported at any time after an intervention. The published data in the interval from the 2003 analysis of the literature does not provide sufficient information to assess a change in risk. There was a single-cohort study concerning thulium laser ablation that reported an 11% UTI rate following treatment.[72] This rate is higher than expected from other transurethral technologies available today and the reason for the difference is not clear. Meta-analyses of RCTs showed rates of infection/UTI in patients treated with transurethral laser coagulation, TUIP, or transurethral vaporization of the prostate (TUVP) were not statistically significantly different from those for TURP-treated patients; single RCTs also found similar results for either TUVP or open prostatectomy compared to TURP. Results from systematic reviews revealed rates ranging from 5% for TUIP to 9% for transurethral laser coagulation and TUVP one small single-arm study reported a 1% rate in patients treated with holmium laser resection/enucleation. No RCTs reported UTI rates for holmium laser resection/enucleation.

Irritative Voiding Symptoms. Minimally invasive and surgical procedures induce irritative voiding symptoms immediately after and for some time subsequent to the procedure. Periprocedure and postprocedure adverse events associated with voiding symptoms include frequency, urgency, and urge incontinence and are categorized as postprocedure irritative adverse events. Such events are reported more often following heat-based therapies than following tissue-ablative surgical procedures. Because they impact QoL, irritative events are important and warrant documentation. Unfortunately, all patients will have some symptoms during the healing process immediately following the procedure. Because there is no standard for reporting this outcome, some studies reported these early symptoms while others did not. Further, because it is not possible to stratify these complaints according to severity, it is not possible to compare the degree of bother of these symptoms across therapies.

RCTs involving HoLEP found a significantly greater rate of irritative voiding in the HoLEP patients (59%) compared to TURP patients (30%),[259] while single-cohort HoLEP studies indicated that only 7% to 11% of patients experience irritative voiding symptoms in the postoperative period.[259, 298] Single-cohort studies utilizing the PVP laser indicated that 6%[285] to 52%[268] of patients reported a mild transient dysuria, while 9.4% of patients experienced a prolonged period of irritative voiding and 2.9% patients required medical therapy to help control the irritative symptoms.

Acute Urinary Retention. The category of AUR reflects the number of patients requiring repeat catheterization after a protocol-defined postprocedure period of catheterization. Unfortunately, some studies report "protocol-required" or "investigator option" episodes of postprocedure catheterization while others report only catheterization performed for inability to urinate. Further, new technologies are resulting in earlier removal of catheters with much shorter hospital stays. The earlier attempts to remove the catheter are likely to increase the reported rates of repeat catheterization compared to historical rates associated with other technologies and longer hospital stays. Such differences in reporting are reflected in the wide confidence intervals (CI) for frequency estimates. The only literature concerning rates of repeat catheterization available for this analysis involves the PVP laser where single-cohort studies indicate repeat catheterization rates of <5% in several studies,[265, 268, 278, 283, 288] while other studies indicate repeat catheterization rates between 10% and 15%.[267, 274, 279, 284, 285] Single-cohort studies utilizing the PVP laser report that the urinary catheters were generally removed between 18 and 36 hours postoperatively.[264-268, 273, 274, 277-280, 282-289] In fact, several series noted patients were not catheterized postoperatively, at the surgeon's discretion.[264, 267, 278, 283, 286] The mean catheter time associated with the thulium laser was 1.7 days.[253]

Hospital Stay. Randomized controlled studies comparing HoLEP to open prostatectomy[256, 295] and to TURP[258, 261] all found that hospital stays were significantly shorter for patients treated with HoLEP ($p<0.01$), yet HoLEP and bipolar TURP were associated with an equivalent number of days in the hospital.[259] Studies comparing HoLEP to open prostatectomy showed that the number of days in the hospital were significantly shorter for HoLEP;[257] one single-cohort study reported that length of hospital stay was independent of prostate size.[261] Randomized controlled studies also showed a shorter length of stay for patients treated with holmium resection of the prostate.[263, 294] When HoLEP was compared with HoBNI the hospital stay and catheter duration were short (<24 hours) in both groups.[262]

Studies concerning PVP ablation are limited to single-cohort studies and the range of hospital stay was short in some series,[265, 280, 282] while more than three days in other series.[274, 279, 283, 288, 299] This wide range is believed to be a reflection of the change in technology over the review period as the laser energy increased in increments from 40W to 100W over time. In addition, various protocols in select institutions facilitated early discharge from the hospital. The average hospital stay reported in the study utilizing the thulium laser was 3.5 days.[253]

Long-term Adverse Events

Urinary Incontinence. The category urinary incontinence represents a heterogeneous group of adverse events, including total and partial urinary incontinence, temporary or persistent incontinence, and stress or urge incontinence. The update of the literature in the interval since the 2003 AUA Guideline provides limited additional information concerning incontinence. Randomized controlled studies involving HoLEP compared to TURP present mixed information with the incontinence rate reported as similar on in one study,[261] while a second study reported an increased incontinence rate in

the HoLEP population.[258] The Panel recognized that this rate was higher than expected but felt the general urologist's experience with HoLEP was less than other technologies and the report warranted observation. When HoLEP was compared with HoBNI, incontinence was reported in 44% of HoLEP patients and none after HoBNI.[262] In a small trial that compared HoLEP to the bipolar TURP that followed patients for 12 months, the incontinence rates were almost identical.[188] Unfortunately, there was no information concerning PVP ablation or thulium laser therapy.

Secondary Procedures. The issues surrounding secondary procedures were well presented in the 2003 AUA guideline and reiterated here.[8] Secondary procedures, defined as interventions rendered by the treating physician for the same underlying condition as the first intervention, are challenging to classify. Examples of such procedures include initiation of medical therapy following a minimally invasive or surgical treatment, minimally invasive treatment following surgical intervention, or surgical intervention following a minimally invasive treatment. Enumerating secondary procedures from published reports is difficult. First, the threshold for initiating a secondary procedure varies by patient, physician, and the patient-physician interaction. In the absence of clearly defined thresholds for the success or failure of an initial intervention, secondary procedures are initiated on the basis of subjective perceptions on the part of either patients or treating physicians, which may not be reproducible or comparable between investigators, trials, or interventions. In many cases, patients involved in treatment trials feel a sense of responsibility toward the physician; given this commitment, patients may abstain from having a secondary procedure even through they may feel inadequately treated. Conversely, patients involved in treatment trials are more closely scrutinized in terms of their subjective and objective improvements; therefore, failures may be recognized more readily and patients may be referred more quickly for additional treatment. Moreover, the duration of trials and follow-up periods both affect rates at which secondary procedures are performed. Thus, although patients receiving long-term follow-up are at greater risk for treatment failure than those followed for short periods, it is virtually impossible to construct Kaplan-Meier curves or perform survival analyses for secondary procedure rates. In short, while it is quite clear that secondary procedures and treatment failures cause major health expenditures for the treatment of patients with BPH, it is also clear that the current literature does not allow a meaningful comparison of secondary procedures across therapies. As a result, the estimates for secondary procedure rates should be viewed with caution.

Reoperation rates following various laser therapies are inconsistently reported, often due to the limited length of follow-up or the small numbers of patients in these studies. Randomized controlled studies comparing HoLEP with open prostatectomy reported similar reoperation rates of 10% compared to 8.3% for open prostatectomy.[257] Other RCTs compared HoLEP to bipolar TURP and found that the reoperation rates (0.3% at three years;[270] and 4.2% at five years[255]) were less with HoLEP compared to bipolar TURP. Single-cohort studies involving HoLEP reported a reoperation rate of 0.3% after Three years and 4.2% after five years which would appear to be similar to the results from the RCTs.[277, 279]

When HoLEP was compared with HoBNI the need for a second surgical procedure over the one year follow-up occurred in four of 20 HoBNI patients and in none after HoLEP.[262]

Single-cohort studies concerning PVP lasers found a reoperation rate of 0% in a number of studies[265, 273, 277, 279] and less than 5% in other studies.[267, 274, 278, 284] In one cohort with three-year follow-up, the retreatment rate was 4.3%, but the entire series had not yet completed the three-year evaluation at the time of publication, so additional cases may present.[267] A five-year cohort study reported no retreatments.[265]

Bladder Neck Contracture/Urethral Stricture. RCTs utilizing HoLEP indicated that the rate of bladder neck contracture was similar to the rate following open prostatectomy[256, 257] and bipolar TURP,[269] while single-cohort studies indicated that the rate of bladder neck contracture was between 1.3 and four%.[270, 281, 291, 300] The rate of bladder neck contracture following PVP laser ablation of the prostate was reported at 0% and 1%[277, 279] to 2%[265, 267, 274, 278, 280] in single-cohort studies. Urethral stricture was reported in between 0%[277] and 7.6%[274] of study participants. Urethral strictures following HoLEP were reported at rates of 0%,[291] 1.3%,[270] to 5.6%. [254]

Sexual Dysfunction. Surgical interventions have the capacity to induce sexual dysfunction in the form of ED or in the form of retrograde or absent ejaculation. These adverse events were classified as either ED or ejaculatory dysfunction. Randomized controlled studies indicate that both HoLEP and TURP increase the risk of ED and that the risk following therapy is not significantly different with either treatment.[258, 261] When HoLEP was compared with HoBNI, decreased erectile function occurred at similar rates in both groups and retrograde ejaculation was very common postoperatively (80% for HoBNI and 100% for HoLEP).[262]

Postoperative sexual function was infrequently reported after PVP therapy and studies reporting ED reported no new cases postoperatively.[265, 268, 273, 277, 286] Paick and colleagues (2007) examined sexual function at 6 months postoperatively and found that all IIEF domains improved.[289]

Ejaculatory disorders were common after HoLEP and their rate of occurrence was not significantly different from TURP.[258, 261] Single-cohort studies of HoLRP also reported similar high rates of ejaculatory disorders following treatment.[276, 294]

Transurethral Incision of the Prostate

Randomized Controlled Trials (RCTs)

A single RCT compared TUIP to TURP in 100 subjects with prostate weights not exceeding 30 g with a two-year follow-up.[301]

In this RCT, both groups improved significantly in nocturnal voiding frequency, I-PSS, QoL, and Qmax but there were no statistically significant differences in these outcomes between groups, except for QoL, for which the percentage change was greater with TURP.[301]

Transurethral Vaporization of the Prostate

Randomized Controlled Trials (RCTs)

We identified 10 RCTs comparing TUVP with standard TURP using a variety of electro-vaporization devices.[302-312] Inclusion and exclusion criteria were generally similar across studies, excluding subjects with prior pelvic surgery, prostate cancer, and neurologic disorders. Recruitment occurred from accessible populations awaiting surgery for BPH but details were rarely provided on how subjects were selected. The mean age of study participants was similar across studies, ranging between approximately 65 and 70 years. The mean baseline I-PSS was generally between 20 and 25; however, in two studies some of the study groups had lower mean scores.[305, 312] The QoL score was between four and five in studies reporting those baseline data. There was significant variation in Qmax at baseline, ranging from two to 20 mL per second in individual treatment groups. There was also much variation in preoperative prostate gland size: one study examined small glands (mean prostate volume of treatment groups ranged from 24 to 34 mL),[305] while another examined larger glands (mean of treatment groups, 54 mL and 63 mL).[308] TUVP was performed with a variety of vaporization devices and the comparator in these studies was standard TURP. Several studies reported on "vaporization" techniques using the bipolar vaporization device (Gyrus Medical)[313-315] and these studies are examined in the section on TURP in this report.

Efficacy and Effectiveness Outcomes

AUA-SI was measured in all 10 trials comparing TURP to TUVP.[302-312] These trials consistently demonstrated improvements in I-PSS after both TURP and TUVP, generally with no statistically significant difference between treatment groups. The only study that demonstrated a significant difference reported that I-PSS improved more with a thick loop TUVP than with the standard thin loop TURP at one-year of follow-up.[302] Several studies examined I-PSS and QoL at longer follow-up periods and found no difference between treatments. Qmax improved in both treatment groups; however the between-group error was inconsistent across studies. In studies where post-void residual was compared between treatments, no significant differences were found, with improvements noted with both treatments.[302, 304, 306, 308-311]

Safety Outcomes

Withdrawals and Treatment Failure

Withdrawal rates were only reported in three of the 10 trials, with high rates of attrition when follow-up was two years or more. Mortality rates were low, largely due to cardiovascular disease, and never attributed to the surgical intervention. Reoperation rates were higher with TUVP than with TURP. At 12-months follow-up, reoperation for AUR rates were 8% with TUVP and 4% with TURP.[303] At the five-year follow-up, 13% of both the TURP and TUVP treatment arms required reoperation.[309]

Perioperative and Short-term Adverse Events

The weight of resected tissue was similar between groups in studies reporting this outcome.[302, 305, 308, 310, 312] Operative time was similar in TURP and TUVP in six studies,[302-305, 311] significantly longer with TURP in two studies[308, 310], and significantly longer with TUVP than TURP in another study.[309] Operative blood loss was significantly greater with TURP than TUVP in the three studies examining this outcome.[303, 304, 308] Blood transfusions were given in the perioperative period more frequently with TURP than TUVP.[304, 306]

Duration of catheterization was significantly greater with TURP than TUVP in several studies,[304, 309, 312] although two studies noted no difference[306, 308]. Duration of hospital stay was consistently longer with TURP than with TUVP,[306, 308-310, 312] with a statistically significant difference in two studies.[309, 310] Recatheterization rates were generally low and similar between TUVP and TURP groups. One study, however, reported higher rates of postoperative urinary retention: 23% with TUVP and 8% with TURP.[309]

Longer-term Adverse Events

Urethral stricture and bladder neck stenosis were uncommon and occurred with both treatments. ED at follow-up was reported at rates identical to baseline in both groups in three studies.[302, 304, 306, 311]

Transurethral Resection of the Prostate

Randomized Controlled Trials (RCTs)

A total of 11 RCTs compared standard monopolar TURP to various bipolar TURP techniques.[313-323] One additional RCT compared preoperative treatment with dutasteride to placebo, both followed by standard TURP.[324] Subjects all had LUTS suggestive of BPH; in most studies few other inclusion criteria were reported. Total sample size ranged between 40[323] and 240 subjects[317] and follow-up intervals varied between three weeks[319] and 21 months.[323] The mean age of subjects in these RCTs was in the 60's, with baseline I-PSS between 20 and 24, QoL score between two and four, and Qmax between 5.1 and 10.9 mL per second. The two main bipolar techniques used were the Gyrus Plasmakinetic System (Gyrus, Birmingham, UK),[313-317, 319, 320] and the AMCI Elite system (ACMI Corp).[322] One study referred to transurethral resection in saline (TURIS) system using bipolar electrodes at 270W for cutting and 75W for coagulation, with no other specification.[321]

Cohort Studies with a Comparison Group

We identified two cohort studies with comparison groups.[325, 326] Lee and colleagues (2005) compared TURP to TURP plus TUIP over a mean follow-up of 38 months with 1135 patients available for the retrospective analysis.[325] A second study compared the Gyrus Plasmakinetic system with monopolar TURP.[326]

Single-group Cohort Studies

Nineteen single-group cohort studies were identified which examined TURP efficacy, effectiveness, or adverse events.[327-345] Inclusion criteria were similar across cohort studies and were similar to those reported above for RCTs of TURP. Methods for recruiting subjects or identifying the study cohort were not generally reported. Sample size varied greatly (ranging from 21 to 1,014 participants), and seven studies had a sample size greater than 200 participants.[327, 335, 336, 339, 342-344] Duration of follow-up ranged between one day[330] and 13 years,[344] with most studies ranging between three and 12 months. One study reported a combined cohort of TURP (65%) and open prostatectomy (35%).[338]

The mean age of included subjects was generally in the late 60's and early 70's, thus somewhat older than the mean age in RCTs of TURP. Standard monopolar TURP procedures were examined in most of these studies, with no additional details provided. Three studies examined the Gyrus Plasmakinetic (bipolar) system[328, 334, 335] and another a coagulating intermittent cutting device.[327]

Efficacy and Effectiveness Outcomes

Total I-PSS and QoL improved significantly in all studies reporting these outcomes. Erectile function did not change significantly as assessed with the IIEF six months post-TURP.[342]

Postvoid residual decreased significantly in all studies and Qmax increased in all studies in the range of 6 to 10 mL per second. Prostate volume decreased by approximately 20 g in two studies.[334, 342]

Predictors of Efficacy and Effectiveness Outcomes

Several studies examined the relationship between various demographic and clinical characteristics and efficacy or effectiveness outcomes.[337, 340, 343-345] Machino and colleagues (2002) categorized 62 patients into those with equivocal obstruction and those with obstructive symptoms, as defined by the Abrams-Griffins nomograph.[337] The authors concluded that neither urodynamic obstruction nor detrusor instability alone predicted outcomes of TURP; however, outcomes were significantly worse in patients who were not obstructed but had detrusor instability. Age was predictive of postoperative Qmax and overall complication rates.[340] Seki and colleagues (2006) found that a higher degree of BOO (Schafer obstruction grade) predicted improvements in I-PSS and QoL and that baseline detrusor overactivity negatively predicted these outcomes.[343] In a retrospective cohort study of 217 patients who underwent TURP with a long-term mean follow-up (13 years, SD 4.1) symptomatic failure and decreased flow rate were associated with detrusor underactivity rather than obstruction.[344] Preoperative obstruction grade (Schafer) correlated with improvements in obstruction grade, symptom index, and QoL.[345] Patients with a stable bladder postoperatively (either stable or unstable preoperatively) showed significantly better improvement in I-PSS and QoL than patients in whom an unstable bladder persisted or developed postoperatively.

Safety Outcomes

Withdrawals and Adverse Events

Treatment Failure. Treatment failure rates were infrequently reported; in one study, 13.3% were operated on for urinary retention post-TURP.[327]

Perioperative and Short-term Adverse Events. Intracapsular perforation was reported in 5% of 522 subjects in the only study reporting this outcome.[342] TUR syndrome was reported at rates of 1.1%[327] and two% of subjects.[342] Transfusions occurred in 2% to 9% of patients, with the highest rate occurring in a study with prostates estimated between 70 g and 150 g preoperatively.[340] Clot retention was infrequent in the only study reporting this outcome (2.3%).[335] Mean catheter time was 1.3 days in one study[335] and longer in another study of larger prostates.[340]

Longer-term Complications. Urethral stricture was reported in 1.8% of men with glands less than 70 g and 3.5% of those with larger glands (70-150 g) in one study[340] and 10%[335] in a second study. Bladder neck stenosis was reported in approximately 1.5%.[345,335] Mortality rates were infrequently reported in prospective cohort studies.

Monopolar TURP vs. Various Bipolar TURP. Operating or resection time varied across studies and was similar between the Gyrus Plasmakinetic system and standard TURP in four studies,[346-349] but significantly less with the Plasmakinetic system compared with standard TURP in other studies.[350-352] TUR syndrome was reported at rates of 0%,[346, 349, 351-353] 0.8%,[354] 1.7%[350] and 3.9%[347] with standard TURP and 0% with the comparison bipolar technique in all studies.

Hemorrhage requiring transfusion was reported more frequently with standard TURP (5.3%,[350] 2.0%[347] and 5.4%[351]) compared with the Plasmakinetic system (0.8%, 0% and 0%, repectively). Perioperative transfusion was reported more frequently with the TURIS system than with standard TURP (3.4% vs. 0.8%). Intraoperative complications were rarely reported; capsule perforation occurred in 5.7% of subjects with TURP and 1.7% with PK-TURP.[350] Hospital stay was significantly shorter ($P<0.05$) with the PK-TURP than with standard TURP.[348, 350, 351] Duration of catheterization was also shorter with the Plasmakinetic system than with standard TURP.[346-348, 350-352] Duration of catheterization was not significantly different between the AMCI Elite system and TURP.[353]

Use of preoperative 5-alpha-reductase inhibitors. Four randomized, placebo-controlled, well executed studies,[355, 356 357, 358] two non-controlled[359, 360] and one randomized study with poorly defined methods of measuring the blood loss[361] explored the ability of 5-ARIs prior to TURP to reduce blood loss associated with TURP. Only one of the randomized and the two nonrandomized studies showed a reduction in blood loss or transfusion requirements. Other studies found no significant differences between the treatment group and placebo for blood loss during surgery, excessive or severe bleeding, or clot retention.[362]

Summary

Surgical therapies remain a principal option in management of men with moderate to severe LUTS and/or those who are significantly bothered by these symptoms. The updated literature review revealed remarkable evolution in the technology and broadening evidence for various forms of transurethral lasers and bipolar TURP. Open prostatectomy, TUIP and monopolar TURP remain as gold standards by which newer transurethral approaches are compared.

References

1. Hansen B, Flyger H, Brasso K et al: Validation of the self-administered Danish Prostatic Symptom Score (DAN-PSS-1) system for use in benign prostatic hyperplasia. BIJU 1995; **76**: 451.

2. Barry M, Fowler F, Jr, O'Leary M et al: Measurement Committee of the American Urological Association. Med Care 1995; **22**: AS145.

3. Yanoshak S, Roehrborn C, Girman C et al: Use of a prostate model to assist in training for digital rectal examination. Urology 2000; **55**: 690.

4. Roehrborn C, Sech S, Montoya J et al: Interexaminer reliability and validity of a three-dimensional model to assess prostate volume by digital rectal examination. Urology 2001; **57**: 1087.

5. Wasson J, Reda D, Bruskewitz R et al: A comparison of transurethral surgery with watchful waiting for moderate symptoms of benign prostatic hyperplasia. The Veterans Affairs Cooperative Study Group on Transurethral Resection of the Prostate. N Engl J Med 1995; **332**: 75.

6. Roehrborn C, Bruskewitz R, Nickel G et al: Urinary retention in patients with BPH treated with finasteride or placebo over 4 years. Characterization of patients and ultimate outcomes.The PLESS Study Group. Eur Urol 2000; **37**: 528.

7. Roehrborn C, Burkhard F, Bruskewitz R et al: The effects of transurethral needle ablation and resection of the prostate on pressure flow urodynamic parameters: analysis of the United States randomized study. J Urol 1999; **162**: 92.

8. AUA guideline on management of benign prostatic hyperplasia (2003). Chapter 1: Diagnosis and treatment recommendations. J Urol 2003; **170**: 530.

9. Crawford E, Wilson S, McConnell J et al: Baseline factors as predictors of clinical progression of benign prostatic hyperplasia in men treated with placebo. J Urol 2006; **175**: 1422.

10. Djavan B, Fong Y, Harik M et al: Longitudinal study of men with mild symptoms of bladder outlet obstruction treated with watchful waiting for four years. Urology 2004; **64**: 1144.

11. Sarma A, McLaughlin J, Jacobsen S et al: Longitudinal changes in lower urinary tract symptoms among a cohort of black American men: the Flint Men's Health Study. Urology 2004; **64**: 959.

12. Temml C, Brossner C, Schatzl G et al: The natural history of lower urinary tract symptoms over five years. Eur Urol 2003; **43**: 374.

13. Caine M, Raz S, Zeigler M: Adrenergic and cholinergic receptors in the human prostate, prostatic capsule and bladder neck. Br J Urol 1975; **47**: 193.

14. Furuya S, Kumamoto Y, Yokoyama E et al: Alpha-adrenergic activity and urethral pressure in prostatic zone in benign prostatic hypertrophy. J Urol 1982; **128**: 836.

15. Kobayashi S, Tang R, Shapiro E et al: Characterization and localization of prostatic alpha 1 adrenoceptors using radioligand receptor binding on slide-mounted tissue section. J Urol 1993; **150**: 2002.

16. Lepor H: Alpha blockade for the treatment of benign prostatic hyperplasia. Urol Clin North Am 1995; **22**: 375.

17. Yokoyama E, EFuruya S, Kumamoto Y: Quantitation of alpha-1 and beta adrenergic receptor densities in the human normal and hypertrophied prostate. Nippon Hinyokika Gakkai Zasshi 1985; **76**: 325.

18. Lepor H: Long-term efficacy and safety of terazosin in patients with benign prostatic hyperplasia. Terazosin Research Group. Urology 1995; **45**: 406.

19. Price D, Schwinn D, Lomasney J et al: Identification, quantification, and localization of mRNA for three distinct alpha 1 adrenergic receptor subtypes in human prostate. J Urol 1993; **150**: 564.

20. Malloy B, Price D, Price R et al: Alpha1-adrenergic receptor subtypes in human detrusor. J Urol 1998; **160**: 937.

21. Smith M, Schambra U, Wilson K et al: Alpha1-adrenergic receptors in human spinal cord: specific localized expression of mRNA encoding alpha1-adrenergic receptor subtypes at four distinct levels. Brain Res Mol Brain Res 1999; **63**: 254.

22. Michel M, Bressel H, Goepel M et al: A 6-month large-scale study into the safety of tamsulosin. Br J Clin Pharmacol 2001; **51**: 609.

23. Chappel C: Selective alpha 1 adrenoceptor agonstis in benign prostatic hyperplasia: rationale and clinical experience. Eur Urol 1996; **29**: 129.

24. Roehrborn C: Efficacy and safety of once-daily alfuzosin in the treatment of lower urinary tract symptoms and clinical benign prostatic hyperplasia: a randomized, placebo-controlled trial. Urology 2001; **58**: 953.

25. McNeill S, Hargreave T, Roehrborn C: Alfuzosin 10 mg once daily in the management of acute urinary retention: results of a double-blind placebo-controlled study. Urology 2005; **65**: 83.

26. Roehrborn C: Alfuzosin 10 mg once daily prevents overall clinical progression of benign prostatic hyperplasia but not acute urinary retention: results of a 2-year placebo-controlled study. BJU Int 2006; **97**: 734.

27. van Kerrebroeck P, Jardin A, Laval K et al: Efficacy and safety of a new prolonged release formulation of alfuzosin 10 mg once daily versus alfuzosin 2.5 mg thrice daily and placebo in

patients with symptomatic benign prostatic hyperplasia. ALFORTI Study Group. Eur Urol 2000; **37**: 306.

28. de Reijke T, Klarskov P: Comparative efficacy of two alpha-adrenoreceptor antagonists, doxazosin and alfuzosin, in patients with lower urinary tract symptoms from benign prostatic enlargement. BJU Int 2004; **93**: 757.

29. Roehrborn C, Van Kerrebroeck P, Nordling J: Safety and efficacy of alfuzosin 10 mg once-daily in the treatment of lower urinary tract symptoms and clinical benign prostatic hyperplasia: a pooled analysis of three double-blind, placebo-controlled studies. BJU Int 2003; **92**: 257.

30. Shah T, Palit V, Biyani S et al: Randomised, placebo controlled, double blind study of alfuzosin SR in patients undergoing trial without catheter following acute urinary retention. Eur Urol 2002; **42**: 329.

31. Hartung R, Matzkin H, Alcaraz A et al: Age, comorbidity and hypertensive co-medication do not affect cardiovascular tolerability of 10 mg alfuzosin once daily. J Urol 2006; **175**: 624.

32. van Moorselaar R, Hartung R, Emberton M et al: Alfuzosin 10 mg once daily improves sexual function in men with lower urinary tract symptoms and concomitant sexual dysfunction. BJU Int 2005; **95**: 603.

33. Elhilali M: Alfuzosin: an alpha1-receptor blocker for the treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia. Expert Opin Pharmacother 2006; **7**: 583.

34. Vallancien G, Emberton M, Alcaraz A et al: Alfuzosin 10 mg once daily for treating benign prostatic hyperplasia: a 3-year experience in real-life practice. BJU Int 2008; **101**: 847.

35. Saad F, Nickel J, Valiquette L et al: Early symptom improvement of benign prostatic hyperplasia (BPH) treated with once daily alfuzosin. Can J Urol 2005; **12**: 2745.

36. Lukacs B, Grange J, Comet D: One-year follow-up of 2829 patients with moderate to severe lower urinary tract symptoms treated with alfuzosin in general practice according to IPSS and a health-related quality-of-life questionnaire. BPM Group in General Practice. Urology 2000; **55**: 540.

37. Group TIAC-O: Safety, efficacy and impact on Patients' quality of life of a long-term treatment with the alpha(1)-blocker alfuzosin in symptomatic patients with BPH. The Italian Alfuzosin Co-Operative Group. Eur Urol 2000; **37**: 680.

38. van Kerrebroec P, Jardin A, van Cangh P et al: Long-term safety and efficacy of a once-daily formulation of alfuzosin 10 mg in patients with symptomatic benign prostatic hyperplasia: open-label extension study. Eur Urol 2002; **41**: 54.

39. Emberton M, Elhilali M, Matzkin H et al: Symptom deterioration during treatment and history of AUR are the strongest predictors for AUR and BPH-related surgery in men with LUTS treated with alfuzosin 10 mg once daily. Urology 2005; **66**: 316.

40. Nickel J, Elhilali M, Emberton M et al: The beneficial effect of alfuzosin 10 mg once daily in 'real-life' practice on lower urinary tract symptoms (LUTS), quality of life and sexual dysfunction in men with LUTS and painful ejaculation. BJU Int 2006; **97**: 1242.

41. Lukacs B, Grange J, Comet D et al: History of 7,093 patients with lower urinary tract symptoms related to benign prostatic hyperplasia treated with alfuzosin in general practice up to 3 years. Eur Urol 2000; **37**: 183.

42. MacDiarmid S, Emery R, Ferguson S et al: A randomized double-blind study assessing 4 versus 8 mg. doxazosin for benign prostatic hyperplasia. J Urol 1999; **162**: 1629.

43. Kirby R, O'Leary M, Carson C: Efficacy of extended-release doxazosin and doxazosin standard in patients with concomitant benign prostatic hyperplasia and sexual dysfunction. BJU Int 2005; **95**: 103.

44. Andersen M, Dahlstrand C, Hoye K: Double-blind trial of the efficacy and tolerability of doxazosin in the gastrointestinal therapeutic system, doxazosin standard, and placebo in patients with benign prostatic hyperplasia. Eur Urol 2000; **38**: 400.

45. Ozbey I, Aksoy Y, Polat O et al: Effects of doxazosin in men with benign prostatic hyperplasia: urodynamic assessment. Int Urol Nephrol 1999; **31**: 471.

46. McConnell J, Roehrborn C, Bautista O et al: The long-term effect of doxazosin, finasteride, and combination therapy on the clinical progression of benign prostatic hyperplasia. N Engl J Med 2003; **349**: 2387.

47. Kirby R: A randomized, double-blind crossover study of tamsulosin and controlled-release doxazosin in patients with benign prostatic hyperplasia. BJU Int 2003; **91**: 41.

48. Pompeo A, Rosenblatt C, Bertero E et al: A randomised, double-blind study comparing the efficacy and tolerability of controlled-release doxazosin and tamsulosin in the treatment of benign prostatic hyperplasia in Brazil. Int J Clin Pract 2006; **60**: 1172.

49. Samli M, Dincel C: Terazosin and doxazosin in the treatment of BPH: results of a randomized study with crossover in non-responders. Urol Int 2004; **73**: 125.

50. Baldwin K, Ginsberg P, Roehrborn C et al: Discontinuation of alpha-blockade after initial treatment with finasteride and doxazosin in men with lower urinary tract symptoms and clinical evidence of benign prostatic hyperplasia. Urology 2001; **58**: 203.

51. Fawzy A, Hendry A, Cook E et al: Long-term (4 year) efficacy and tolerability of doxazosin for the treatment of concurrent benign prostatic hyperplasia and hypertension. Int J Urol 1999; **6**: 346.

52. Chung B, Hong S: Long-term follow-up study to evaluate the efficacy and safety of the doxazosin gastrointestinal therapeutic system in patients with benign prostatic hyperplasia with or without concomitant hypertension. BJU Int 2006; **97**: 90.

53. De Rose A, Carmignani G, Corbu C et al: Observational multicentric trial performed with doxazosin: evaluation of sexual effects on patients with diagnosed benign prostatic hyperplasia. Urol Int 2002; **68**: 95.

54. Hernandez C, Duran R, Jara J et al: Controlled-release doxazosin in the treatment of benign prostatic hyperplasia. Prostate Cancer Prostatic Dis 2005; **8**: 375.

55. Lee J, Kim H, Lee S et al: Comparison of doxazosin with or without tolterodine in men with symptomatic bladder outlet obstruction and an overactive bladder. BJU Int 2004; **94**: 817.

56. Baldwin K, Ginsberg P, Harkaway R: Discontinuation of alpha-blockade after initial treatment with finasteride and doxazosin for bladder outlet obstruction. Urol Int 2001; **66**: 84.

57. Kirby R, Roehrborn C, Boyle P et al: Efficacy and tolerability of doxazosin and finasteride, alone or in combination, in treatment of symptomatic benign prostatic hyperplasia: the Prospective European Doxazosin and Combination Therapy (PREDICT) trial. Urology 2003; **61**: 119.

58. Kaplan S, McConnell J, Roehrborn C et al: Combination therapy with doxazosin and finasteride for benign prostatic hyperplasia in patients with lower urinary tract symptoms and a baseline total prostate volume of 25 ml or greater. J Urol 2006; **175**: 217.

59. Chapple C, Al-shukri S, Gattegno B et al: Tamsulosin oral controlled absorption system (OCAS) in patients with lower controlled absorption system (OCAS) in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia (LUTS/BPH): efficacy and tolerability in a placebo and. Eur Urol Suppl 2005; **4**: 33.

60. Kawabe K, Yoshida M, Homma Y: Silodosin, a new alpha1A-adrenoceptor-selective antagonist for treating benign prostatic hyperplasia: results of a phase III randomized, placebo-controlled, double-blind study in Japanese men. BJU Int 2006; **98**: 1019.

61. Lee E: Comparison of tamsulosin and finasteride for lower urinary tract symptoms associated with benign prostatic hyperplasia in Korean patients. J Int Med Res 2002; **30**: 584.

62. Rigatti P, Brausi M, Scarpa R et al: A comparison of the efficacy and tolerability of tamsulosin and finasteride in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Prostate Cancer Prostatic Dis 2003; **6**: 315.

63. Kaplan S, Roehrborn C, Rovner E et al: Tolterodine and tamsulosin for treatment of men with lower urinary tract symptoms and overactive bladder: a randomized controlled trial. JAMA 2006; **296**: 2319.

64. Nordling J: Efficacy and safety of two doses (10 and 15 mg) of alfuzosin or tamsulosin (0.4 mg) once daily for treating symptomatic benign prostatic hyperplasia. BJU Int 2005; **95**: 1006.

65. Roehrborn C, Siami P, Barkin J et al: The effects of dutasteride, tamsulosin and combination therapy on lower urinary tract symptoms in men with benign prostatic hyperplasia and prostatic enlargement: 2-year results from the CombAT study. J Urol 2008; **179**: 616.

66. Barkin J, Guimaraes M, Jacobi G et al: Alpha-blocker therapy can be withdrawn in the majority of men following initial combination therapy with the dual 5alpha-reductase inhibitor dutasteride. Eur Urol 2003; **44**: 461.

67. Hofner K, Claes H, De Reijke T et al: Tamsulosin 0.4 mg once daily: effect on sexual function in patients with lower urinary tract symptoms suggestive of benign prostatic obstruction. Eur Urol 1999; **36**: 335.

68. Oshika T, Ohashi Y, Inamura M et al: Incidence of intraoperative floppy iris syndrome in patients on either systemic or topical alpha(1)-adrenoceptor antagonist. Am J Ophthalmol 2007; **143**: 150.

69. Srinivasan S, Radomski S, Chung J et al: Intraoperative floppy-iris syndrome during cataract surgery in men using alpha-blockers for benign prostatic hypertrophy. J Cataract Refract Surg 2007; **33**: 1826.

70. Muzzonigro G: Tamsulosin in the treatment of LUTS/BPH: an Italian multicentre trial. Arch Ital Urol Androl 2005; **77**: 13.

71. Palacio A, Hernandez C, Marques A et al: Long-term study to assess the efficacy of tamsulosin in the control of symptoms and complications developed in patients with symptomatic benign prostatic hyperplasia (OMNICONTROL study): first-year follow-up report. Arch Esp Urol 2004; **57**: 451.

72. Norredam M, Crosby S, Munarriz R et al: Urologic complications of sexual trauma among male survivors of torture. Urology 2005; **65**: 28.

73. Batista J, Palacio A, Torrubia R et al: Tamsulosin: effect on quality of life in 2740 patients with lower urinary tract symptoms managed in real-life practice in Spain. Arch Esp Urol 2002; **55**: 97.

74. Mann R, Biswas P, Freemantle S et al: The pharmacovigilance of tamsulosin: event data on 12484 patients. BJU Int 2000; **85**: 446.

75. Johnson T, 2nd J, K, Williford W et al: Changes in nocturia from medical treatment of benign prostatic hyperplasia: secondary analysis of the Department of Veterans Affairs Cooperative Study Trial. J Urol 2003; **170**: 145.

76. Lowe F, Olson P, Padley R: Effects of terazosin therapy on blood pressure in men with benign prostatic hyperplasia concurrently treated with other antihypertensive medications. Urology 1999; **54**: 81.

77. Lepor H, Williford W, Barry M et al: The efficacy of terazosin, finasteride, or both in benign prostatic hyperplasia. Veterans Affairs Cooperative Studies Benign Prostatic Hyperplasia Study Group. N Eng J Med 1996; **33**: 533.

78. Anwarul Islam A, Kashem M, Shameem IK, SA: Efficacy of terazosin and finasteride in symptomatic benign prostatic hyperplasia: A comparative study. Bangladesh Med Res Counc Bull 2005; **31**: 54.

79. Chang D, Campbell J: Intraoperative floppy iris syndrome associated with tamsulosin. J Cataract Refract Surg 2005; **31**: 664.

80. Abdel-Aziz S, Mamalis N: Intraoperative floppy iris syndrome. Curr Opin Ophthalmol 2009; **20**: 37.

81. Amin K, Fong K, Horgan S: Incidence of intra-operative floppy iris syndrome in a U.K. district general hospital and implications for future workload. Surgeon 2008; **6**: 207.

82. Blouin M, Blouin J, Perreault S et al: Intraoperative floppy-iris syndrome associated with α1-adrenoreceptors Comparison of tamsulosin and alfuzosin. Cataract and Refractive Surgery 2007; **33**: 1227.

83. Cantrell M, Bream-Rouwenhorst H, Steffensmeir A et al: Intraoperative floppy iris syndrome associated with alph-adrenergic receptor antagonists. Ann Pharmacother 2008; **42**: 558.

84. Chadha V, Borooah S, Tey A et al: Floppy iris behaviour during cataract surgery: associations and variations. Br J Ophthamol 2007; **91**: 40.

85. Chang D, Osher R, Wang L et al: Prospective multicenter evaluation of cataract surgery in patients taking tamsulosin (Flomax). Ophthamology 2007; **114**: 957.

86. Cheung C, Awan M, Sandramouli S: Prevalence and clinical findings of tamsulosin-associated intraoperative floppy-iris syndrome. J Cataract Refracr Surg 2006; **32**: 1336.

87. Keklikci U, Isen K, Unlu K et al: Incidence, clinical findings and management of intraoperative floppy iris syndrome associated with tamsulosin. Acta Ophthalmol 2008; **87**: 306.

88. Takmaz T, Can I: Clinical features, complications, and incidence of intraoperative floppy iris syndrome in patients taking tamsulosin. Eur J Ophthalmol 2007; **17**: 909.

89. Bell C, Hatch W, Fischer H et al: Association between tamsulosin and serious ophthalmic adverse events in older men following cataract surgery. JAMA 2009; **116**: 425.

90. Andriole G, Bruchovsky N, Chung L et al: Dihydrotestosterone and the prostate: the scientific rationale for 5alpha-reductase inhibitors in the treatment of benign prostatic hyperplasia. J Urol 2004; **172**: 1399.

91. Russell D, Wilson J: Steroid 5alpha-reductase: two genes/two enzymes. Annu Rev Biochem 1994; **63**: 25.

92. Bruskewitz R, Girman C, Fowler J et al: Effect of finasteride on bother and other health-related quality of life aspects associated with benign prostatic hyperplasia. PLESS Study Group. Proscar Long-term Efficacy and Safety Study. Urology 1999; **54**: 670.

93. Kaplan S: 5alpha-reductase inhibitors: what role should they play? Urology 2001; **58**: 65.

94. Wessells H, Roy J, Bannow J et al: Incidence and severity of sexual adverse experiences in finasteride and placebo-treated men with benign prostatic hyperplasia. Urology 2003; **61**: 579.

95. McConnell J, Bruskewitz R, Walsh P et al: The effect of finasteride on the risk of acute urinary retention and the need for surgical treatment among men with benign prostatic hyperplasia. Finasteride Long-Term Efficacy and Safety Study Group.[see comment]. NEJM 1998; **338**: 557.

96. Lowe F, McConnell J, Hudson P et al: Long-term 6-year experience with finasteride in patients with benign prostatic hyperplasia. Urology 2003; **61**: 791.

97. Vaughan D, Imperato-McGinley J, McConnell J et al: Long-term (7 to 8-year) experience with finasteride in men with benign prostatic hyperplasia. Urology 2002; **60**: 1040.

98. Lam J, Romas N, Lowe F: Long-term treatment with finasteride in men with symptomatic benign prostatic hyperplasia: 10-year follow-up. Urology 2003; **61**: 354.

99. Roehrborn CG, Boyle P, Gould AL et al: Serum prostate-specific antigen as a predictor of prostate volume in men with benign prostatic hyperplasia. Urology 1999; **53**: 581.

100. Roehrborn CG, Boyle P, Bergner D et al: Serum prostate-specific antigen and prostate volume predict long-term changes in symptoms and flow rate: results of a four-year, randomized trial comparing finasteride versus placebo. PLESS Study Group. Urology 1999; **54**: 662.

101. Boyle P, Roehrborn C, Gould L: Baseline serum PSA levels predict degree of symptom improvement following therapy of BPH with finasteride. Journal of Urology 1997; **157**: 134A.

102. Roehrborn CG, McConnell JD, Lieber M et al: Serum prostate-specific antigen concentration is a powerful predictor of acute urinary retention and need for surgery in men with clinical benign prostatic hyperplasia. PLESS Study Group. Urology 1999; **53**: 473.

103. Bruskewitz R, Girman, C. J., Fowler, J., Rigby, O. F., Sullivan, M., Bracken, R. B., Fusilier, H. A., Kozlowski, D., Kantor, S. D., Johnson, E. L., Wang, D. Z., Waldstreicher, J.: Effect of finasteride on bother and other health-related quality of life aspects associated with benign prostatic hyperplasia. PLESS Study Group. Proscar Long-term Efficacy and Safety Study. Urology 1999; **54**: 670.

104. Kaplan SA, Holtgrewe, H. L., Bruskewitz, R., Saltzman, B., Mobley, D., Narayan, P., Lund, R. H., Weiner, S., Wells, G., Cook, T. J., Meehan, A., Waldstreicher, J.: Comparison of the efficacy and

safety of finasteride in older versus younger men with benign prostatic hyperplasia. Urology 2001; **57**: 1073.

105. Wessells H, Roy, J., Bannow, J., Grayhack, J., Matsumoto, A. M., Tenover, L., Herlihy, R., Fitch, W., Labasky, R., Auerbach, S., Parra, R., Rajfer, J., Culbertson, J., Lee, M., Bach, M.A., Waldstreicher, J.: Incidence and severity of sexual adverse experiences in finasteride and placebo-treated men with benign prostatic hyperplasia. Urology 2003; **61**: 579.

106. Roehrborn CG, Bruskewitz, R., Nickel, J. C., McConnell, J. D., Saltzman, B., Gittelman, M. C., Malek, G. H., Gottesman, J. E., Suryawanshi, S., Drisko, J., Meehan, A.,Waldstreicher, J." Sustained decrease in incidence of acute urinary retention and surgery with finasteride for 6 years in men with benign prostatic hyperplasia. J Urol 2004; **171**: 1194.

107. Lam JS, Romas, N. A., Lowe, F. C.: Long-term treatment with finasteride in men with symptomatic benign prostatic hyperplasia: 10-year follow-up. Urology 2003; **61**: 354.

108. Vaughan D, Imperato-McGinley, J., McConnell, J., Matsumoto, A. M., Bracken, B., Roy, J., Sullivan, M., Pappas, F., Cook, T., Daurio, C., Meehan, A., Stoner, E., Waldstreicher, J.: Long-term (7 to 8-year) experience with finasteride in men with benign prostatic hyperplasia. Urology 2002; **60**: 1040.

109. Gisleskog PO, Hermann D, Hammarlund-Udenaes M et al: The pharmacokinetic modelling of GI198745 (dutasteride), a compound with parallel linear and nonlinear elimination. Br J Clin Pharmacol 1999; **47**: 53.

110. Roehrborn CG, Boyle P, Nickel JC et al: Efficacy and safety of a dual inhibitor of 5-alpha-reductase types 1 and 2 (dutasteride) in men with benign prostatic hyperplasia. Urology 2002; **60**: 434.

111. Roehrborn CG, Lukkarinen O, Mark S et al: Long-term sustained improvement in symptoms of benign prostatic hyperplasia with the dual 5alpha-reductase inhibitor dutasteride: results of 4-year studies. BJU Int 2005; **96**: 572.

112. Barkin J, Guimaraes M, Jacobi G et al: Alpha-blocker therapy can be withdrawn in the majority of men following initial combination therapy with the dual 5alpha-reductase inhibitor dutasteride. Eur Urol 2003; **44**: 461.

113. Roehrborn CG, Siami P, Barkin J et al: The effects of dutasteride, tamsulosin and combination therapy on lower urinary tract symptoms in men with benign prostatic hyperplasia and prostatic enlargement: 2-year results from the CombAT study. J Urol 2008; **179**: 616.

114. Roehrborn CG, Boyle, P., Nickel, J. C., Hoefner, K., Andriole, G.: Efficacy and safety of a dual inhibitor of 5-alpha-reductase types 1 and 2 (dutasteride) in men with benign prostatic hyperplasia. Urology 2002; **60**: 434.

115. Barkin J, Roehrborn CG, Siami P et al: Effect of dutasteride, tamsulosin and the combination on patient-reported quality of life and treatment satisfaction in men with moderate-to-severe benign prostatic hyperplasia: 2-year data from the CombAT trial. BJU Int 2009; **103**: 919.

116. Lepor H, Williford WO, Barry MJ et al: The efficacy of terazosin, finasteride, or both in benign prostatic hyperplasia. Veterans Affairs Cooperative Studies Benign Prostatic Hyperplasia Study Group. N Engl J Med 1996; **335**: 533.

117. Kirby RS, Roehrborn C, Boyle P et al: Efficacy and tolerability of doxazosin and finasteride, alone or in combination, in treatment of symptomatic benign prostatic hyperplasia: the Prospective European Doxazosin and Combination Therapy (PREDICT) trial. Urology 2003; **61**: 119.

118. Boyle P, Gould AL, Roehrborn CG: Prostate volume predicts outcome of treatment of benign prostatic hyperplasia with finasteride: meta-analysis of randomized clinical trials. Urology 1996; **48**: 398.

119. Bautista OM, Kusek JW, Nyberg LM et al: Study design of the Medical Therapy of Prostatic Symptoms (MTOPS) trial. Control Clin Trials 2003; **24**: 224.

120. McConnell J, Roehrborn C, Bautista O et al: The Long-term Effects of Doxazosin, Finasteride and the Combination on the Clinical Progression of Benign Prostatic Hyperplasia. NEJM 2003; **349**: 2385.

121. Caulfield M, Birdsall N: International Union of Pharmacology. XVII. Classification of muscarinic acetylcholine receptors. Pharmacol Rev 1998; **50**: 279.

122. Abrams P, Kaplan S, De Koning Gans H et al: Safety and tolerability of tolterodine for the treatment of overactive bladder in men with bladder outlet obstruction. J Urol 2006; **175**: 999.

123. Athanasopoulos A, Gyftopoulos K, Giannitsas K et al: Combination treatment with an alpha-blocker plus an anticholinergic for bladder outlet obstruction: a prospective, randomized, controlled study. J Urol 2003; **169**: 2253.

124. Hofner K, Burkart M, Jacob GJ, U: Safety and efficacy of tolterodine extended release in men with overactive bladder symptoms and presumed non-obstructive benign prostatic hyperplasia. World J Urol 2007; **25**: 627.

125. Kaplan S, Walmsley K, Te A: Tolterodine extended release attenuates lower urinary tract symptoms in men with benign prostatic hyperplasia. J Urol 2005; **174**: 2273.

126. Goldmann W, Sharma A, Currier S et al: Saw palmetto berry extract inhibits cell growth and Cox-2 expression in prostatic cancer cells. Cell Biol Int 2001; **25**: 1117.

127. Kennedy J, Wang C, Wu C: Patient Disclosure about Herb and Supplement Use among Adults in the US. Ev Based Complement Alternat Med 2008; **5**: 451.

128. Bent S, Ko R: Commonly used herbal medicines in the United States: a review. Am J Med 2004; **116**: 478.

129. Habib F, Wyllie M: Not all brands are created equal: a comparison of selected components of different brands of Serenoa repens extract. Prostate Cancer Prostatic Dis 2004; **7**: 195.

130. Feifer A, Fleshner N, Klotz L: Analytical accuracy and reliability of commonly used nutritional supplements in prostate disease. J Urol 2002; **168**: 150.

131. Garrard J, Harms S, Eberly L: Variations in product choices of frequently purchased herbs: caveat emptor. Arch Intern Med 2003; **163**: 2290.

132. Wilt T, Ishani A, Rutks I et al: Phytotherapy for benign prostatic hyperplasia. Public Health Nutr 2000; **3**: 459.

133. Avins AL, Bent S: Saw palmetto and lower urinary tract symptoms: what is the latest evidence? Curr Urol Reports 2006; **7**: 260.

134. Wilt T, Ishani A, Stark G et al: Serenoa repens for benign prostatic hyperplasia (Cochrane Review). In: The Cochrane Library. Oxford: Update Software, 2002

135. Tacklind J, MacDonald R, Rutks I et al: Serenoa repens for benign prostatic hyperplasia (Cochrane Review). The Cochrane Database of Systematic Reviews 2009.

136. Bent S, Kane C, Shinohara K et al: Saw palmetto for benign prostatic hyperplasia. N Engl J Med 2006; **354**: 557.

137. Gerber GS, Kuznetsov D, Johnson BC et al: Randomized, double-blind, placebo-controlled trial of saw palmetto in men with lower urinary tract symptoms. Urology 2001; **58**: 960.

138. Willetts KE, Clements MS, Champion S et al: Serenoa repens extract for benign prostate hyperplasia: a randomized controlled trial. BJU Int 2003; **92**: 267.

139. Debruyne F, Koch G, Boyle P et al: Comparison of a phytotherapeutic agent (Permixon) with an alpha-blocker (Tamsulosin) in the treatment of benign prostatic hyperplasia: a 1-year randomized international study. Eur Urol 2002; **41**: 497.

140. Hizli F, Uygur MC: A prospective study of the efficacy of Serenoa repens, tamsulosin, and Serenoa repens plus tamsulosin treatment for patients with benign prostate hyperplasia. Int Urol Nephrol 2007; **39**: 879.

141. Barry MJ, Williford WO, Chang Y et al: Benign prostatic hyperplasia specific health status measures in clinical research: how much change in the American Urological Association symptom index and the benign prostatic hyperplasia impact index is perceptible to patients? Journal of Urology 1995; **154**: 1770.

142. Gerber G, Kuznetsov D, Johnson B et al: Randomized, double-blind, placebo-controlled trial of saw palmetto in men with lower urinary tract symptoms. Urology 2001; **58**: 960.

143. Carraro JC, Raynaud JP, Koch G et al: Comparison of phytotherapy (Permixon) with finasteride in the treatment of benign prostate hyperplasia: a randomized international study of 1,098 patients. Prostate 1996; **29**: 231.

144. Dreikorn K: Phytotherapeutic agents in the treatment of benign prostatic hyperplasia. Curr Urol Rep 2000; **1**: 103.

145. Habib FK, Ross M, Ho CK et al: Serenoa repens (Permixon) inhibits the 5alpha-reductase activity of human prostate cancer cell lines without interfering with PSA expression. Int J Cancer 2005; **114**: 190.

146. Safarinejad MR: Urtica dioica for treatment of benign prostatic hyperplasia: a prospective, randomized, double-blind, placebo-controlled, crossover study. J Herb Pharmacother 2005; **5**: 1.

147. Lopatkin N, Sivkov A, Walther C et al: Long-term efficacy and safety of a combination of sabal and urtica extract for lower urinary tract symptoms--a placebo-controlled, double-blind, multicenter trial. World J Urol 2005; **23**: 139.

148. Engelman U, Walther C, Bondarenko B: Efficacy and safety of a combination of Sabal and Urtica extract in lower urinary tract symptoms. Arzneim-Forschung/Drug Res 2006; **56**: 222.

149. Marks LS, Partin AW, Epstein JI et al: Effects of a saw palmetto herbal blend in men with symptomatic benign prostatic hyperplasia. J Urol 2000; **163**: 1451.

150. Preuss HG, Marcusen C, Regan J et al: Randomized trial of a combination of natural products (cernitin, saw palmetto, B-sitosterol, vitamin E) on symptoms of benign prostatic hyperplasia (BPH). Int Urol Nephrol 2001; **33**: 217.

151. Shi R, Xie Q, Gang X et al: Effect of saw palmetto soft gel capsule on lower urinary tract symptoms associated with benign prostatic hyperplasia: a randomized trial in Shanghai, China. J Urol 2008; **179**: 610.

152. Dogra PN, Biswas NR, Ravi AK et al: Comparative evaluation of Prostina and terazosin in the treatment of benign prostatic hyperplasia. J Indian Med Assoc 2005; **103**: 108.

153. Hill B, Belville W, Bruskewitz R et al: Transurethral needle ablation versus transurethral resection of the prostate for the treatment of symptomatic benign prostatic hyperplasia: 5-year results of a prospective, randomized, multicenter clinical trial. J Urol 2004; **171**: 2336.

154. Hindley R, Mostafid A, Brierly R et al: The 2-year symptomatic and urodynamic results of a prospective randomized trial of interstitial radiofrequency therapy vs transurethral resection of the prostate. BJU Int 2001; **88**: 217.

155. Cimentepe E, Unsal A, Saglam R: Randomized clinical trial comparing transurethral needle ablation with transurethral resection of the prostate for the treatment of benign prostatic hyperplasia: results at 18 months. J Endourol 2003; **17**: 103.

156. Leocadio D, Frenkl TS, BS: Office based transurethral needle ablation of the prostate with analgesia and local anesthesia. J Urol 2007; **178**: 2052.

157. Murai M, Tachibana M, Miki M et al: Transurethral needle ablation of the prostate: an initial Japanese clinical trial. Int J Urol 2001; **8**: 99.

158. Rosario D, Phillips JC, CR: Durability and cost-effectiveness of transurethral needle ablation of the prostate as an alternative to transurethral resection of the prostate when alpha-adrenergic antagonist therapy fails. J Urol 2007; **177**: 1047.

159. Zlotta A, Giannakopoulos X, Maehlum O et al: Long-term evaluation of transurethral needle ablation of the prostate (TUNA) for treatment of symptomatic benign prostatic hyperplasia: clinical outcome up to five years from three centers. Eur Urol 2003; **44**: 89.

160. Fujimoto K, Hosokawa Y, Tomioka A et al: Variations of transition zone volume and transition zone index after transurethral needle ablation for symptomatic benign prostatic hyperplasia. Int J Urol 2003; **10**: 392.

161. Minardi D, Garofalo F, Yehia M et al: Pressure-flow studies in men with benign prostatic hypertrophy before and after treatment with transurethral needle ablation. Urol Int 2001; **66**: 89.

162. Namiki K, Shiozawa H, Tsuzuki M et al: Efficacy of transurethral needle ablation of the prostate for the treatment of benign prostatic hyperplasia. Int J Urol 1999; **6**: 341.

163. Daehlin L, Gustavsen A, Nilsen A et al: Transurethral needle ablation for treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia: outcome after 1 year. J Endourol 2002; **16**: 111.

164. Braun M, Zumbe J, Korte D et al: Transurethral needle ablation of the prostate: an alternative minimally invasive therapeutic concept in the treatment of benign prostate hyperplasia. Urol Int 1998; **61**: 104.

165. Minardi D, Galosi A, Recchioni A et al: Diagnostic accuracy of percent free prostate-specific antigen in prostatic pathology and its usefulness in monitoring prostatic cancer patients. Urol Int 2001; **67**: 272.

166. Gravas S, Laguna M, de la Rosette J: Efficacy and safety of intraprostatic temperature-controlled microwave thermotherapy in patients with benign prostatic hyperplasia: results of a prospective, open-label, single-center study with 1-year follow-up. J Endourol 2003; **17**: 425.

167. Dahlstrand C, Walden M, Geirsson G: Transurethral microwave thermotherapy versus transurethral resection for symptomatic benign prostatic obstruction: a prospective randomized study with 2-year follow-up. BJU 1995; **76**: 614.

168. Albala D, Andriole G, Davis B: Transurethral microwave thermotherapy (TUMT) using the Thermatrx TMS-2000: durability exhibited in a study comparing TUMT with a sham procedure in patients with benign prostatic hyperplsia (BPH). J Urol 2003; **169**: 465.

169. D'anacona F, Francisca E, Witjes L et al: Transurethral resection of the prostate vs high-energy thermotherapy of the prostate in patients with benign prostatic hyperplasia: long-term results. BJU 1998; **81**: 259.

170. Francisca E, Keijzers G, d'Ancona F et al: Lower-energy thermotherapy in the treatment of benign prostatic hyperplasia: long-term follow-up results of a multicenter international study. World J Urol 1999; **17**: 279.

171. Floratos D, Kiemeney L, Rossi C et al: Long-term followup of randomized transurethral microwave thermotherapy versus transurethral prostatic resection study. J Urol 2001; **165**: 1533.

172. Ohigashi T, Nakamura K, Nakashima J et al: Long-term results of three different minimally invasive therapies for lower urinary tract symptoms due to benign prostatic hyperplasia: comparison at a single institute. Int J Urol 2007; **14**: 326.

173. Laguna M, Kiemeney L, Debruyne F et al: Baseline prostatic specific antigen does not predict the outcome of high energy transurethral microwave thermotherapy. J Urol 2002; **167**: 1727.

174. Vesely S, Knutson T, Dicuio M et al: Transurethral microwave thermotherapy: clinical results after 11 years of use. J Endourol 2005; **19**: 730.

175. Djavan B, Seitz C, Roehrborn C et al: Targeted transurethral microwave thermotherapy versus alpha-blockade in benign prostatic hyperplasia: outcomes at 18 months. Urology 2001; **57**: 66.

176. Thalmann G, Mattei A, Treuthardt C et al: Transurethral microwave therapy in 200 patients with a minimum followup of 2 years: urodynamic and clinical results. J Urol 2002; **167**: 2496.

177. Osman Y, Wadie B, El-Diasty T et al: High-energy transurethral microwave thermotherapy: symptomatic vs urodynamic success. BJU Int 2003; **91**: 365.

178. Miller P, Kastner C, Ramsey E et al: Cooled thermotherapy for the treatment of benign prostatic hyperplasia: durability of results obtained with the Targis System. Urology 2003; **61**: 1160.

179. Berger A, Niescher M, Spranger R: Transurethral microwae thermotherapy (TUMT) with the Targis System: a single centre study on78 patients with acute urniary retention and poor general health. Eur Urol 2003; **43**: 176.

180. Huidobro C, Cabezas J, Cote E: Results of a new advancement in high temperature cooled thermotherapy (TUMT) for benign prostatic hyperplasia (BPH). J Urol 2003; **169**: 390.

181. Gravas S, Laguna P, Kiemeney LdlR, JJ: Durability of 30-minute high-energy transurethral microwave therapy for treatment of benign prostatic hyperplasia: a study of 213 patients with and without urinary retention. Urology 2007; **69**: 854.

182. de la Rosette J, Floratos D, Severens J et al: Transurethral resection vs microwave thermotherapy of the prostate: a cost-consequences analysis. BJU Int 2003; **92**: 713.

183. Schelin S, Geertsen U, Walter S et al: Feedback microwave thermotherapy versus TURP/prostate enucleation surgery in patients with benign prostatic hyperplasia and persistent urinary retention: a prospective, randomized, controlled, multicenter study. Urology 2006; **68**: 795.

184. David R, Grunberger I, Shore N et al: Multicenter initial U.S. experience with CoreTherm-monitored feedback transurethral microwave thermotherapy for individualized treatment of patients with symptomatic benign prostatic hyperplasia. J Endourol 2004; **18**: 682.

185. Wagrell L, Schelin S, Nordling J et al: Three-year follow-up of feedback microwave thermotherapy versus TURP for clinical BPH: a prospective randomized multicenter study. Urology 2004; **64**: 698.

186. Mattiasson A, Wagrell L, Schelin S et al: Five-year follow-up of feedback microwave thermotherapy versus TURP for clinical BPH: a prospective randomized multicenter study. Urology 2007; **69**: 91.

187. Bock D, Price D, Fay R: Prolieve transurethral microwave thermodilation versus finasteride: results of a multicenter, randomized trial in symptomatic patients with benign prostatic hyperplasia. J Urol 2004; **171**: 410.

188. Dall'Oglio M, Srougi M, Antunes A et al: An improved technique for controlling bleeding during simple retropubic prostatectomy: a randomized controlled study. BJU Int 2006; **98**: 384.

189. Semmens J, Wisniewski Z, Bass A et al: Trends in repeat prostatectomy after surgery for benign prostate disease: application of record linkage to healthcare outcomes. BJU Int 1999; **84**: 972.

190. Kiptoon D, Magoha GO, FA: Early postoperative outcomes of patients undergoing prostatectomy for benign prostatic hyperplasia at Kenyatta National Hospital, Nairobi. East Afr Med J 2007; **84**: S40.

191. Helfand B, Mouli, S., Dedhia, R., McVary, K. T.: Management of lower urinary tract symptoms secondary to benign prostatic hyperplasia with open prostatectomy: results of a contemporary series. J Urol 2006; **176**: 2557.

192. Adam C, Hofstetter, A., Deubner, J., Zaak, D., Weitkunat, R., Seitz, M., Schneede, P.: Retropubic transvesical prostatectomy for significant prostatic enlargement must remain a standard part of urology training. Scand J Urol Nephrol 2004; **38**: 472.

193. Condie JD, Jr., Cutherell, L., Mian, A.: Suprapubic prostatectomy for benign prostatic hyperplasia in rural Asia: 200 consecutive cases. Urology 1999; **54**: 1012.

194. Gacci M, Bartoletti, R., Figlioli, S., Sarti, E., Eisner, B., Boddi, V., Rizzo, M.: "Urinary symptoms, quality of life and sexual function in patients with benign prostatic hypertrophy before and after prostatectomy: a prospective study". BJU Int 2003; **91**: 196.

195. Hill AG, Njoroge, P.: Suprapubic transvesical prostatectomy in a rural Kenyan hospital. East Afr Med J 2002; **79**: 65.

196. Tubaro A, Carter, S., Hind, A., Vicentini, C., Miano, L.: A prospective study of the safety and efficacy of suprapubic transvesical prostatectomy in patients with benign prostatic hyperplasia. J Urol 2001; **166**: 172.

197. Varkarakis I, Kyriakakis, Z., Delis, A., Protogerou, V., Deliveliotis, C.: Long-term results of open transvesical prostatectomy from a contemporary series of patients. Urology 2004; **64**: 306.

198. Sotelo R, Spaliviero, M., Garcia-Segui, A., Hasan, W., Novoa, J., Desai, M. M., Kaouk, J. H., Gill, I. S.: Laparoscopic retropubic simple prostatectomy. J Urol 2005; **173**: 757.

199. Serretta V, Morgia, G., Fondacaro, L., Curto, G., Lo bianco, A., Pirritano, D., Melloni, D., Orestano, F., Motta, M., Pavone-Macaluso, M.: Open prostatectomy for benign prostatic enlargement in southern Europe in the late 1990s: a contemporary series of 1800 interventions. Urology 2002; **60**: 623.

200. Bernie JE, Schmidt, J. D.: Simple perineal prostatectomy: lessons learned from a modern series. J Urol 2003; **170**: 115.

201. Gratzke C, Schlenker, B., Seitz, M., Karl, A., Hermanek, P., Lack, N., Stief, C. G. and Reich, O.: Complications and early postoperative outcome after open prostatectomy in patients with benign prostatic enlargement: results of a prospective multicenter study. J Urol 2007; **177**: 1419.

202. Shaheen A, Quinlan, D.: Feasibility of open simple prostatectomy with early vascular control. BJU Int 2004; **93**: 349.

203. Baumert H, Ballaro, A., Dugardin, F., Kaisary, A. V.: Laparoscopic versus open simple prostatectomy: a comparative study. J Urol 2006; **175**: 1691.

204. Tan AH, Gilling, P. J., Kennett, K. M., Fletcher, H., Fraundorfer, M. R.: Long-term results of high-power holmium laser vaporization (ablation) of the prostate. BJU Int 2003; **92**: 707.

205. Gilling PJ, Cass CB, Malcolm AR et al: Combination holmium and Nd:YAG laser ablation of the prostate: initial clinical experience. Journal of Endourology 1995; **9**: 151.

206. Gilling PJ, Cass CB, Cresswell MD et al: The use of the holmium laser in the treatment of benign prostatic hyperplasia. Journal of Endourology 1996; **10**: 459.

207. Neill MG, Gilling, P. J., Kennett, K. M., Frampton, C. M., Westenberg, A. M., Fraundorfer, M. R. and Wilson, L. C.: Randomized trial comparing holmium laser enucleation of prostate with plasmakinetic enucleation of prostate for treatment of benign prostatic hyperplasia. Urology 2006; **68**: 1020.

208. Briganti A, Naspro, R., Gallina, A., Salonia, A., Vavassori, I., Hurle, R., Scattoni, E., Rigatti, P., Montorsi, F.: "Impact on sexual function of holmium laser enucleation versus transurethral resection of the prostate: results of a prospective, 2-center, randomized trial". J Urol 2006; **175**: 1817.

209. Kuntz RM, Ahyai, S., Lehrich, K., Fayad, A.: Transurethral holmium laser enucleation of the prostate versus transurethral electrocautery resection of the prostate: a randomized prospective trial in 200 patients. J Urol 2004; **172**: 1012.

210. Montorsi F, Naspro, R., Salonia, A., Suardi, N., Briganti, A., Zanoni, M., Valenti, S., Vavassori, I., Rigatti, P.: "Holmium laser enucleation versus transurethral resection of the prostate: results from a 2-center, prospective, randomized trial in patients with obstructive benign prostatic hyperplasia". J Urol 2004; **172**: 1926.

211. Tan AH, Gilling, P. J., Kennett, K. M., Frampton, C., Westenberg, A. M., Fraundorfer, M. R.: A randomized trial comparing holmium laser enucleation of the prostate with transurethral resection of the prostate for the treatment of bladder outlet obstruction secondary to benign prostatic hyperplasia in large glands (40 to 200 grams). J Urol 2003; **170**: 1270.

212. Aho TF, Gilling, P. J., Kennett, K. M., Westenberg, A. M., Fraundorfer, M. R., Frampton, C. M.: Holmium laser bladder neck incision versus holmium enucleation of the prostate as outpatient procedures for prostates less than 40 grams: a randomized trial. J Urol 2005; **174**: 210.

213. Kuntz RM, Lehrich, K.: Transurethral holmium laser enucleation versus transvesical open enucleation for prostate adenoma greater than 100 gm.: a randomized prospective trial of 120 patients. J Urol 2002; **168**: 1465.

214. Salonia A, Suardi, N., Naspro, R., Mazzoccoli, B., Zanni, G., Gallina, A., Bua, L., Scattoni, V., Rigatti, P. and Montorsi, F.: Holmium laser enucleation versus open prostatectomy for benign prostatic hyperplasia: an inpatient cost analysis. Urology 2006; **68**: 302.

215. Kuntz RM, Lehrich, K. and Ahyai, S. A.: Holmium laser enucleation of the prostate versus open prostatectomy for prostates greater than 100 grams: 5-year follow-up results of a randomised clinical trial. Eur Urol 2008; **53**: 160.

216. Moody JA, Lingeman, J. E.: Holmium laser enucleation for prostate adenoma greater than 100 gm.: comparison to open prostatectomy. J Urol 2001; **165**: 459.

217. Elzayat EAaE, M. M.: "Holmium laser enucleation of the prostate (HoLEP): long-term results, reoperation rate, and possible impact of the learning curve". Eur Urol 2007; **52**: 1465.

218. Elzayat EA, Habib, E. I., Elhilali, M. M.: Holmium laser enucleation of prostate for patients in urinary retention. Urology 2005; **66**: 789.

219. Elzayat EA, Habib, E. I., Elhilali, M. M.: Holmium laser enucleation of the prostate: a size-independent new 'gold standard'. Urology 2005; **66**: 108.

220. Kuo RL, Paterson, R. F., Siqueira, T. M. , Jr., Watkins, S. L., Simmons, G. R., Steele, R. E., Lingeman, J. E.: Holmium laser enucleation of the prostate: morbidity in a series of 206 patients. Urology 2003; **62**: 59.

221. Kuo RL, Kim, S. C., Lingeman, J. E., Paterson, R. F., Watkins, S. L., Simmons, G. R., Steele, R. E.: Holmium laser enucleation of prostate (HoLEP): the Methodist Hospital experience with greater than 75 gram enucleations. J Urol 2003; **170**: 149.

222. Peterson MD, Matlaga, B. R., Kim, S. C., Kuo, R. L., Soergel, T. M., Watkins, S. L., Lingeman, J. E.: Holmium laser enucleation of the prostate for men with urinary retention. J Urol 2005; **174**: 998.

223. Kuntz RM, Fayad, A., Lehrich, K., Pramono, S.: Transurethral holmium laser enucleation of the prostate (HoLEP) - a prospective study on 100 patients with one year follow-up. Med Laser Appl 2001; **16**: 15.

224. Hettiarachchi JA, Samadi, A. A., Konno, S., Das, A. K.: Holmium laser enucleation for large (greater than 100 mL) prostate glands. Int J Urol 2002; **9**: 233.

225. Gilling PJ, Kennett, K. M., Fraundorfer, M. R.: Holmium laser enucleation of the prostate for glands larger than 100 g: an endourologic alternative to open prostatectomy. J Endourol 2000; **14**: 529.

226. Larner TR, Agarwal, D., Costello, A. J.: Day-case holmium laser enucleation of the prostate for gland volumes of < 60 mL: early experience. BJU Int 2003; **91**: 61.

227. Hochreiter WW, Thalmann, G. N., Burkhard, F. C., Studer, U. E.: Holmium laser enucleation of the prostate combined with electrocautery resection: the mushroom technique. J Urol 2002; **168**: 1470.

228. Kuntz RM, Lehrich, K., Ahyai, S.: Does perioperative outcome of transurethral holmium laser enucleation of the prostate depend on prostate size? J Endourol 2004; **18**: 183.

229. Gilling PJ, Mackey, M., Cresswell, M., Kennett, K., Kabalin, J. N., Fraundorfer, M. R.: Holmium laser versus transurethral resection of the prostate: a randomized prospective trial with 1-year followup. J Urol 1999; **162**: 1640.

230. Gilling PJ, Kennett, K. M., Fraundorfer, M. R.: Holmium laser resection v transurethral resection of the prostate: results of a randomized trial with 2 years of follow-up. J Endourol 2000; **14**: 757.

231. Chilton CP, Mundy, I. P., Wiseman, O.: Results of holmium laser resection of the prostate for benign prostatic hyperplasia. J Endourol 2000; **14**: 533.

232. Yamanishi T, Takei, K., Tobe, T., Ueda, T., Ito, H., Yasuda, K.: Transurethral holmium: YAG laser prostatectomy using a side-firing fiber for bladder outlet obstruction due to benign prostatic enlargement: urodynamic evaluation of surgical outcome. Eur Urol 2001; **39**: 544.

233. Bouchier-Hayes D, Anderson P, Van Appledorn S et al: KTP laser versus transurethral resection: early results of a randomized trial. J Endourol 2006; **20**: 580.

234. Bachmann A, Schurch, L., Ruszat, R., Wyler, S. F., Seifert, H. H., Muller, A., Lehmann, K., Sulser, T.: Photoselective vaporization (PVP) versus transurethral resection of the prostate (TURP): a prospective bi-centre study of perioperative morbidity and early functional outcome. Eur Urol 2005; **48**: 965.

235. Bachmann A, Ruszat, R., Wyler, S., Reich, O., Seifert, H. H., Muller, A., Sulser, T.: Photoselective vaporization of the prostate: the basel experience after 108 procedures. Eur Urol 2005; **47**: 798.

236. Carter A, Sells, H., O'Boyle, P. J.: High-power KTP laser for the treatment of symptomatic benign prostatic enlargement. BJU Int 1999; **83**: 857.

237. Fu WJ, Hong, B. F., Wang, X. X., Yang, Y., Cai, W., Gao, J. P., Chen, Y. F., Zhang, C. E.: Evaluation of greenlight photoselective vaporization of the prostate for the treatment of high-risk patients with benign prostatic hyperplasia. Asian J Androl 2006; **8**: 367.

238. Hai MA, Malek, R. S.: Photoselective vaporization of the prostate: initial experience with a new 80 W KTP laser for the treatment of benign prostatic hyperplasia. J Endourol 2003; **17**: 93.

239. Heinrich E, Schiefelbein, F. and Schoen, G.: "Technique and short-term outcome of green light laser (KTP, 80W) vaporisation of the prostate". Eur Urol 2007; **52**: 1632.

240. Malek RS, Kuntzman, R. S., Barrett, D. M.: High power potassium-titanyl-phosphate laser vaporization prostatectomy. J Urol 2000; **163**: 1730.

241. Monoski MA, Gonzalez, R. R., Sandhu, J. S., Reddy, B., Te, A. E.: Urodynamic predictors of outcomes with photoselective laser vaporization prostatectomy in patients with benign prostatic hyperplasia and preoperative retention. Urology 2006; **68**: 312.

242. Paick JS, Um, J. M., Kim, S. W. and Ku, J. H.: Influence of high-power potassium-titanyl-phosphate photoselective vaporization of the prostate on erectile function: a short-term follow-up study. J Sex Med 2007; **4**: 1701.

243. Reich O, Bachmann, A., Siebels, M., Hofstetter, A., Stief, C. G., Sulser, T.: High power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate in 66 high risk patients. J Urol 2005; **173**: 158.

244. Sandhu JS, Ng, C., Vanderbrink, B. A., Egan, C., Kaplan, S. A., Te, A. E.: High-power potassium-titanyl-phosphate photoselective laser vaporization of prostate for treatment of benign prostatic hyperplasia in men with large prostates. Urology 2004; **64**: 1155.

245. Sulser T, Reich, O., Wyler, S., Ruszat, R., Casella, R., Hofstetter, A., Bachmann, A.: Photoselective KTP laser vaporization of the prostate: first experiences with 65 procedures. J Endourol 2004; **18**: 976.

246. Te AE, Malloy, T. R., Stein, B. S., Ulchaker, J. C., Nseyo, U. O., Hai, M. A.: Impact of prostate-specific antigen level and prostate volume as predictors of efficacy in photoselective vaporization prostatectomy: analysis and results of an ongoing prospective multicentre study at 3 years. BJU Int 2006; **97**: 1229.

247. Volkan T, Ihsan, T. A., Yilmaz, O., Emin, O., Selcuk, S., Koray, K., Bedi, O.: Short term outcomes of high power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate. Eur Urol 2005; **48**: 608.

248. Yuan J, Wang, H., Wu, G., Liu, H., Zhang, Y. and Yang, L.: High-power (80 W) potassium titanyl phosphate laser prostatectomy in 128 high-risk patients. Postgrad Med J 2008; **84**: 46.

249. Ruszat R, Wyler, S., Forster, T., Reich, O., Stief, C. G., Gasser, T. C., Sulser, T. and Bachmann, A.: Safety and effectiveness of photoselective vaporization of the prostate (PVP) in patients on ongoing oral anticoagulation. Eur Urol 2007; **51**: 1031.

250. Te AE, Malloy, T. R., Stein, B. S., Ulchaker, J. C., Nseyo, U. O., Hai, M. A., Malek, R. S.: Photoselective vaporization of the prostate for the treatment of benign prostatic hyperplasia: 12-month results from the first United States multicenter prospective trial. J Urol 2004; **172**: 1404.

251. Fu WJ, Hong, B. F., Yang, Y., Cai, W., Gao, J. P., Wang, C. Y., Wang, X. X.: Photoselective vaporization of the prostate in the treatment of benign prostatic hyperplasia. Chin Med J (Engl) 2005; **118**: 1610.

252. Malek RS, Kuntzman, R. S., Barrett, D. M.: Photoselective potassium-titanyl-phosphate laser vaporization of the benign obstructive prostate: observations on long-term outcomes. J Urol 2005; **174**: 1344.

253. Bach T, Herrmann T, Ganzer R et al: RevoLix vaporesection of the prostate: initial results of 54 patients with a 1-year follow-up. World J Urol 2007; **25**: 257.

254. Hettiarachchi J, Samadi A, Konno S et al: Holmium laser enucleation for large (greater than 100 mL) prostate glands. Int J Urol 2002; **9**: 233.

255. Elzayat EE, MM: Holmium laser enucleation of the prostate (HoLEP): long-term results, reoperation rate, and possible impact of the learning curve. Eur Urol 2007; **52**: 1465.

256. Kuntz R, Lehrich K: Transurethral holmium laser enucleation versus transvesical open enucleation for prostate adenoma greater than 100 gm.: a randomized prospective trial of 120 patients. J Urol 2002; **168**: 1465.

257. Kuntz R, Lehrich KA, SA: Holmium laser enucleation of the prostate versus open prostatectomy for prostates greater than 100 grams: 5-year follow-up results of a randomised clinical trial. Eur Urol 2008; **53**: 160.

258. Tan A, Gilling P, Kennett K et al: A randomized trial comparing holmium laser enucleation of the prostate with transurethral resection of the prostate for the treatment of bladder outlet obstruction secondary to benign prostatic hyperplasia in large glands (40 to 200 grams). J Urol 2003; **170**: 1270.

259. Montorsi F, Naspro R, Salonia A et al: Holmium laser enucleation versus transurethral resection of the prostate: results from a 2-center, prospective, randomized trial in patients with obstructive benign prostatic hyperplasia. J Urol 2004; **172**: 1926.

260. Briganti A, Naspro R, Gallina A et al: Impact on sexual function of holmium laser enucleation versus transurethral resection of the prostate: results of a prospective, 2-center, randomized trial. J Urol 2006; **175**: 1817.

261. Kuntz R, Ahyai S, Lehrich K et al: Transurethral holmium laser enucleation of the prostate versus transurethral electrocautery resection of the prostate: a randomized prospective trial in 200 patients. J Urol 2004; **172**: 1012.

262. Aho T, Gilling P, Kennett K et al: Holmium laser bladder neck incision versus holmium enucleation of the prostate as outpatient procedures for prostates less than 40 grams: a randomized trial. J Urol 2005; **174**: 210.

263. Yamanishi T, Takei K, Tobe T et al: Transurethral holmium: YAG laser prostatectomy using a side-firing fiber for bladder outlet obstruction due to benign prostatic enlargement: urodynamic evaluation of surgical outcome. Eur Urol 2001; **39**: 544.

264. Carter A, Sells H, O'Boyle P: High-power KTP laser for the treatment of symptomatic benign prostatic enlargement. BJU Int 1999; **83**: 857.

265. Malek R, Kuntzman R, Barrett D: Photoselective potassium-titanyl-phosphate laser vaporization of the benign obstructive prostate: observations on long-term outcomes. J Urol 2005; **174**: 1344.

266. Monoski M, Gonzalez R, Sandhu J et al: Urodynamic predictors of outcomes with photoselective laser vaporization prostatectomy in patients with benign prostatic hyperplasia and preoperative retention. Urology 2006; **68**: 312.

267. Te A, Malloy T, Stein B et al: Impact of prostate-specific antigen level and prostate volume as predictors of efficacy in photoselective vaporization prostatectomy: analysis and results of an ongoing prospective multicentre study at 3 years. BJU Int 2006; **97**: 1229.

268. Fu W, Hong B, Yang Y et al: Photoselective vaporization of the prostate in the treatment of benign prostatic hyperplasia. Chin Med J (Engl) 2005; **118**: 1610.

269. Neill M, Gilling P, Kennett K et al: Randomized trial comparing holmium laser enucleation of prostate with plasmakinetic enucleation of prostate for treatment of benign prostatic hyperplasia. Urology 2006; **68**: 1020.

270. Elzayat E, Habib E, Elhilali M: Holmium laser enucleation of prostate for patients in urinary retention. Urology 2005; **66**: 789.

271. Hochreiter W, Thalmann G, Burkhard F et al: Holmium laser enucleation of the prostate combined with electrocautery resection: the mushroom technique. J Urol 2002; **168**: 1470.

272. Tan A, Gilling P, Kennett K et al: Long-term results of high-power holmium laser vaporization (ablation) of the prostate. BJU Int 2003; **92**: 707.

273. Malek R, Kuntzman R, Barrett D: High power potassium-titanyl-phosphate laser vaporization prostatectomy. J Urol 2000; **163**: 1730.

274. Ruszat R, Wyler S, Forster T et al: Safety and effectiveness of photoselective vaporization of the prostate (PVP) in patients on ongoing oral anticoagulation. Eur Urol 2007; **51**: 1031.

275. Kuntz R, Lehrich K, Ahyai S: Does perioperative outcome of transurethral holmium laser enucleation of the prostate depend on prostate size? J Endourol 2004; **18**: 183.

276. Araki M, Lam P, Culkin DW, C: Decreased efficiency of potassium-titanyl-phosphate laser photoselective vaporization prostatectomy with long-term 5 alpha-reductase inhibition therapy: is it true? Urology 2007; **70**: 927.

277. Hai M, Malek R: Photoselective vaporization of the prostate: initial experience with a new 80 W KTP laser for the treatment of benign prostatic hyperplasia. J Endourol 2003; **17**: 93.

278. Sandhu J, Ng C, Vanderbrink B et al: High-power potassium-titanyl-phosphate photoselective laser vaporization of prostate for treatment of benign prostatic hyperplasia in men with large prostates. Urology 2004; **64**: 1155.

279. Sulser T, Reich O, Wyler S et al: Photoselective KTP laser vaporization of the prostate: first experiences with 65 procedures. J Endourol 2004; **18**: 976.

280. Volkan T, Ihsan T, Yilmaz O et al: Short term outcomes of high power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate. Eur Urol 2005; **48**: 608.

281. Kuntz R, Fayad A, Lehrich K et al: Transurethral holmium laser enucleation of the prostate (HoLEP) - a prospective study on 100 patients with one year follow-up. Med Laser Appl 2001; **16**: 15.

282. Te A, Malloy T, Stein B et al: Photoselective vaporization of the prostate for the treatment of benign prostatic hyperplasia: 12-month results from the first United States multicenter prospective trial. J Urol 2004; **172**: 1404.

283. Yuan J, Wang H, Wu G et al: High-power (80 W) potassium titanyl phosphate laser prostatectomy in 128 high-risk patients. Postgrad Med J 2008; **84**: 46.

284. Reich O, Bachmann A, Siebels M et al: High power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate in 66 high risk patients. J Urol 2005; **173**: 158.

285. Bachmann A, Ruszat R, Wyler S et al: Photoselective vaporization of the prostate: the basel experience after 108 procedures. Eur Urol 2005; **47**: 798.

286. Fu W, Hong B, Wang X et al: Evaluation of greenlight photoselective vaporization of the prostate for the treatment of high-risk patients with benign prostatic hyperplasia. Asian J Androl 2006; **8**: 367.

287. Carter A, Sells H, Speakman M et al: Quality of life changes following KTP/Nd:YAG laser treatment of the prostate and TURP. Eur Urol 1999; **36**: 92.

288. Heinrich E, Schiefelbein FS, G: Technique and short-term outcome of green light laser (KTP, 80W) vaporisation of the prostate. Eur Urol 2007; **52**: 1632.

289. Paick J, Um J, Kim SK, JH: Influence of high-power potassium-titanyl-phosphate photoselective vaporization of the prostate on erectile function: a short-term follow-up study. J Sex Med 2007; **4**: 1701.

290. Kuo R, Kim S, Lingeman J et al: Holmium laser enucleation of prostate (HoLEP): the Methodist Hospital experience with greater than 75 gram enucleations. J Urol 2003; **170**: 149.

291. Kuo R, Paterson R, Siqueira T, Jr et al: Holmium laser enucleation of the prostate: morbidity in a series of 206 patients. Urology 2003; **62**: 59.

292. Seki N, Mochida O, Kinukawa N et al: Holmium laser enucleation for prostatic adenoma: analysis of learning curve over the course of 70 consecutive cases. J Urol 2003; **170**: 1847.

293. Elzayat E, Habib E, Elhilali M: Holmium laser enucleation of the prostate: a size-independent new 'gold standard'. Urology 2005; **66**: 108.

294. Chilton C, Mundy I, Wiseman O: Results of holmium laser resection of the prostate for benign prostatic hyperplasia. J Endourol 2000; **14**: 533.

295. Salonia A, Suardi N, Naspro R et al: Holmium laser enucleation versus open prostatectomy for benign prostatic hyperplasia: an inpatient cost analysis. Urology 2006; **68**: 302.

296. Gilling P, Mackey M, Cresswell M et al: Holmium laser versus transurethral resection of the prostate: a randomized prospective trial with 1-year followup. J Urol 1999; **162**: 1640.

297. Gilling P, Kennett K, Fraundorfer M: Holmium laser resection v transurethral resection of the prostate: results of a randomized trial with 2 years of follow-up. J Endourol 2000; **14**: 757.

298. Montorsi F, Corbin J, Phillips S: Review of phosphodiesterases in the urogenital system: new directions for therapeutic intervention. J Sex Med 2004; **1**: 322.

299. Bachmann A, Schurch L, Ruszat R et al: Photoselective vaporization (PVP) versus transurethral resection of the prostate (TURP): a prospective bi-centre study of perioperative morbidity and early functional outcome. Eur Urol 2005; **48**: 965.

300. Larner T, Agarwal D, Costello A: Day-case holmium laser enucleation of the prostate for gland volumes of < 60 mL: early experience. BJU Int 2003; **91**: 61.

301. Tkocz M, Prajsner A: Comparison of long-term results of transurethral incision of the prostate with transurethral resection of the prostate, in patients with benign prostatic hypertrophy. Neurourol Urodyn 2002; **21**: 112.

302. D'Addessi A, Porreca A, Foschi N et al: Thick loop prostatectomy in the endoscopic treatment of benign prostatic hyperplasia: results of a prospective randomised study. Urol Int 2005; **74**: 114.

303. Ekengren J, Haendler L, Hahn R: Clinical outcome 1 year after transurethral vaporization and resection of the prostate. Urology 2000; **55**: 231.

304. Erdagi U, Akman R, Sargin S et al: Transurethral electrovaporization of the prostate versus transurethral resection of the prostate: a prospective randomized study. Arch Ital Urol Androl 1999; **71**: 125.

305. Ferretti S, Azzolini N, Barbieri A et al: Randomized comparison of loops for transurethral resection of the prostate: preliminary results. J Endourol 2004; **18**: 897.

306. Fowler C, McAllister W, Plail R et al: Randomised evaluation of alternative electrosurgical modalities to treat bladder outflow obstruction in men with benign prostatic hyperplasia. Health Technol Assess 2005; **9**: iii.

307. McAllister W, Karim O, Plail R et al: Transurethral electrovaporization of the prostate: is it any better than conventional transurethral resection of the prostate? BJU Int 2003; **91**: 211.

308. Gupta N, Doddamani D, Aron M et al: Vapor resection: a good alternative to standard loop resection in the management of prostates >40 cc. J Endourol 2002; **16**: 767.

309. Hammadeh M, Madaan S, Singh M et al: A 3-year follow-up of a prospective randomized trial comparing transurethral electrovaporization of the prostate with standard transurethral prostatectomy. BJU Int 2000; **86**: 648.

310. Netto N, Jr, De Lima M et al: Is transurethral vaporization a remake of transurethral resection of the prostate? J Endourol 1999; **13**: 591.

311. Nuhoglu B, Ayyildiz A, Fidan V et al: Transurethral electrovaporization of the prostate: is it any better than standard transurethral prostatectomy? 5-year follow-up. J Endourol 2005; **19**: 79.

312. van Melick H, van Venrooij G, Eckhardt M et al: A randomized controlled trial comparing transurethral resection of the prostate, contact laser prostatectomy and electrovaporization in men with benign prostatic hyperplasia: analysis of subjective changes, morbidity and mortality. J Urol 2003; **169**: 1411.

313. Karaman M, Kaya C, Ozturk M et al: Comparison of transurethral vaporization using PlasmaKinetic energy and transurethral resection of prostate: 1-year follow-up. J Endourol 2005; **19**: 734.

314. Tefekli A, Muslumanoglu A, Baykal M et al: A hybrid technique using bipolar energy in transurethral prostate surgery: a prospective, randomized comparison. J Urol 2005; **174**: 1339.

315. Fung B, Li S, Yu C et al: Prospective randomized controlled trial comparing plasmakinetic vaporesection and conventional transurethral resection of the prostate. Asian J Surg 2005; **28**: 24.

316. Akcayoz M, Kaygisiz O, Akdemir O et al: Comparison of transurethral resection and plasmakinetic transurethral resection applications with regard to fluid absorption amounts in benign prostate hyperplasia. Urol Int 2006; **77**: 143.

317. Erturhan S, Erbagci A, Seckiner I et al: Plasmakinetic resection of the prostate versus standard transurethral resection of the prostate: a prospective randomized trial with 1-year follow-up. Prostate Cancer Prostatic Dis 2007; **10**: 97.

318. Iori F, Franco G, Leonardo C et al: Bipolar transurethral resection of prostate: clinical and urodynamic evaluation. Urology 2008; **71**: 252.

319. Patankar S, Jamkar A, Dobhada S et al: PlasmaKinetic Superpulse transurethral resection versus conventional transurethral resection of prostate. J Endourol 2006; **20**: 215.

320. Yang S, Lin W, Chang H et al: Gyrus plasmasect: is it better than monopolar transurethral resection of prostate? Urol Int 2004; **73**: 258.

321. Michielsen D, Debacker T, De Boe V et al: Bipolar transurethral resection in saline--an alternative surgical treatment for bladder outlet obstruction? J Urol 2007; **178**: 2035.

322. Singh H, Desai M, Shrivastav P et al: Bipolar versus monopolar transurethral resection of prostate: randomized controlled study. J Endourol 2005; **19**: 333.

323. Yeni E, Unal D, Verit A et al: Minimal transurethral prostatectomy plus bladder neck incision versus standard transurethral prostatectomy in patients with benign prostatic hyperplasia: a randomised prospective study. Urol Int 2002; **69**: 283.

324. Hahn R, Fagerstrom T, Tammela T et al: Blood loss and postoperative complications associated with transurethral resection of the prostate after pretreatment with dutasteride. BJU Int 2007; **99**: 587.

325. Lee Y, Chiu A, Huang J: Comprehensive study of bladder neck contracture after transurethral resection of prostate. Urology 2005; **65**: 498.

326. Yoon C, Kim J, Moon K et al: Transurethral resection of the prostate with a bipolar tissue management system compared to conventional monopolar resectoscope: one-year outcome. Yonsei Med J 2006; **47**: 715.

327. Berger AP, Wirtenberger, W., Bektic, J., Steiner, H., Spranger, R., Bartsch, G., Horninger, W.: Safer transurethral resection of the prostate: coagulating intermittent cutting reduces hemostatic complications. J Urol 2004; **171**: 289.

328. Botto H, Lebret, T., Barre, P., Orsoni, J. L., Herve, J. M., Lugagne, P. M.: Electrovaporization of the prostate with the Gyrus device. J Endourol 2001; **15**: 313.

329. Chalise PRaA, C. S.: Change in urinary symptoms and quality of life in men with benign prostatic hyperplasia after transurethral resection of prostate. Nepal Med Coll J 2007; **9**: 255.

330. Chen SS, Lin, A. T., Chen, K. K. and Chang, L. S.: Hemolysis in transurethral resection of the prostate using distilled water as the irrigant. J Chin Med Assoc 2006; **69**: 270.

331. Chuang FP, Lee, S. S., Wu, S. T., Yu, D. S., Chen, H. I., Chang, S. Y., Sun, G. H.: Change in International Prostate Symptom Score after transurethral prostatectomy in Taiwanese men with benign prostate hyperplasia: use of these changes to predict the outcome. Arch Androl 2003; **49**: 129.

332. Deliveliotis C, Liakouras, C., Delis, A., Skolarikos, A., Varkarakis, J., Protogerou, V.: Prostate operations: long-term effects on sexual and urinary function and quality of life. Comparison with an age-matched control population. Urol Res 2004; **32**: 283.

333. Dimitri M: TURP with the new superpulsed radiofrequency energy: More than a gold standard. Eur Urol 1999; **36**: 331.

334. Dincel C, Samli, M. M., Guler, C., Demirbas, M., Karalar, M.: Plasma kinetic vaporization of the prostate: clinical evaluation of a new technique. J Endourol 2004; **18**: 293.

335. Falsaperla M, Cindolo, L., Saita, A., Polara, A., Bonaccorsi, A., Scavuzzo, A., Motta, M. and Morgia, G.: Transurethral resection of prostate: technical progress by bipolar Gyrus plasma-kinetic tissue management system. Minerva Urol Nefrol 2007; **59**: 125.

336. Lim KB, Wong, M. Y., Foo, K. T.: Transurethral resection of prostate (TURP) through the decades--a comparison of results over the last thirty years in a single institution in Asia. Ann Acad Med Singapore 2004; **33**: 775.

337. Machino R, Kakizaki, H., Ameda, K., Shibata, T., Tanaka, H., Matsuura, S., Koyanagi, T.: Detrusor instability with equivocal obstruction: A predictor of unfavorable symptomatic outcomes after transurethral prostatectomy. Neurourol Urodyn 2002; **21**: 444.

338. Margel D, Lifshitz, D., Brown, N., Lask, D., Livne, P. M. and Tal, R.: Predictors of nocturia quality of life before and shortly after prostatectomy. Urology 2007; **70**: 493.

339. Muntener M, Aellig, S., Kuttel, R., Gehrlach, C., Hauri, D., Strebel, R. T.: Peri-operative morbidity and changes in symptom scores after transurethral prostatectomy in Switzerland: results of an independent assessment of outcome. BJU Int 2006; **98**: 381.

340. Muzzonigro G, Milanese, G., Minardi, D., Yehia, M., Galosi, A. B., Dellabella, M.: Safety and efficacy of transurethral resection of prostate glands up to 150 ml: a prospective comparative study with 1 year of followup. J Urol 2004; **172**: 611.

341. O'Sullivan M, Murphy, C., Deasy, C., Iohom, G., Kiely, E. A., Shorten, G.: Effects of transurethral resection of prostate on the quality of life of patients with benign prostatic hyperplasia. J Am Coll Surg 2004; **198**: 394.

342. Poulakis V, Ferakis, N., Witzsch, U., de Vries, R., Becht, E.: Erectile dysfunction after transurethral prostatectomy for lower urinary tract symptoms: results from a center with over 500 patients. Asian J Androl 2006; **8**: 69.

343. Seki N, Takei, M., Yamaguchi, A., Naito, S.: Analysis of prognostic factors regarding the outcome after a transurethral resection for symptomatic benign prostatic enlargement. Neurourol Urodyn 2006; **25**: 428.

344. Thomas AW, Cannon, A., Bartlett, E., Ellis-Jones, J., Abrams, P.: The natural history of lower urinary tract dysfunction in men: minimum 10-year urodynamic followup of transurethral resection of prostate for bladder outlet obstruction. J Urol 2005; **174**: 1887.

345. Van Venrooij GE, Van Melick, H. H., Eckhardt, M. D., Boon, T. A.: Correlations of urodynamic changes with changes in symptoms and well-being after transurethral resection of the prostate. J Urol 2002; **168**: 605.

346. Iori F, Franco, G., Leonardo, C., Laurenti, C., Tubaro, A., F, D. A., Dini, D. and De Nunzio, C.: Bipolar transurethral resection of prostate: clinical and urodynamic evaluation. Urology 2008; **71**: 252.

347. Patankar S, Jamkar, A., Dobhada, S., Gorde, V.: PlasmaKinetic Superpulse transurethral resection versus conventional transurethral resection of prostate. J Endourol 2006; **20**: 215.

348. Yang S, Lin, W. C., Chang, H. K., Hsu, J. M., Lin, W. R., Chow, Y. C., Tsai, W. K., Lee, T. A., Lo, K. Y., Chow, K., Chen, M.: Gyrus plasmasect: is it better than monopolar transurethral resection of prostate? Urol Int 2004; **73**: 258.

349. Fung BT, Li, S. K., Yu, C. F., Lau, B. E., Hou, S. S.: Prospective randomized controlled trial comparing plasmakinetic vaporesection and conventional transurethral resection of the prostate. Asian J Surg 2005; **28**: 24.

350. Erturhan S, Erbagci, A., Seckiner, I., Yagci, F. and Ustun, A.: Plasmakinetic resection of the prostate versus standard transurethral resection of the prostate: a prospective randomized trial with 1-year follow-up. Prostate Cancer Prostatic Dis 2007; **10**: 97.

351. Karaman MI, Kaya, C., Ozturk, M., Gurdal, M., Kirecci, S., Pirincci, N.: Comparison of transurethral vaporization using PlasmaKinetic energy and transurethral resection of prostate: 1-year follow-up. J Endourol 2005; **19**: 734.

352. Tefekli A, Muslumanoglu, A. Y., Baykal, M., Binbay, M., Tas, A., Altunrende, F.: "A hybrid technique using bipolar energy in transurethral prostate surgery: a prospective, randomized comparison". J Urol 2005; **174**: 1339.

353. Singh H, Desai, M. R., Shrivastav, P., Vani, K.: Bipolar versus monopolar transurethral resection of prostate: randomized controlled study. J Endourol 2005; **19**: 333.

354. Michielsen DP, Debacker, T., De Boe, V., Van Lersberghe, C., Kaufman, L., Braeckman, J. G., Amy, J. J. and Keuppens, F. I.: Bipolar transurethral resection in saline--an alternative surgical treatment for bladder outlet obstruction? J Urol 2007; **178**: 2035.

355. Boccon-Gibod L, Valton M, Ibrahim H et al: [Effect of dutasteride on reduction of intraoperative bleeding related to transurethral resection of the prostate]. Prog Urol 2005; **15**: 1085.

356. Hahn RG, Fagerstrom T, Tammela TL et al: Blood loss and postoperative complications associated with transurethral resection of the prostate after pretreatment with dutasteride. BJU Int 2007; **99**: 587.

357. Donohue JF, Sharma H, Abraham R et al: Transurethral prostate resection and bleeding: a randomized, placebo controlled trial of role of finasteride for decreasing operative blood loss. J Urol 2002; **168**: 2024.

358. Sandfeldt L, Bailey DM, Hahn RG: Blood loss during transurethral resection of the prostate after 3 months of treatment with finasteride. Urology 2001; **58**: 972.

359. Crea G, Sanfilippo G, Anastasi G et al: Pre-surgical finasteride therapy in patients treated endoscopically for benign prostatic hyperplasia. Urol Int 2005; **74**: 51.

360. Ozdal O, Ozden C, Benli K et al: Effect of short-term finasteride therapy on peroperative bleeding in patients who were candidates for transurethral resection of the prostate (TUR-P): a randomized controlled study. Prostate Cancer Prostatic Dis 2005; **8**: 215.

361. Lund L, Moller Ernst-Jensen K, torring N et al: Impact of finasteride treatment on perioperative bleeding before transurethral resection of the prostate: a prospective randomized study. Scand J Urol Nephrol 2005; **39**: 160.

362. Hahn RG, Fagerstrom, T., Tammela, T. L., Van Vierssen Trip, O., Beisland, H. O., Duggan, A. and Morrill, B.: Blood loss and postoperative complications associated with transurethral resection of the prostate after pretreatment with dutasteride. BJU Int 2007; **99**: 587.

Appendices

Table of Contents

Appendix 1. BPH Guideline Panel Members and Consultants (2003)

Members

Claus G. Roehrborn, M.D., *Co-Chair*
John D. McConnell, M.D., *Co-Chair*
Michael J. Barry, M.D.
Elie Benaim, M.D.
Reginald C. Bruskewitz, M.D.
Michael L. Blute, M.D.
H. Logan Holtgrewe, M.D.
Steven A. Kaplan, M.D.
John L. Lange, M.D.
Franklin C. Lowe, M.D.
Richard G. Roberts, M.D.
Barry S. Stein, M.D.

Consultants and Staff

Hanan Bell, Ph.D.
Diann Glickman, Pharm.D.
Patrick Florer
Kirsten H. Aquino
Suzanne B. Pope
Carol Schwartz

Appendix A2*:* BPH Guideline Update Panel and Consultants (2010)

Members

Kevin T. McVary, M.D.
Northwestern University
Feinberg School of Medicine
Chicago, IL

Claus G. Roehrborn, M.D.
UT Southwestern Medical Center at Dallas
Dallas, TX

Andrew Avins, M.D., MPH
Kaiser Permanente Northern California
Division of Research
Oakland, CA

Michael J. Barry, M.D.
Massachusetts General Hospital
Boston, MA

Reginald C. Bruskewitz, M.D.
University of Wisconsin Medical School
Madison, WI

Robert F. Donnell, M.D.
Medical College of Wisconsin
Milwaukee, WI

Harris E. Foster, Jr., M.D.
Yale University School of Medicine
New Haven, CT

Chris M. Gonzalez, M.D.
Northwestern University
Feinberg School of Medicine
Chicago, IL

Steven A. Kaplan, M.D.
New York University School of Medicine
New York, NY

David F. Penson, MD, MPH
Vanderbilt University Medical Center
VA Tennessee Valley Geriatric Research, Education, and Clinical Center
Nashville, TN

James C. Ulchaker, M.D.
Cleveland Clinic Foundation
Cleveland, OH

John T. Wei, M.D.
University of Michigan Medical Center
Ann Arbor, MI

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

108710 Alfuzosin (uroxatral)--another alpha1-blocker for benign prostatic hyperplasia. Med Lett Drugs Ther. 2004 Jan 5; 46: 2-Jan

110590 AUA guideline on management of benign prostatic hyperplasia (2003). Chapter 1: Diagnosis and treatment recommendations. J Urol. 2003 Aug; 170: 530-47

152150 Benign prostatic hyperplasia (BPH). Harv Mens Health Watch. 2006; 11: 3

100580 Benign prostatic hyperplasia: a new look at an old operation. Harv Mens Health Watch. 2005 Sep; 10: 6-May

152390 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2007; 17: 77-81

156760 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2008; 18: 122-5

160040 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 1999 Jan; 9: 85-93

107460 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2004 Jan; 14: 51-4

103020 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2005 Jan; 15: 61-4

122670 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2000 Jan; 10: 45-50

119130 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2001 Jan; 11: 119-24

112290 Bibliography. Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2003 Jan; 13: 69-71

115920 Current world literature. Benign prostatic hyperplasia. Curr Opin Urol. 2002 Jan; 12: 75-80

112680 Dutasteride (Avodart) for benign prostatic hyperplasia. Med Lett Drugs Ther. 2002 Dec 23; 44: 109-10

155520 Finasteride: new indication. Benign prostatic hypertrophy: sexual disorders. Prescrire Int. 2007; 16: 147

100660 Hormones & you. Patient information page. Benign prostatic hyperplasia (enlarged prostate). J Clin Endocrinol Metab. 2005 Oct; 90: 2 p preceding inside back cover

108560 KMD 3213: KAD 3213, silodosin. Drugs R D. 2004; 5: 50-1

134070 Managing lower urinary tract symptoms in men. Drug Ther Bull. 2003 Mar; 41: 18-21

117010 Patient note: benign prostatic hyperplasia. Postgrad Med. 2001 Sep; 110: 125-6

165540 Practice parameter: the diagnosis, treatment, and evaluation of the initial urinary tract infection in febrile infants and young children. American Academy of Pediatrics. Committee on Quality Improvement. Subcommittee on Urinary Tract Infection. Pediatrics. 1999 Apr; 103: 843-52

112560 Second opinion. I have benign prostatic hyperplasia. The drug my doctor prescribed has helped somewhat, but I'm still making a lot of trips to the bathroom at night. Short of surgery, are there any new approaches to managing this condition that might be m. Mayo Clin Health Lett. 2002 Dec; 20: 8

102070 Shedding light on an enlarged prostate. Health News. 2006 Jul; 12: 5

161740 The CAG repeat within the androgen receptor gene and benign prostatic hyperplasia. J Urol. 1999 Jul; 162: 269-70

153710 Abarbanel, J. and Marcus, E. L. Impaired detrusor contractility in community-dwelling elderly presenting with lower urinary tract symptoms. Urology. 2007; 69: 436-40

133580 Abarbanel, J., Engelstein, D., Lask, D., Livne, P. M. Urinary tract infection in men younger than 45 years of age: is there a need for urologic investigation?. Urology. 2003 Jul; 62: 27-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

154000 Abaskharoun, R., Depew, W. and Vanner, S. Changes in renal function following administration of oral sodium phosphate or polyethylene glycol for colon cleansing before colonoscopy. Can J Gastroenterol. 2007; 21: 227-31

135540 Abbas, F., Siddiqui, K., Biyabani, S. R., Hasan, S. H., Talati, J. Early surgical results with intent to treat by radical retropubic prostatectomy for clinically localized prostate cancer. J Pak Med Assoc. 2002 May; 52: 200-5

133490 Abdel-Azim, M. S., Abdel-Hakim, A. M. Gastrocystoplasty in patients with an areflexic low compliant bladder. Eur Urol. 2003 Aug; 44: 260-5

134960 Abdel-Aziz, K. F., Lemack, G. E. Overactive bladder in the male patient: bladder, outlet, or both?. Curr Urol Rep. 2002 Dec; 3: 445-51

164640 Abd-el-Gawad, G., Abrahamsson, K., Hanson, E., Norlen, L., Sillen, U., Stokland, E., Hjalmas, K. Kock urinary reservoir maturation in children and adolescents: consequences for kidney and upper urinary tract. Eur Urol. 1999 Nov; 36: 443-9

104360 Abdel-Khalek, M., El-Baz, M., Ibrahiem, el-H Is extended 11-core biopsy valuable in benign prostatic hyperplasia patients with intermediate serum prostate-specific antigen (4.1-10 ng/ml) and prior negative sextant biopsy?. Scand J Urol Nephrol. 2004; 38: 315-20

110980 Abdel-Khalek, M., El-Hammady, S., Ibrahiem, el-H A 4-year follow-up of a randomized prospective study comparing transurethral electrovaporization of the prostate with neodymium: YAG laser therapy for treating benign prostatic hyperplasia. BJU Int. 2003 Jun; 91: 801-5

103800 Abdel-Khalek, M., Sheir, K. Z., El-Baz, M., Ibrahiem, el-H Is transition zone biopsy valuable in benign prostatic hyperplasia patients with serum prostate-specific antigen >10 ng/ml and prior negative peripheral zone biopsy?. Scand J Urol Nephrol. 2005; 39: 49-55

154580 Abdul, M. and Hoosein, N. Reduced Kv1.3 potassium channel expression in human prostate cancer. J Membr Biol. 2006; 214: 99-102

100040 Abdul, M., Hoosein, N. N-methyl-D-aspartate receptor in human prostate cancer. J Membr Biol. 2005 Jun; 205: 125-8

138830 Aben, K. K., Witjes, J. A., van Dijck, J. A., Schalken, J. A., Verbeek, A. L., Kiemeney, L. A. Lower incidence of urothelial cell carcinoma due to the concept of a clonal origin. Eur J Cancer. 2000 Dec; 36: 2385-9

113980 Abeygunasekera, A. M., de Silva, S., Gurusingha, A., Wijeratne, S. Management of men with a first episode of acute urinary retention due to benign prostatic enlargement. Ceylon Med J. 2001 Dec; 46: 124-5

154460 Abolyosr, A. Laparoscopic transperitoneal ureterolithotomy for recurrent lower-ureteral stones previously treated with open ureterolithotomy: initial experience in 11 cases. J Endourol. 2007; 21: 525-9

154750 Abouassaly, R., Gill, I. S. and Kaouk, J. H. Laparoscopic upper pole partial nephrectomy for duplicated renal collecting systems in adult patients. Urology. 2007; 69: 1202-5

109910 Abrahams, N. A., Bostwick, D. G., Ormsby, A. H., Qian, J., Brainard, J. A. Distinguishing atrophy and high-grade prostatic intraepithelial neoplasia from prostatic adenocarcinoma with and without previous adjuvant hormone therapy with the aid of cytokeratin 5/6. Am J Clin Pathol. 2003 Sep; 120: 368-76

121240 Abrahamsson, P. A., Dizeyi, N., Alm, P., di Sant'Agnese, P. A., Deftos, L. J., Aumuller, G. Calcitonin and calcitonin gene-related peptide in the human prostate gland. Prostate. 2000 Aug 1; 44: 181-6

119560 Abrams, P. Benign prostatic hyperplasia has precise meaning. BMJ. 2001 Jan 13; 322: 106

157160 Abrams, P. Benign prostatic hyperplasia: The term BPH is misused. Bmj. 2008; 336: 405

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

160280 Abrams, P. Evaluating lower urinary tract symptoms suggestive of benign prostatic obstruction. Scand J Urol Nephrol Suppl. 1999; 203: 1-7

122880 Ackerman, S. J., Rein, A. L., Blute, M., Beusterien, K., Sullivan, E. M., Tanio, C. P., Manyak, M. J., Strauss, M. J. Cost effectiveness of microwave thermotherapy in patients with benign prostatic hyperplasia: part I-methods. Urology. 2000 Dec 20; 56: 972-80

114430 Adam, B. L., Qu, Y., Davis, J. W., Ward, M. D., Clements, M. A., Cazares, L. H., Semmes, O. J., Schellhammer, P. F., Yasui, Y., Feng, Z., Wright, G. L. , Jr. Serum protein fingerprinting coupled with a pattern-matching algorithm distinguishes prostate cancer from benign prostate hyperplasia and healthy men. Cancer Res. 2002 Jul 1; 62: 3609-14

103390 Adam, C., Hofstetter, A., Deubner, J., Zaak, D., Weitkunat, R., Seitz, M., Schneede, P. Retropubic transvesical prostatectomy for significant prostatic enlargement must remain a standard part of urology training. Scand J Urol Nephrol. 2004; 38: 472-6

109120 Adam, R. Rho-kinase inhibitors: potential therapeutics for benign prostate hyperplasia. J Urol. 2003 Dec; 170: 2523-4

111210 Adamson, J., Morgan, E. A., Beesley, C., Mei, Y., Foster, C. S., Fujii, H., Rudland, P. S., Smith, P. H., Ke, Y. High-level expression of cutaneous fatty acid-binding protein in prostatic carcinomas and its effect on tumorigenicity. Oncogene. 2003 May 8; 22: 2739-49

137680 Ade-Ajayi, N., Wilcox, D. T., Duffy, P. G., Ransley, P. G. Upper pole heminephrectomy: is complete ureterectomy necessary?. BJU Int. 2001 Jul; 88: 77-9

137770 Adeyoju, A. B., Taylor, P., Payne, S. R. Congenital seminal vesicle cysts: an unusual but treatable cause of lower urinary tract/genital symptoms. BJU Int. 2001 Jun; 87: 901-2

115460 Adolfsson, P. I., Ahlstrand, C., Varenhorst, E., Svensson, S. P. Lysophosphatidic acid stimulates proliferation of cultured smooth muscle cells from human BPH tissue: sildenafil and papaverin generate inhibition. Prostate. 2002 Apr 1; 51: 50-8

152910 Adorini, L., Penna, G., Amuchastegui, S., Cossetti, C., Aquilano, F., Mariani, R., Fibbi, B., Morelli, A., Uskokovic, M., Colli, E. and Maggi, M. Inhibition of prostate growth and inflammation by the vitamin D receptor agonist BXL-628 (elocalcitol). J Steroid Biochem Mol Biol. 2007; 103: 689-93

107280 Aganovic, D. The role of uroflowmetry in diagnosis of infravesical obstruction in the patients with benign prostatic enlargement. Med Arh. 2004; 58: 109-11

104670 Aganovic, D., Prcic, A. Detrusor contraction duration and strength in the patients with benign prostatic enlargement. Bosn J Basic Med Sci. 2004 Feb; 4: 29-33

122110 Agarwal, D. K., Costello, A. J., Peters, J., Sikaris, K., Crowe, H. Differential response of prostate specific antigen to testosterone surge after luteinizing hormone-releasing hormone analogue in prostate cancer and benign prostatic hyperplasia. BJU Int. 2000 Apr; 85: 690-5

101120 Agirbas, I., Tatar, M., Kisa, A. Benign prostatic hyperplasia: cost and effectiveness of three alternative surgical treatment methods used in a Turkish hospital. J Med Syst. 2005 Oct; 29: 487-92

111070 Agoulnik, I. U., Krause, W. C., Bingman, W. E., 3rd, Rahman, H. T., Amrikachi, M., Ayala, G. E., Weigel, N. L. Repressors of androgen and progesterone receptor action. J Biol Chem. 2003 Aug 15; 278: 31136-48

109430 Agrawal, V., Sharma, D., Wadhwa, N. Case report: Malignant phyllodes tumor of prostate. Int Urol Nephrol. 2003; 35: 37-9

117840 Ahel, M. Z., Kovacic, K., Tarle, M. Cross-correlation of serum chromogranin A, %-F-PSA and bone scans in prostate cancer diagnosis. Anticancer Res. 2001 Mar-Apr; 21: 1363-6

136640 Ahlberg, J., Edlund, C., Wikkelso, C., Rosengren, L., Fall, M. Neurological signs are common in patients with urodynamically verified 'idiopathic' bladder overactivity. Neurourol Urodyn. 2002; 21: 65-70

154780 Ahmed, H. U., Thwaini, A., Shergill, I. S., Hammadeh, M. Y., Arya, M. and Kaisary, A. V. Greenlight prostatectomy: a challenge to the gold standard? A review of KTP photoselective vaporization of the prostate. Surg Laparosc Endosc Percutan Tech. 2007; 17: 156-63

154210 Ahmed, H., Banerjee, P. P. and Vasta, G. R. Differential expression of galectins in normal, benign and malignant prostate epithelial cells: silencing of galectin-3 expression in prostate cancer by its promoter methylation. Biochem Biophys Res Commun. 2007; 358: 241-6

160180 Ahmed, M. I., Abd-Elmotelib, F., Farag, R. M., Ziada, N. A., Khalifa, A. Evaluation of some tissue and serum biomarkers in prostatic carcinoma among Egyptian males. Clin Biochem. 1999 Aug; 32: 439-45

136300 Ahn, H. S., Park, C. M., Lee, S. W. The clinical relevance of sex hormone levels and sexual activity in the ageing male. BJU Int. 2002 Apr; 89: 526-30

112780 Aho, T. F., Gilling, P. J. Laser therapy for benign prostatic hyperplasia: a review of recent developments. Curr Opin Urol. 2003 Jan; 13: 39-44

129160 Aho, T. F., Gilling, P. J., Kennett, K. M., Westenberg, A. M., Fraundorfer, M. R., Frampton, C. M. Holmium laser bladder neck incision versus holmium enucleation of the prostate as outpatient procedures for prostates less than 40 grams: a randomized trial. J Urol. 2005 Jul; 174: 210-4

114130 Ahtoy, P., Chretien, P., Dupain, T., Rauch, C., Rouchouse, A., Delfolie, A. Alfuzosin, an alpha1-adrenoceptor antagonist for the treatment of benign prostatic hyperplasia: once daily versus 3 times daily dosing in healthy subjects. Int J Clin Pharmacol Ther. 2002 Jul; 40: 289-94

136660 Aihara, R., Blansfield, J. S., Millham, F. H., LaMorte, W. W., Hirsch, E. F. Fracture locations influence the likelihood of rectal and lower urinary tract injuries in patients sustaining pelvic fractures. J Trauma. 2002 Feb; 52: 205-8; discussion 208-9

152510 Akay, A. F., Aflay, U., Gedik, A., Sahin, H. and Bircan, M. K. Risk factors for lower urinary tract infection and bacterial stent colonization in patients with a double J ureteral stent. Int Urol Nephrol. 2007; 39: 95-8

129870 Akbal, C., Genc, Y., Burgu, B., Ozden, E., Tekgul, S. Dysfunctional voiding and incontinence scoring system: quantitative evaluation of incontinence symptoms in pediatric population. J Urol. 2005 Mar; 173: 969-73

117320 Akbay, E., Bozlu, M., Doruk, E., Akbay, E., Cayan, S., Ulusoy, E. Effect of terazosin on the lipid profile in patients with symptomatic benign prostatic hyperplasia. Urol Int. 2001; 67: 156-9

150740 Akcayoz, M., Kaygisiz, O., Akdemir, O., Aki, F. T., Adsan, O. and Cetinkaya, M. Comparison of transurethral resection and plasmakinetic transurethral resection applications with regard to fluid absorption amounts in benign prostate hyperplasia. Urol Int. 2006; 77: 143-7

113270 Akdogan, M., Hassoun, B. S., Gurakar, A., El-Sahwi, K., Jazzar, A., Wright, H., Sebastian, A., Nour, B. Prostate-specific antigen levels among cirrhotic patients. Int J Biol Markers. 2002 Jul-Sep; 17: 161-4

119720 Akduman, B., Alkibay, T., Tuncel, A., Bozkirli, I. The value of percent free prostate specific antigen, prostate specific antigen density of the whole prostate and of the transition zone in Turkish men. Can J Urol. 2000 Oct; 7: 1104-9

116410 Akduman, B., Crawford, E. D. Terazosin, doxazosin, and prazosin: current clinical experience. Urology. 2001 Dec; 58: 49-54

103840 Akhtar, M. M., Orakzai, N., Qureshi, A. M. Trans urethral electric vaporisation of prostate as an alternate to trans urethral resection in benign prostatic hyperplasia. J Ayub Med Coll Abbottabad. 2004 Oct-Dec; 16: 16-20

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

160840 Akino, H., Suzuki, Y., Oyama, N., Kanamaru, H., Okada, K. Ratio of gamma-seminoprotein to prostate-specific antigen for the detection of prostate cancer: its discrimination power could be influenced by the assay methods of PSA and/or gamma-seminoprotein. Int J Urol. 1999 Sep; 6: 440-5

160970 Akiyama, K., Hora, M., Tatemichi, S., Masuda, N., Nakamura, S., Yamagishi, R., Kitazawa, M. KMD-3213, a uroselective and long-acting alpha(1a)-adrenoceptor antagonist, tested in a novel rat model. J Pharmacol Exp Ther. 1999 Oct; 291: 81-91

135500 Akkus, E., Kadioglu, A., Esen, A., Doran, S., Ergen, A., Anafarta, K., Hattat, H. Prevalence and correlates of erectile dysfunction in Turkey: a population-based study. Eur Urol. 2002 Mar; 41: 298-304

165410 Akoh, J. A., Choon, T. C., Akyol, M. A., Kyle, K., Briggs, J. D. Outcome of renal transplantation in patients with lower urinary tract abnormality. J R Coll Surg Edinb. 1999 Apr; 44: 78-81

106420 Akporiaye, L. E. Early results of transurethral vaporisation of prostate in Nigeria. West Afr J Med. 2004 Apr-Jun; 23: 139-41

108530 Aksoy, Y., Aksoy, H., Bakan, E., Atmaca, A. F., Akcay, F. Serum insulin-like growth factor-I and insulin-like growth factor-binding protein-3 in localized, metastasized prostate cancer and benign prostatic hyperplasia. Urol Int. 2004; 72: 62-5

104480 Aksoy, Y., Aksoy, H., Ceviz, M., Yavuz Balci, A., Okyar, G., Akcay, F. The effects of extracorporeal cardiopulmonary circulation on serum total and free prostate specific antigen levels. Clin Chem Lab Med. 2005; 43: 64-7

110060 Aksoy, Y., Oral, A., Aksoy, H., Demirel, A., Akcay, F. PSA density and PSA transition zone density in the diagnosis of prostate cancer in PSA gray zone cases. Ann Clin Lab Sci. 2003 Summer; 33: 320-3

164900 Aktug, T., Olguner, M. Lower moiety heminephroureterectomy in duplex refluxing kidneys: the accuracy of isotopic scintigraphy in functional assessment. BJU Int. 1999 Jul; 84: 187

118600 Alaiya, A. A., Oppermann, M., Langridge, J., Roblick, U., Egevad, L., Brindstedt, S., Hellstrom, M., Linder, S., Bergman, T., Jornvall, H., Auer, G. Identification of proteins in human prostate tumor material by two-dimensional gel electrophoresis and mass spectrometry. Cell Mol Life Sci. 2001 Feb; 58: 307-11

118850 Alaiya, A., Roblick, U., Egevad, L., Carlsson, A., Franzen, B., Volz, D., Huwendiek, S., Linder, S., Auer, G. Polypeptide expression in prostate hyperplasia and prostate adenocarcinoma. Anal Cell Pathol. 2000; 21: 12-9

164680 Al-Ali, M., Salman, G., Rasheed, A., Al-Ani, G., Al-Rubaiy, S., Alwan, A., Al-Shaikli, A. Phenoxybenzamine in the management of neuropathic bladder following spinal cord injury. Aust N Z J Surg. 1999 Sep; 69: 660-3

121380 Alam, A. M., Sugimura, K., Okizuka, H., Ishida, J., Igawa, M. Comparison of MR imaging and urodynamic findings in benign prostatic hyperplasia. Radiat Med. 2000 Mar-Apr; 18: 123-8

107920 Alan McNeill, S. The role of alpha-blockers in the management of acute urinary retention caused by benign prostatic obstruction. Eur Urol. 2004 Mar; 45: 325-32

123700 Al-Ansari, A. A., Shokeir, A. A. Noninvasive treatment of benign prostatic hyperplasia. Where do we stand in 2005. Saudi Med J. 2006 Mar; 27: 299-304

115610 Albala, D. M., Fulmer, B. R., Turk, T. M., Koleski, F., Andriole, G., Davis, B. E., Eure, G. R., Kabalin, J. N., Lingeman, J. E., Nuzzarello, J., Sundaram, C. Office-based transurethral microwave thermotherapy using the TherMatrx TMx-2000. J Endourol. 2002 Feb; 16: 57-61

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

119890 Albala, D. M., Turk, T. M., Fulmer, B. R., Koleski, F., Andriole, G., Davis, B. E., Eure, G. R., Kabalin, J. N., Lingeman, J., Nuzzarello, J., Sundaram, C. Periurethral transurethral microwave thermotherapy for the treatment of benign prostatic hyperplasia: an interim 1-year safety and efficacy analysis using the thermatrx TMx-2000. Tech Urol. 2000 Dec; 6: 288-93

129620 Albers, M. J., Steyerberg, E. W., Hazebroek, F. W., Mourik, M., Borsboom, G. J., Rietveld, T., Huijmans, J. G., Tibboel, D. Glutamine supplementation of parenteral nutrition does not improve intestinal permeability, nitrogen balance, or outcome in newborns and infants undergoing digestive-tract surgery: results from a double-blind, randomized, controlled trial. Ann Surg. 2005 Apr; 241: 599-606

120850 Alberti, I., Barboro, P., Barbesino, M., Sanna, P., Pisciotta, L., Parodi, S., Nicolo, G., Boccardo, F., Galli, S., Patrone, E., Balbi, C. Changes in the expression of cytokeratins and nuclear matrix proteins are correlated with the level of differentiation in human prostate cancer. J Cell Biochem. 2000 Sep 7; 79: 471-85

161360 Albertsen, P. C., Pellissier, J. M., Lowe, F. C., Girman, C. J., Roehrborn, C. G. Economic analysis of finasteride: a model-based approach using data from the Proscar Long-Term Efficacy and Safety Study. Clin Ther. 1999 Jun; 21: 1006-24

114750 Albrecht, M., Gillen, S., Wilhelm, B., Doroszewicz, J., Aumuller, G. Expression, localization and activity of neutral endopeptidase in cultured cells of benign prostatic hyperplasia and prostate cancer. J Urol. 2002 Jul; 168: 336-42

109940 Albrecht, M., Mittler, A., Wilhelm, B., Lundwall, A., Lilja, H., Aumuller, G., Bjartell, A. Expression and immunolocalisation of neutral endopeptidase in prostate cancer. Eur Urol. 2003 Oct; 44: 415-22

161160 Albrecht, M., Renneberg, H., Wennemuth, G., Moschler, O., Janssen, M., Aumuller, G., Konrad, L. Fibronectin in human prostatic cells in vivo and in vitro: expression, distribution, and pathological significance. Histochem Cell Biol. 1999 Jul; 112: 51-61

132830 Aldana, J. P., Lee, B. R., Lee, W. J., El-Hakim, A., Marcovich, R., Smith, A. D. Residual air persists in the renal collecting system following percutaneous nephrolithotomy. J Laparoendosc Adv Surg Tech A. 2003 Oct; 13: 317-9

111120 Al-Durazi, M. H., Al-Helo, H. A., Al-Reefi, S. M., Al-Sanaa, S. M., Abdulwahab, W. A. Routine ultrasound in acute retention of urine. Saudi Med J. 2003 Apr; 24: 373-5

154330 Alexander, K. P., Newby, L. K., Cannon, C. P., Armstrong, P. W., Gibler, W. B., Rich, M. W., Van de Werf, F., White, H. D., Weaver, W. D., Naylor, M. D., Gore, J. M., Krumholz, H. M. and Ohman, E. M. Acute coronary care in the elderly, part I: Non-ST-segment-elevation acute coronary syndromes: a scientific statement for healthcare professionals from the American Heart Association Council on Clinical Cardiology: in collaboration with the Society of Ger. Circulation. 2007; 115: 2549-69

155800 Alexeyev, O. A., Marklund, I., Shannon, B., Golovleva, I., Olsson, J., Andersson, C., Eriksson, I., Cohen, R. and Elgh, F. Direct visualization of Propionibacterium acnes in prostate tissue by multicolor fluorescent in situ hybridization assay. J Clin Microbiol. 2007; 45: 3721-8

151480 Alexeyev, O., Bergh, J., Marklund, I., Thellenberg-Karlsson, C., Wiklund, F., Gronberg, H., Bergh, A. and Elgh, F. Association between the presence of bacterial 16S RNA in prostate specimens taken during transurethral resection of prostate and subsequent risk of prostate cancer (Sweden). Cancer Causes Control. 2006; 17: 1127-33

164410 Al-Harbi, N., Annobil, S. H., Abbag, F., Adzaku, F., Bassuni, W. Renal reabsorption of phosphate in children with sickle cell anemia. Am J Nephrol. 1999; 19: 552-4

130670 Ali, Z. A., Lim, E., Motalleb-Zadeh, R., Ali, A. A., Callaghan, C. J., Gerrard, C., Vuylsteke, A., Foweraker, J., Tsui, S. Allogenic blood transfusion does not predispose to infection after cardiac surgery. Ann Thorac Surg. 2004 Nov; 78: 1542-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

104190 Alipov, G., Nakayama, T., Ito, M., Kawai, K., Naito, S., Nakashima, M., Niino, D., Sekine, I. Overexpression of Ets-1 proto-oncogene in latent and clinical prostatic carcinomas. Histopathology. 2005 Feb; 46: 202-8

156730 Alivizatos, G. and Skolarikos, A. Greenlight laser in benign prostatic hyperplasia: turning green into gold. Curr Opin Urol. 2008; 18: 46-9

103950 Alivizatos, G., Ferakis, N., Mitropoulos, D., Skolarikos, A., Livadas, K., Kastriotis, I. Feedback microwave thermotherapy with the ProstaLund Compact Device for obstructive benign prostatic hyperplasia: 12-month response rates and complications. J Endourol. 2005 Jan-Feb; 19: 72-8

130130 Alivizatos, G., Skolarikos, A., Albanis, S., Ferakis, N., Mitropoulos, D. Unreliable residual volume measurement after increased water load diuresis. Int J Urol. 2004 Dec; 11: 1078-81

155430 Al-Kandari, A. M., Al-Shaiji, T. F., Shaaban, H., Ibrahim, H. M., Elshebiny, Y. H. and Shokeir, A. A. Effects of proximal and distal ends of double-J ureteral stent position on postprocedural symptoms and quality of life: a randomized clinical trial. J Endourol. 2007; 21: 698-702

106640 Allen, D., Butt, A., Cahill, D., Wheeler, M., Popert, R., Swaminathan, R. Role of cell-free plasma DNA as a diagnostic marker for prostate cancer. Ann N Y Acad Sci. 2004 Jun; 1022: 76-80

131310 Allepuz-Palau, A., Rossello-Urgell, J., Vaque-Rafart, J., Hermosilla-Perez, E., Arribas-Llorente, J. L., Sanchez-Paya, J., Lizan-Garcia, M. Evolution of closed urinary drainage systems use and associated factors in Spanish hospitals. J Hosp Infect. 2004 Aug; 57: 332-8

132470 Alloo, J., Gerstle, T., Shilyansky, J., Ein, S. H. Appendicitis in children less than 3 years of age: a 28-year review. Pediatr Surg Int. 2004 Jan; 19: 777-9

139480 Almallah, Y. Z., Rennie, C. D., Stone, J., Lancashire, M. J. Urinary tract infection and patient satisfaction after flexible cystoscopy and urodynamic evaluation. Urology. 2000 Jul; 56: 37-9

137500 Al-Mousawi, M., Samhan, M., Ramesh, S., Gupta, R., Nampoory, M. R. Renal transplantation in patients with abnormal lower urinary tract. Transplant Proc. 2001 Aug; 33: 2676-7

152210 Almquist, T., Forslund, L., Rehnqvist, N. and Hjemdahl, P. Prognostic implications of renal dysfunction in patients with stable angina pectoris. J Intern Med. 2006; 260: 537-44

100930 Almushatat, A. S., Talwar, D., McArdle, P. A., Williamson, C., Sattar, N., O'Reilly, D. S., Underwood, M. A., McMillan, D. C. Vitamin antioxidants, lipid peroxidation and the systemic inflammatory response in patients with prostate cancer. Int J Cancer. 2006 Feb 15; 118: 1051-3

153570 Almuti, K., Haythe, J., Tsao, L., Naka, Y. and Mancini, D. Does renal function deteriorate more rapidly in diabetic cardiac transplant recipients?. Transplantation. 2007; 83: 550-3

165810 Alon, U. S., Ganapathy, S. Should renal ultrasonography be done routinely in children with first urinary tract infection?. Clin Pediatr (Phila). 1999 Jan; 38: 21-5

126350 Al-Quran, S. Z., Olivares, A., Lin, P., Stephens, T. W., Medeiros, L. J., Abruzzo, L. V. Myeloid sarcoma of the urinary bladder and epididymis as a primary manifestation of acute myeloid leukemia with inv(16). Arch Pathol Lab Med. 2006 Jun; 130: 862-6

111380 Al-Saeed, O., Sheikh, M., Kehinde, E. O., Makar, R. Seminal vesicle masses detected incidentally during transrectal sonographic examination of the prostate. J Clin Ultrasound. 2003 May; 31: 201-6

130570 Al-Singary, W., Arya, M., Patel, H. R. Bladder neck stenosis after transurethral resection of prostate: does size matter?. Urol Int. 2004; 73: 262-5

153820 Altan-Yaycioglu, R., Yaycioglu, O., Gul, U., Pelit, A., Adibelli, F. M. and Akova, Y. A. The effects of two systemic alpha1-adrenergic blockers on pupil diameter: a prospective randomized single-blind study. Naunyn Schmiedebergs Arch Pharmacol. 2007; 375: 199-203

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

154070 Amador-Licona, N., Guizar-Mendoza, J. M., Maciel-Miranda, J. A. and Romero-Gutierrez, G. Antenatal dexamethasone and renal vascular resistance in preterm infants. J Paediatr Child Health. 2007; 43: 303-6

107600 Amayo, A., Obara, W. Serum prostate specific antigen levels in men with benign prostatic hyperplasia and cancer of prostate. East Afr Med J. 2004 Jan; 81: 22-6

156580 Ambrosini, G. L., de Klerk, N. H., Mackerras, D., Leavy, J. and Fritschi, L. Dietary patterns and surgically treated benign prostatic hyperplasia: a case control study in Western Australia. BJU Int. 2008; 101: 853-60

129580 Ameda, K., Kakizaki, H., Koyanagi, T., Hirakawa, K., Kusumi, T., Hosokawa, M. The long-term voiding function and sexual function after pelvic nerve-sparing radical surgery for rectal cancer. Int J Urol. 2005 Mar; 12: 256-63

156060 Amer, H., Fidler, M. E., Myslak, M., Morales, P., Kremers, W. K., Larson, T. S., Stegall, M. D. and Cosio, F. G. Proteinuria after kidney transplantation, relationship to allograft histology and survival. Am J Transplant. 2007; 7: 2748-56

137460 Amling, C. L. Diagnosis and management of superficial bladder cancer. Curr Probl Cancer. 2001 Jul-Aug; 25: 219-78

102390 Ammar, H., Malani, A. K., Gupta, C. Benign prostatic hyperplasia: caveat for finasteride should be discussed before prescribing. BMJ. 2006 Sep 23; 333: 654; author reply 654

108230 Amole, A. O., Kuranga, S. A., Oyejola, B. A. Sonographic assessment of postvoid residual urine volumes in patients with benign prostatic hyperplasia. J Natl Med Assoc. 2004 Feb; 96: 234-9

129780 Anast, J. W., Sadetsky, N., Pasta, D. J., Bassett, W. W., Latini, D., DuChane, J., Chan, J. M., Cooperberg, M. R., Carroll, P. R., Kane, C. J. The impact of obesity on health related quality of life before and after radical prostatectomy (data from CaPSURE). J Urol. 2005 Apr; 173: 1132-8

120680 Andersen, M., Dahlstrand, C., Hoye, K. Double-blind trial of the efficacy and tolerability of doxazosin in the gastrointestinal therapeutic system, doxazosin standard, and placebo in patients with benign prostatic hyperplasia. Eur Urol. 2000 Oct; 38: 400-9

118480 Anderson, J. B., Roehrborn, C. G., Schalken, J. A., Emberton, M. The progression of benign prostatic hyperplasia: examining the evidence and determining the risk. Eur Urol. 2001 Apr; 39: 390-9

164760 Anderson, J. W., Smith, B. M., Washnock, C. S. Cardiovascular and renal benefits of dry bean and soybean intake. Am J Clin Nutr. 1999 Sep; 70: 464S-474S

101920 Anderson, M. L. A preliminary investigation of the enzymatic inhibition of 5alpha-reduction and growth of prostatic carcinoma cell line LNCap-FGC by natural astaxanthin and Saw Palmetto lipid extract in vitro. J Herb Pharmacother. 2005; 5: 17-26

161660 Andersson, K. alpha1-adrenoceptors and bladder function. Eur Urol. 1999; 36 Suppl 1: 96-102

114890 Andersson, K. E. Alpha-adrenoceptors and benign prostatic hyperplasia: basic principles for treatment with alpha-adrenoceptor antagonists. World J Urol. 2002 Apr; 19: 390-6

155320 Andersson, K. E. LUTS treatment: future treatment options. Neurourol Urodyn. 2007; 26: 934-47

139790 Andersson, K. E. Mode of action of alpha1-adrenoreceptor antagonists in the treatment of lower urinary tract symptoms. BJU Int. 2000 Apr; 85 Suppl 2: 12-18

137480 Andersson, K. E. New roles for muscarinic receptors in the pathophysiology of lower urinary tract symptoms. BJU Int. 2000 Oct; 86 Suppl 2: 36-42; discussion 42-3

109000 Andersson, K. E. Storage and voiding symptoms: pathophysiologic aspects. Urology. 2003 Nov; 62: 10-Mar

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

152470 Andersson, K. E. Treatment-resistant detrusor overactivity--underlying pharmacology and potential mechanisms. Int J Clin Pract Suppl. 2006; : 8-16

154930 Andersson, K. E. and Gratzke, C. Pharmacology of alpha1-adrenoceptor antagonists in the lower urinary tract and central nervous system. Nat Clin Pract Urol. 2007; 4: 368-78

114850 Andersson, K. E., Chapple, C. R., Hofner, K. Future drugs for the treatment of benign prostatic hyperplasia. World J Urol. 2002 Apr; 19: 436-42

155610 Andersson, K. E., Uckert, S., Stief, C. and Hedlund, P. Phosphodiesterases (PDEs) and PDE inhibitors for treatment of LUTS. Neurourol Urodyn. 2007; 26: 928-33

131220 Andersson, S. O., Rashidkhani, B., Karlberg, L., Wolk, A., Johansson, J. E. Prevalence of lower urinary tract symptoms in men aged 45-79 years: a population-based study of 40 000 Swedish men. BJU Int. 2004 Aug; 94: 327-31

137880 Ando, M., Tadano, M., Yamamoto, S., Tamura, K., Asanuma, S., Watanabe, T., Kondo, T., Sakurai, S., Ji, R., Liang, C., Chen, X., Hong, Z., Cao, S. Health effects of fluoride pollution caused by coal burning. Sci Total Environ. 2001 Apr 23; 271: 107-16

131980 Andre, M., Molstad, S., Lundborg, C. S., Odenholt, I. Management of urinary tract infections in primary care: a repeated 1-week diagnosis-prescribing study in five counties in Sweden in 2000 and 2002. Scand J Infect Dis. 2004; 36: 134-8

154910 Andrich, D. E., Day, A. C. and Mundy, A. R. Proposed mechanisms of lower urinary tract injury in fractures of the pelvic ring. BJU Int. 2007; 100: 567-73

110800 Andriole, G. L., Kirby, R. Safety and tolerability of the dual 5alpha-reductase inhibitor dutasteride in the treatment of benign prostatic hyperplasia. Eur Urol. 2003 Jul; 44: 82-8

101790 Andriole, G. L., Marberger, M., Roehrborn, C. G. Clinical usefulness of serum prostate specific antigen for the detection of prostate cancer is preserved in men receiving the dual 5alpha-reductase inhibitor dutasteride. J Urol. 2006 May; 175: 1657-62

106090 Andriole, G. L., Roehrborn, C., Schulman, C., Slawin, K. M., Somerville, M., Rittmaster, R. S. Effect of dutasteride on the detection of prostate cancer in men with benign prostatic hyperplasia. Urology. 2004 Sep; 64: 537-41; discussion 542-3

105960 Andriole, G., Bostwick, D., Brawley, O., Gomella, L., Marberger, M., Tindall, D., Breed, S., Somerville, M., Rittmaster, R. Chemoprevention of prostate cancer in men at high risk: rationale and design of the reduction by dutasteride of prostate cancer events (REDUCE) trial. J Urol. 2004 Oct; 172: 1314-7

105920 Andriole, G., Bruchovsky, N., Chung, L. W., Matsumoto, A. M., Rittmaster, R., Roehrborn, C., Russell, D., Tindall, D. Dihydrotestosterone and the prostate: the scientific rationale for 5alpha-reductase inhibitors in the treatment of benign prostatic hyperplasia. J Urol. 2004 Oct; 172: 1399-403

105290 Ang, J., Lijovic, M., Ashman, L. K., Kan, K., Frauman, A. G. CD151 protein expression predicts the clinical outcome of low-grade primary prostate cancer better than histologic grading: a new prognostic indicator?. Cancer Epidemiol Biomarkers Prev. 2004 Nov; 13: 1717-21

100220 Angelucci, C., Iacopino, F., Lama, G., Zelano, G., Gianesini, G., Sica, G., Bono, A. V. Reverse transcriptase-PCR analysis of apoptosis-regulating gene expression in human benign prostatic hyperplasia. Anticancer Res. 2005 Nov-Dec; 25: 3937-41

112730 Anglin, I. E., Glassman, D. T., Kyprianou, N. Induction of prostate apoptosis by alpha1-adrenoceptor antagonists: mechanistic significance of the quinazoline component. Prostate Cancer Prostatic Dis. 2002; 5: 88-95

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111670 Angwafo, F. F., 3rd, Zaher, A., Befidi-Mengue, R., Wonkam, A., Takougang, I., Powell, I., Murphy, G. High-grade intra-epithelial neoplasia and prostate cancer in Dibombari, Cameroon. Prostate Cancer Prostatic Dis. 2003; 6: 34-8

101720 Annemans, L., Cleemput, I., Lamotte, M., McNeill, A., Hargreave, T. The economic impact of using alfuzosin 10 mg once daily in the management of acute urinary retention in the UK: a 6-month analysis. BJU Int. 2005 Sep; 96: 566-71

111910 Anninos, P., Papadopoulos, I., Kotini, A., Adamopoulos, A. Differential diagnosis of prostate lesions with the use of biomagnetic measurements and non-linear analysis. Urol Res. 2003 Mar; 31: 32-6

133340 Ansari, M. S., Gupta, N. P. A comparison of lycopene and orchidectomy vs orchidectomy alone in the management of advanced prostate cancer. BJU Int. 2003 Sep; 92: 375-8; discussion 378

105260 Antognelli, C., Mearini, L., Talesa, V. N., Giannantoni, A., Mearini, E. Association of CYP17, GSTP1, and PON1 polymorphisms with the risk of prostate cancer. Prostate. 2005 May 15; 63: 240-51

152610 Antunes, A. A., Freire Gde, C., Aiello Filho, D., Cury, J. and Srougi, M. Analysis of the risk factors for incidental carcinoma of the prostate in patients with benign prostatic hyperplasia. Clinics. 2006; 61: 545-50

153520 Antunes, A. A., Srougi, M., Coelho, R. F. and de Campos Freire, G. Botulinum toxin for the treatment of lower urinary tract symptoms due to benign prostatic hyperplasia. Nat Clin Pract Urol. 2007; 4: 155-60

151300 Anwarul Islam, A. K., Kashem, M. A., Shameem, I. A. and Kibria, S. A. Efficacy of terazosin and finasteride in symptomatic benign prostatic hyperplasia: A comparative study. Bangladesh Med Res Counc Bull. 2005; 31: 54-61

116510 Aoki, Y., Arai, Y., Maeda, H., Okubo, K., Shinohara, K. Racial differences in cellular composition of benign prostatic hyperplasia. Prostate. 2001 Dec 1; 49: 243-50

113320 Apolone, G., Cattaneo, A., Colombo, P., La Vecchia, C., Cavazzuti, L., Bamfi, F. Knowledge and opinion on prostate and prevalence of self-reported BPH and prostate-related events. A cross-sectional survey in Italy. Eur J Cancer Prev. 2002 Oct; 11: 473-9

131920 Apostolidis, A. N., Fowler, C. J. Evaluation and treatment of autonomic disorders of the urogenital system. Semin Neurol. 2003 Dec; 23: 443-52

126480 Apostolidis, A., Gonzales, G. E., Fowler, C. J. Effect of intravesical Resiniferatoxin (RTX) on lower urinary tract symptoms, urodynamic parameters, and quality of life of patients with urodynamic increased bladder sensation. Eur Urol. 2006 Dec; 50: 1299-305

120800 Arai, Y., Aoki, Y., Okubo, K., Maeda, H., Terada, N., Matsuta, Y., Maekawa, S., Ogura, K. Impact of interventional therapy for benign prostatic hyperplasia on quality of life and sexual function: a prospective study. J Urol. 2000 Oct; 164: 1206-11

140010 Araki, I., Kuno, S. Assessment of voiding dysfunction in Parkinson's disease by the international prostate symptom score. J Neurol Neurosurg Psychiatry. 2000 Apr; 68: 429-33

135400 Araki, I., Matsui, M., Ozawa, K., Nishimura, M., Kuno, S., Saida, T. Relationship between urinary symptoms and disease-related parameters in multiple sclerosis. J Neurol. 2002 Aug; 249: 1010-5

133050 Araki, I., Zakoji, H., Komuro, M., Furuya, Y., Fukasawa, M., Takihana, Y., Takeda, M. Lower urinary tract symptoms in men and women without underlying disease causing micturition disorder: a cross-sectional study assessing the natural history of bladder function. J Urol. 2003 Nov; 170: 1901-4

156570 Araki, M., Lam, P. N., Culkin, D. J. and Wong, C. Decreased efficiency of potassium-titanyl-phosphate laser photoselective vaporization prostatectomy with long-term 5 alpha-reductase inhibition therapy: is it true?. Urology. 2007; 70: 927-30

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

107140 Araki, T., Yokoyama, T., Kumon, H. Effectiveness of a nonsteroidal anti-inflammatory drug for nocturia on patients with benign prostatic hyperplasia: a prospective non-randomized study of loxoprofen sodium 60 mg once daily before sleeping. Acta Med Okayama. 2004 Feb; 58: 45-9

114370 Arcuri, F., Cintorino, M., Florio, P., Floccari, F., Pergola, L., Romagnoli, R., Petraglia, F., Tosi, P., Teresa Del Vecchio, M. Expression of urocortin mRNA and peptide in the human prostate and in prostatic adenocarcinoma. Prostate. 2002 Aug 1; 52: 167-72

154520 Arena, S., Fazzari, C., Arena, F., Scuderi, M. G., Romeo, C., Nicotina, P. A. and Di Benedetto, V. Altered 'active' antireflux mechanism in primary vesico-ureteric reflux: a morphological and manometric study. BJU Int. 2007; 100: 407-12

160310 Arenas, M. I., Romo, E., de Gaspar, I., de Bethencourt, F. R., Sanchez-Chapado, M., Fraile, B., Paniagua, R. A lectin histochemistry comparative study in human normal prostate, benign prostatic hyperplasia, and prostatic carcinoma. Glycoconj J. 1999 Jul; 16: 375-82

118750 Arenas, M. I., Romo, E., Royuela, M., Fraile, B., Paniagua, R. E-, N- and P-cadherin, and alpha-, beta- and gamma-catenin protein expression in normal, hyperplastic and carcinomatous human prostate. Histochem J. 2000 Nov; 32: 659-67

107170 Arger, P. H., Malkowicz, S. B., VanArsdalen, K. N., Sehgal, C. M., Holzer, A., Schultz, S. M. Color and power Doppler sonography in the diagnosis of prostate cancer: comparison between vascular density and total vascularity. J Ultrasound Med. 2004 May; 23: 623-30

101590 Argyropoulos, A., Doumas, K., Farmakis, A., Aristas, O., Kontogeorgos, G., Lykourinas, M. Characteristics of patients with stage T1b incidental prostate cancer. Scand J Urol Nephrol. 2005; 39: 289-93

163510 Arikan, N., Turkolmez, K., Budak, M., Gogus, O. Outcome of augmentation sigmoidocystoplasty in children with neurogenic bladder. Urol Int. 2000; 64: 82-5

155530 Arima, T., Enokida, H., Kubo, H., Kagara, I., Matsuda, R., Toki, K., Nishimura, H., Chiyomaru, T., Tatarano, S., Idesako, T., Nishiyama, K. and Nakagawa, M. Nuclear translocation of ADAM-10 contributes to the pathogenesis and progression of human prostate cancer. Cancer Sci. 2007; 98: 1720-6

108730 Arista-Nasr, J., Martinez-Benitez, B., Valdes, S., Hernandez, M., Bornstein-Quevedo, L. Pseudohyperplastic prostatic adenocarcinoma in transurethral resections of the prostate. Pathol Oncol Res. 2003; 9: 232-5

154010 Armitage, J. N., Cathcart, P. J., Rashidian, A., De Nigris, E., Emberton, M. and van der Meulen, J. H. Epithelializing stent for benign prostatic hyperplasia: a systematic review of the literature. J Urol. 2007; 177: 1619-24

101170 Armitage, J. N., Emberton, M. Dynamic variables: novel and perhaps better predictors of progression in benign prostatic hyperplasia. BJU Int. 2006 Mar; 97: 439-41

102770 Armitage, J. N., Rashidian, A., Cathcart, P. J., Emberton, M., van der Meulen, J. H. The thermo-expandable metallic stent for managing benign prostatic hyperplasia: a systematic review. BJU Int. 2006 Oct; 98: 806-10

128480 Armitage, J., Emberton, M. Is it time to reconsider the role of prostatic inflammation in the pathogenesis of lower urinary tract symptoms?. BJU Int. 2005 Oct; 96: 745-6

165750 Arndt, C., Morgenstern, B., Hawkins, D., Wilson, D., Liedtke, R., Miser, J. Renal function following combination chemotherapy with ifosfamide and cisplatin in patients with osteogenic sarcoma. Med Pediatr Oncol. 1999 Feb; 32: 93-6

165420 Arnello, F., Ham, H. R., Tondeur, M., Piepsz, A. Evolution of single kidney glomerular filtration rate in urinary tract infection. Pediatr Nephrol. 1999 Feb; 13: 121-4

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

165780 Arnello, F., Ham, H. R., Tondeur, M., Piepsz, A. Overall and single-kidney clearance in children with urinary tract infection and damaged kidneys. J Nucl Med. 1999 Jan; 40: 52-5

138660 Arnold, E. P. Tamsulosin in men with confirmed bladder outlet obstruction: a clinical and urodynamic analysis from a single centre in New Zealand. BJU Int. 2001 Jan; 87: 24-30

117260 Aron, M., Costello, A. J. Case report: holmium laser resection and lasertripsy for intravesical ureterocele with calculus. Lasers Surg Med. 2001; 29: 82-4

139900 Aron, M., Rajeev, T. P., Gupta, N. P. Antibiotic prophylaxis for transrectal needle biopsy of the prostate: a randomized controlled study. BJU Int. 2000 Apr; 85: 682-5

129680 Artibani, W., Cerruto, M. A. The role of imaging in urinary incontinence. BJU Int. 2005 Apr; 95: 699-703

135970 Arun, C. P. A queue paradigm formulation for the effect of large-volume alcohol intake on the lower urinary tract. Ann N Y Acad Sci. 2002 May; 957: 292-4

105480 Arvanitis, D. A., Lianos, E., Soulitzis, N., Delakas, D., Spandidos, D. A. Deregulation of p73 isoform equilibrium in benign prostate hyperplasia and prostate cancer. Oncol Rep. 2004 Nov; 12: 1131-7

137380 Arya, M., Mostafid, H., Patel, H. R., Kellett, M. J., Philp, T. The self-expanding metallic ureteric stent in the long-term management of benign ureteric strictures. BJU Int. 2001 Sep; 88: 339-42

157200 Aryal, M., Pandeya, A., Gautam, N., Baral, N., Lamsal, M., Majhi, S., Chandra, L., Pandit, R. and Das, B. K. Oxidative stress in benign prostate hyperplasia. Nepal Med Coll J. 2007; 9: 222-4

125870 Asberg, A., Midtvedt, K., Line, P. D., Narverud, J., Holdaas, H., Jenssen, T., Reisaeter, A. V., Johnsen, L. F., Fauchald, P., Hartmann, A. Calcineurin inhibitor avoidance with daclizumab, mycophenolate mofetil, and prednisolone in DR-matched de novo kidney transplant recipients. Transplantation. 2006 Jul 15; 82: 62-8

161290 Asci, R., Aybek, Z., Sarikaya, S., Buyukalpelli, R., Yilmaz, A. F. The management of vesical calculi with combined optical mechanical cystolithotripsy and transurethral prostatectomy: is it safe and effective?. BJU Int. 1999 Jul; 84: 32-6

137190 Ashkenazi, H., Rudensky, B., Paz, E., Raveh, D., Balkin, J. A., Tzivoni, D., Yinnon, A. M. Incidence of immunoglobulin G antibodies to Chlamydia pneumoniae in acute myocardial infarction patients. Isr Med Assoc J. 2001 Nov; 3: 818-21

101810 Aslan, G., Cavus, E., Karas, H., Oner, O., Duran, F., Esen, A. Association between lower urinary tract symptoms and erectile dysfunction. Arch Androl. 2006 May-Jun; 52: 155-62

100150 Aslan, G., Irer, B., Tuna, B., Yorukoglu, K., Saatcioglu, F., Celebi, I. Analysis of NKX3.1 expression in prostate cancer tissues and correlation with clinicopathologic features. Pathol Res Pract. 2006; 202: 93-8

113540 Asplund, R. Development of transurethral resections of the prostate in relation to nocturia in northern Sweden 1992-1997. Can J Urol. 2002 Aug; 9: 1588-91

108600 Assinder, S. J., Nicholson, H. D. Effects of steroids on oxytocin secretion by the human prostate in vitro. Int J Androl. 2004 Feb; 27: 8-Dec

128810 Ataei, N., Madani, A., Habibi, R., Khorasani, M. Evaluation of acute pyelonephritis with DMSA scans in children presenting after the age of 5 years. Pediatr Nephrol. 2005 Oct; 20: 1439-44

140370 Athanasopoulos, A., Gyftopoulos, K., Giannitsas, K., Fisfis, J., Perimenis, P., Barbalias, G. Combination treatment with an alpha-blocker plus an anticholinergic for bladder outlet obstruction: a prospective, randomized, controlled study. J Urol. 2003 Jun; 169: 2253-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

128010 Athanasopoulos, A., Perimenis, P. Efficacy of the combination of an alpha1-blocker with an anticholinergic agent in the treatment of lower urinary tract symptoms associated with bladder outlet obstruction. Expert Opin Pharmacother. 2005 Nov; 6: 2429-33

105110 Atik, E., Unsal, I. Basal cell adenoma of prostate. Urol Res. 2004 Dec; 32: 421-2

105300 Auerbach, S. M., Gittelman, M., Mazzu, A., Cihon, F., Sundaresan, P., White, W. B. Simultaneous administration of vardenafil and tamsulosin does not induce clinically significant hypotension in patients with benign prostatic hyperplasia. Urology. 2004 Nov; 64: 998-1003; discussion 1003-4

154770 Autorino, R., De Sio, M. and D'Armiento, M. Bipolar plasmakinetic technology for the treatment of symptomatic benign prostatic hyperplasia: evidence beyond marketing hype?. BJU Int. 2007; 100: 983-5

104560 Averna, T. A., Kline, E. E., Smith, A. Y., Sillerud, L. O. A decrease in 1H nuclear magnetic resonance spectroscopically determined citrate in human seminal fluid accompanies the development of prostate adenocarcinoma. J Urol. 2005 Feb; 173: 433-8

123330 Avins, A. L., Bent, S. Saw palmetto and lower urinary tract symptoms: what is the latest evidence?. Curr Urol Rep. 2006 Jul; 7: 260-5

130740 Avritscher, R., Madoff, D. C., Ramirez, P. T., Wallace, M. J., Ahrar, K., Morello, F. A. , Jr., Gupta, S., Murthy, R., Wright, K. C., Hicks, M. E. Fistulas of the lower urinary tract: percutaneous approaches for the management of a difficult clinical entity. Radiographics. 2004 Oct; 24 Suppl 1: S217-36

119500 Axelrod, D. E. A monthly period of symptoms associated with benign prostatic hyperplasia. Urology. 2000 Mar; 55: 436

114780 Aydin, O., Dusmez, D., Cinel, L., Doruk, E., Kanik, A. Immunohistological analysis of mast cell numbers in the intratumoral and peritumoral regions of prostate carcinoma compared to benign prostatic hyperplasia. Pathol Res Pract. 2002; 198: 267-71

164540 Aygen, E. M., Ekmekcioglu, O., Basbug, M. The menopause and bladder weight. Int Urogynecol J Pelvic Floor Dysfunct. 1999; 10: 316-20

123900 Azam, U. Late-stage clinical development in lower urogenital targets: sexual dysfunction. Br J Pharmacol. 2006 Feb; 147 Suppl 2: S153-9

138020 Azam, U., Castleden, M., Turner, D. Economics of lower urinary tract symptoms (LUTS) in older people. Drugs Aging. 2001; 18: 213-23

108800 Azuma, H., Inamoto, T., Sakamoto, T., Kiyama, S., Ubai, T., Shinohara, Y., Maemura, K., Tsuji, M., Segawa, N., Masuda, H., Takahara, K., Katsuoka, Y., Watanabe, M. Gamma-aminobutyric acid as a promoting factor of cancer metastasis; induction of matrix metalloproteinase production is potentially its underlying mechanism. Cancer Res. 2003 Dec 1; 63: 8090-6

113430 Azzouzi, A. R., Cochand-Priollet, B., Mangin, P., Fournier, G., Berthon, P., Latil, A., Cussenot, O. Impact of constitutional genetic variation in androgen/oestrogen-regulating genes on age-related changes in human prostate. Eur J Endocrinol. 2002 Oct; 147: 479-84

153290 Baard, J., de Reijke, T. M. and de la Rosette, J. J. The use of the Acucise technique for ureteropelvic junction obstruction: a trade-off between efficacy and invasiveness?. Curr Urol Rep. 2007; 8: 134-9

109870 Babinski, M. A., Chagas, M. A., Costa, W. S., Sampaio, F. J. Prostatic epithelial and luminal area in the transition zone acini: morphometric analysis in normal and hyperplastic human prostate. BJU Int. 2003 Oct; 92: 592-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

109640 Babjuk, M., Soukup, V., Mares, J., Duskova, J., Sedlacek, Z., Trkova, M., Pecen, L., Dvoracek, J., Hanus, T., Kocvara, R., Novak, J., Povysil, C. The expression of PAX5, p53 immunohistochemistry and p53 mutation analysis in superficial bladder carcinoma tissue. Correlation with pathological findings and clinical outcome. Int Urol Nephrol. 2002-2003; 34: 495-501

154490 Bach, T., Herrmann, T. R., Ganzer, R., Burchardt, M. and Gross, A. J. RevoLix vaporesection of the prostate: initial results of 54 patients with a 1-year follow-up. World J Urol. 2007; 25: 257-62

137340 Bachelard, M., Verkauskas, G., Bertilsson, M., Sillen, U. J., Jacobsson, B. Recognition of bladder instability on voiding cystourethrography in infants with urinary tract infection. J Urol. 2001 Nov; 166: 1899-903

102960 Bachmann, A., Ruszat, R., Wyler, S., Reich, O., Seifert, H. H., Muller, A., Sulser, T. Photoselective vaporization of the prostate: the basel experience after 108 procedures. Eur Urol. 2005 Jun; 47: 798-804

101540 Bachmann, A., Schurch, L., Ruszat, R., Wyler, S. F., Seifert, H. H., Muller, A., Lehmann, K., Sulser, T. Photoselective vaporization (PVP) versus transurethral resection of the prostate (TURP): a prospective bi-centre study of perioperative morbidity and early functional outcome. Eur Urol. 2005 Dec; 48: 965-71; discussion 972

125370 Bachou, H., Tylleskar, T., Downing, R., Tumwine, J. K. Severe malnutrition with and without HIV-1 infection in hospitalised children in Kampala, Uganda: differences in clinical features, haematological findings and CD4+ cell counts. Nutr J. 2006; 5: 27

119440 Badia, X., Rodriguez, F., Carballido, J., Garcia Losa, M., Unda, M., Dal-Re, R., Roset, M. Influence of sociodemographic and health status variables on the American Urological Association symptom scores in patients with lower urinary tract symptoms. Urology. 2001 Jan; 57: 71-7

136210 Bagga, A. Urinary tract infections: evaluation and treatment. Indian J Pediatr. 2001 Jul; 68 Suppl 3: S40-5

155360 Bagshaw, S. M., Uchino, S., Bellomo, R., Morimatsu, H., Morgera, S., Schetz, M., Tan, I., Bouman, C., Macedo, E., Gibney, N., Tolwani, A., Oudemans-van Straaten, H. M., Ronco, C. and Kellum, J. A. Septic acute kidney injury in critically ill patients: clinical characteristics and outcomes. Clin J Am Soc Nephrol. 2007; 2: 431-9

100940 Bailey, A., Martin, M. L., Girman, C., McNaughton-Collins, M., Barry, M. J. Development of a multiregional United States Spanish version of the international prostate symptom score and the benign prostatic hyperplasia impact index. J Urol. 2005 Nov; 174: 1896-901; discussion 1901

120420 Bairati, I., Larouche, R., Meyer, F., Moore, L., Fradet, Y. Lifetime occupational physical activity and incidental prostate cancer (Canada). Cancer Causes Control. 2000 Sep; 11: 759-64

131620 Baird, A. D., Sanders, C., Woolfenden, A., Gearhart, J. P. Coping with bladder exstrophy: diverse results from early attempts at functional urinary tract surgery. BJU Int. 2004 Jun; 93: 1303-8

130710 Baker, S. D., Horger, D. C., Keane, T. E. Community-acquired methicillin-resistant Staphylococcus aureus prostatic abscess. Urology. 2004 Oct; 64: 808-10

135520 Bakker, E., Van Gool, J. D., Van Sprundel, M., Van Der Auwera, C., Wyndaele, J. J. Results of a questionnaire evaluating the effects of different methods of toilet training on achieving bladder control. BJU Int. 2002 Sep; 90: 456-61

134790 Bakker, E., van Sprundel, M., van der Auwera, J. C., van Gool, J. D., Wyndaele, J. J. Voiding habits and wetting in a population of 4,332 Belgian schoolchildren aged between 10 and 14 years. Scand J Urol Nephrol. 2002; 36: 354-62

140320 Baldwin, K. C., Ginsberg, P. C., Harkaway, R. C. Discontinuation of alpha-blockade after initial treatment with finasteride and doxazosin for bladder outlet obstruction. Urol Int. 2001; 66: 84-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

117350 Baldwin, K. C., Ginsberg, P. C., Roehrborn, C. G., Harkaway, R. C. Discontinuation of alpha-blockade after initial treatment with finasteride and doxazosin in men with lower urinary tract symptoms and clinical evidence of benign prostatic hyperplasia. Urology. 2001 Aug; 58: 203-9

120930 Bales, G. T., Flynn, T. J., Kynaston, H. G., Golash, A., Hart, A., Kim, H. L., Gerber, G. S. Role of transurethral biopsy sampling of the prostate to diagnose prostate cancer in men undergoing surgical intervention for benign prostatic hyperplasia. Tech Urol. 2000 Sep; 6: 201-4

137850 Balkan, E., Kilic, N., Avsar, I., Boyaci, S., Aksoy, K., Dogruyol, H. Urodynamic findings in the tethered spinal cord: the effect of tethered cord division on lower urinary tract functions. Eur J Pediatr Surg. 2001 Apr; 11: 116-9

117580 Baltaci, S., Orhan, D., Gogus, C., Turkolmez, K., Tulunay, O., Gogus, O. Inducible nitric oxide synthase expression in benign prostatic hyperplasia, low- and high-grade prostatic intraepithelial neoplasia and prostatic carcinoma. BJU Int. 2001 Jul; 88: 100-3

122960 Baltaci, S., Orhan, D., Ozer, G., Tolunay, O., Gogous, O. Bcl-2 proto-oncogene expression in low- and high-grade prostatic intraepithelial neoplasia. BJU Int. 2000 Jan; 85: 155-9

121670 Baltaci, S., Yagci, C., Aksoy, H., Elan, A. H., Gogus, O. Determination of transition zone volume by transrectal ultrasound in patients with clinically benign prostatic hyperplasia: agreement with enucleated prostate adenoma weight. J Urol. 2000 Jul; 164: 72-5

121560 Baniel, J., Israilov, S., Shmueli, J., Segenreich, E., Livne, P. M. Sexual function in 131 patients with benign prostatic hyperplasia before prostatectomy. Eur Urol. 2000 Jul; 38: 53-8

163730 Bankhead, R. W., Kropp, B. P., Cheng, E. Y. Evaluation and treatment of children with neurogenic bladders. J Child Neurol. 2000 Mar; 15: 141-9

160370 Banner, M. P. Imaging of benign prostatic hyperplasia. Semin Roentgenol. 1999 Oct; 34: 313-24

122350 Bansal, A., Murray, D. K., Wu, J. T., Stephenson, R. A., Middleton, R. G., Meikle, A. W. Heritability of prostate-specific antigen and relationship with zonal prostate volumes in aging twins. J Clin Endocrinol Metab. 2000 Mar; 85: 1272-6

163580 Bapat, S., Bapat, M., Kirpekar, D. Endoureterotomy for congenital primary obstructive megaureter: preliminary report. J Endourol. 2000 Apr; 14: 263-7

157170 Barai, S., Gambhir, S., Prasad, N., Sharma, R. K., Ora, M., Kumar, A., Gupta, A., Parasar, D. S. and Suneetha, B. Levels of GFR and protein-induced hyperfiltration in kidney donors: a single-center experience in India. Am J Kidney Dis. 2008; 51: 407-14

154680 Barba, G., Galletti, F., Cappuccio, F. P., Siani, A., Venezia, A., Versiero, M., Della Valle, E., Sorrentino, P., Tarantino, G., Farinaro, E. and Strazzullo, P. Incidence of hypertension in individuals with different blood pressure salt-sensitivity: results of a 15-year follow-up study. J Hypertens. 2007; 25: 1465-71

131880 Barber, N. J., Muir, G. H. High-power KTP laser prostatectomy: the new challenge to transurethral resection of the prostate. Curr Opin Urol. 2004 Jan; 14: 21-5

101690 Barber, N. J., Roodhouse, A. J., Rathenborg, P., Nordling, J., Ellis, B. W. Ease of removal of thermo-expandable prostate stents. BJU Int. 2005 Sep; 96: 578-80

105630 Barclay, W. W., Woodruff, R. D., Hall, M. C., Cramer, S. D. A system for studying epithelial-stromal interactions reveals distinct inductive abilities of stromal cells from benign prostatic hyperplasia and prostate cancer. Endocrinology. 2005 Jan; 146: 13-8

103250 Barendrecht, M. M., Koopmans, R. P., de la Rosette, J. J., Michel, M. C. Treatment of lower urinary tract symptoms suggestive of benign prostatic hyperplasia: the cardiovascular system. BJU Int. 2005 Jun; 95 Suppl 4: 19-28

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

140330 Barkin, J., Guimaraes, M., Jacobi, G., Pushkar, D., Taylor, S., van Vierssen Trip, O. B. Alpha-blocker therapy can be withdrawn in the majority of men following initial combination therapy with the dual 5alpha-reductase inhibitor dutasteride. Eur Urol. 2003 Oct; 44: 461-6

150570 Barmoshe, S. and Zlotta, A. R. How do I treat and follow my TUNA patients. World J Urol. 2006; 24: 397-404

116020 Barone, D., Peroglio, F., Toso, E., Bruzzese, T. Binding of mepartricin to sex hormones, a key factor of its activity on benign prostatic hyperplasia. Arzneimittelforschung. 2001; 51: 984-90

155170 Barqawi, A. B., Myers, J. B., O'Donnell, C. and Crawford, E. D. The effect of alpha-blocker and 5alpha-reductase inhibitor intake on sexual health in men with lower urinary tract symptoms. BJU Int. 2007; 100: 853-7

132300 Barqawi, A., Gamito, E., O'Donnell, C., Crawford, E. D. Herbal and vitamin supplement use in a prostate cancer screening population. Urology. 2004 Feb; 63: 288-92

103100 Barqawi, A., O'Donnell, C., Kumar, R., Koul, H., Crawford, E. D. Correlation between LUTS (AUA-SS) and erectile dysfunction (SHIM) in an age-matched racially diverse male population: data from the Prostate Cancer Awareness Week (PCAW). Int J Impot Res. 2005 Jul-Aug; 17: 370-4

152560 Barraclough, K., Menahem, S. A., Bailey, M. and Thomson, N. M. Predictors of decline in renal function after lung transplantation. J Heart Lung Transplant. 2006; 25: 1431-5

164620 Barras, M., Coste, A., Eon, M. T., Guillot, E. Pharmacological characterization of muscarinic receptors implicated in rabbit detrusor muscle contraction and activation of inositol phospholipid hydrolysis in rabbit detrusor and parotid gland. Fundam Clin Pharmacol. 1999; 13: 562-70

128690 Barrett, J., Hamilton, W. Pathways to the diagnosis of prostate cancer in a British city. A population-based study. Scand J Urol Nephrol. 2005; 39: 267-70

164860 Barrieras, D., Lapointe, S., Reddy, P. P., Williot, P., McLorie, G. A., Bagli, D., Khoury, A. E., Merguerian, P. A. Urinary retention after bilateral extravesical ureteral reimplantation: does dissection distal to the ureteral orifice have a role?. J Urol. 1999 Sep; 162: 1197-200

133880 Barrington, S. F., O'Doherty, M. J. Limitations of PET for imaging lymphoma. Eur J Nucl Med Mol Imaging. 2003 Jun; 30 Suppl 1: S117-27

126850 Barroso, U. , Jr., Dultra, A., De Bessa, J. , Jr., Barros, D. G., Maron, F., Barroso, D. V., Moreira, E. D. , Jr. Comparative analysis of the frequency of lower urinary tract dysfunction among institutionalised and non-institutionalised children. BJU Int. 2006 Apr; 97: 813-5

126950 Barroso, U. , Jr., Nova, T., Dultra, A., Lordelo, P., Andrade, J., Vinhaes, A. J. Comparative analysis of the symptomatology of children with lower urinary tract dysfunction in relation to objective data. Int Braz J Urol. 2006 Jan-Feb; 32: 70-6

130120 Barroso, U. , Jr., Vinhaes, A. J., Barros, M., Barroso, V. A., Calado, A. A., Zerati Filho, M. Findings in cystourethrography that suggest lower urinary tract dysfunction in children with vesicoureteral reflux. Int Braz J Urol. 2004 Nov-Dec; 30: 504-7

121360 Barrow, J. C., Nantermet, P. G., Selnick, H. G., Glass, K. L., Rittle, K. E., Gilbert, K. F., Steele, T. G., Homnick, C. F., Freidinger, R. M., Ransom, R. W., Kling, P., Reiss, D., Broten, T. P., Schorn, T. W., Chang, R. S., O'Malley, S. S. In vitro and in vivo evaluation of dihydropyrimidinone C-5 amides as potent and selective alpha(1A) receptor antagonists for the treatment of benign prostatic hyperplasia. J Med Chem. 2000 Jul 13; 43: 2703-18

116440 Barry, M. J. Evaluation of symptoms and quality of life in men with benign prostatic hyperplasia. Urology. 2001 Dec; 58: 25-32; discussion 32

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

155690 Barry, M. J., Link, C. L., McNaughton-Collins, M. F. and McKinlay, J. B. Overlap of different urological symptom complexes in a racially and ethnically diverse, community-based population of men and women. BJU Int. 2008; 101: 45-51

116810 Barry, M. J., Roehrborn, C. G. Benign prostatic hyperplasia. BMJ. 2001 Nov 3; 323: 1042-6

120650 Barry, M. J., Williford, W. O., Fowler, F. J. , Jr., Jones, K. M., Lepor, H. Filling and voiding symptoms in the American Urological Association symptom index: the value of their distinction in a Veterans Affairs randomized trial of medical therapy in men with a clinical diagnosis of benign prostatic hyperplasia. J Urol. 2000 Nov; 164: 1559-64

113610 Barry, M., Roehrborn, C. Benign prostatic hyperplasia. Clin Evid. 2002 Jun; : 775-87

112010 Barry, M., Roehrborn, C., Webber, R. Benign prostatic hyperplasia. Clin Evid. 2002 Dec; : 849-63

134500 Barsoum, R. S. Schistosomiasis and the kidney. Semin Nephrol. 2003 Jan; 23: 34-41

108070 Bartsch, G., Fitzpatrick, J. M., Schalken, J. A., Isaacs, J., Nordling, J., Roehrborn, C. G. Consensus statement: the role of prostate-specific antigen in managing the patient with benign prostatic hyperplasia. BJU Int. 2004 Mar; 93 Suppl 1: 27-9

122070 Bartsch, G., Rittmaster, R. S., Klocker, H. Dihydrotestosterone and the concept of 5alpha-reductase inhibition in human benign prostatic hyperplasia. Eur Urol. 2000 Apr; 37: 367-80

114870 Bartsch, G., Rittmaster, R. S., Klocker, H. Dihydrotestosterone and the concept of 5alpha-reductase inhibition in human benign prostatic hyperplasia. World J Urol. 2002 Apr; 19: 413-25

135050 Bartsch, L., Sarwal, M., Orlandi, P., Yorgin, P. D., Salvatierra, O. , Jr. Limited surgical interventions in children with posterior urethral valves can lead to better outcomes following renal transplantation. Pediatr Transplant. 2002 Oct; 6: 400-5

139510 Barzilai, M., Cohen, I., Stein, A. Sonographic detection of a foreign body in the urethra and urinary bladder. Urol Int. 2000; 64: 178-80

135260 Basar, M. M., Atan, A., Ozergin, O., Yildiz, M. The efficacy of alfuzosin treatment in patients with prostatism. Int Urol Nephrol. 2001; 33: 493-7

124050 Basar, M. M., Yilmaz, E., Ferhat, M., Basar, H., Batislam, E. Terazosin in the treatment of premature ejaculation: a short-term follow-up. Int Urol Nephrol. 2005; 37: 773-7

132920 Basinski, C., Fuller, E., Brizendine, E. J., Benson, J. T. Bladder-anal reflex. Neurourol Urodyn. 2003; 22: 683-6

113970 Basketter, V. Benign prostate disease. Nurs Times. 2002 Jul 9-15; 98: 53-4

121950 Basso, D., Fogar, P., Piva, M. G., Navaglia, F., Mazza, S., Prayer-Galetti, T., Castellucci, E., Pagano, F., Plebani, M. Total PSA, free PSA/total PSA ratio, and molecular PSA detection in prostate cancer: which is clinically effective and when?. Urology. 2000 May; 55: 710-5

104510 Bastian, P. J., Ellinger, J., Schmidt, D., Wernert, N., Wellmann, A., Muller, S. C., von Rucker, A. GSTP1 hypermethylation as a molecular marker in the diagnosis of prostatic cancer: is there a correlation with clinical stage, Gleason grade, PSA value or age?. Eur J Med Res. 2004 Nov 29; 9: 523-7

102930 Bastian, P. J., Ellinger, J., Wellmann, A., Wernert, N., Heukamp, L. C., Muller, S. C., von Ruecker, A. Diagnostic and prognostic information in prostate cancer with the help of a small set of hypermethylated gene loci. Clin Cancer Res. 2005 Jun 1; 11: 4097-106

161710 Baston, E., Hartmann, R. W. N-substituted 4-(5-indolyl)benzoic acids. Synthesis and evaluation of steroid 5alpha-reductase type I and II inhibitory activity. Bioorg Med Chem Lett. 1999 Jun 7; 9: 1601-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111480 Baston, E., Salem, O. I., Hartmann, R. W. 6-Substituted 3,4-dihydro-naphthalene-2-carboxylic acids: synthesis and structure-activity studies in a novel class of human 5alpha reductase inhibitors. J Enzyme Inhib Med Chem. 2002 Oct; 17: 303-20

111640 Baston, E., Salem, O. I., Hartmann, R. W. Cyclohex-1-ene carboxylic acids: synthesis and biological evaluation of novel inhibitors of human 5 alpha reductase. Arch Pharm (Weinheim). 2003 Mar; 336: 31-8

110610 Basu, P. S., Majhi, R., Batabyal, S. K. Lectin and serum-PSA interaction as a screening test for prostate cancer. Clin Biochem. 2003 Jul; 36: 373-6

150800 Bataineh, Z. M. and Habbal, O. Immunoreactivity of ubiquitin in human prostate gland. Neuro Endocrinol Lett. 2006; 27: 517-22

115420 Bataineh, Z. M., Bani Hani, I. H., Al-Alami, J. R. Zinc in normal and pathological human prostate gland. Saudi Med J. 2002 Feb; 23: 218-20

109030 Bataineh, Z. M., Nusier, M. K. Metallothionein expression in human prostate gland. Saudi Med J. 2003 Nov; 24: 1246-9

133090 Bates, T. S., Sugiono, M., James, E. D., Stott, M. A., Pocock, R. D. Is the conservative management of chronic retention in men ever justified?. BJU Int. 2003 Oct; 92: 581-3

136240 Batista, J. E., Palacio, A., Torrubia, R., Hernandez, C., Vicente, J., Resel, L. Tamsulosin: effect on quality of life in 2740 patients with lower urinary tract symptoms managed in real-life practice in Spain. Arch Esp Urol. 2002 Jan-Feb; 55: 97-105

116630 Batista-Miranda, J. E., Diez, M. D., Bertran, P. A., Villavicencio, H. Quality-of-life assessment in patients with benign prostatic hyperplasia: effects of various interventions. Pharmacoeconomics. 2001; 19: 1079-90

153370 Batista-Miranda, J. E., Molinuevo, B. and Pardo, Y. Impact of lower urinary tract symptoms on quality of life using Functional Assessment Cancer Therapy scale. Urology. 2007; 69: 285-8

133600 Batista-Miranda, J. E., Sevilla-Cecilia, C., Torrubia, R., Musquera, M., Huguet-Perez, J., Ponce de Leon, X., Rosales Bordes, A., Salvador Bayarri, J., Villavicencio Mavrich, H. Quality of life in prostate cancer patients and controls: psychometric validation of the FACTP-4 in Spanish, and relation to urinary symptoms. Arch Esp Urol. 2003 May; 56: 447-54

112800 Batstone, G. R., Doble, A. Chronic prostatitis. Curr Opin Urol. 2003 Jan; 13: 23-9

139050 Battafarano, R. J., Anderson, R. C., Meyers, B. F., Guthrie, T. J., Schuller, D., Cooper, J. D., Patterson, G. A. Perioperative complications after living donor lobectomy. J Thorac Cardiovasc Surg. 2000 Nov; 120: 909-15

165000 Battaglia, C., Salvatori, M., Giulini, S., Primavera, M. R., Gallinelli, A., Volpe, A. Hormonal replacement therapy and urinary problems as evaluated by ultrasound and color Doppler. Ultrasound Obstet Gynecol. 1999 Jun; 13: 420-4

151230 Bauman, D. R., Steckelbroeck, S., Peehl, D. M. and Penning, T. M. Transcript profiling of the androgen signal in normal prostate, benign prostatic hyperplasia, and prostate cancer. Endocrinology. 2006; 147: 5806-16

101770 Baumert, H., Ballaro, A., Dugardin, F., Kaisary, A. V. Laparoscopic versus open simple prostatectomy: a comparative study. J Urol. 2006 May; 175: 1691-4

111420 Bautista, O. M., Kusek, J. W., Nyberg, L. M., McConnell, J. D., Bain, R. P., Miller, G., Crawford, E. D., Kaplan, S. A., Sihelnik, S. A., Brawer, M. K., Lepor, H. Study design of the Medical Therapy of Prostatic Symptoms (MTOPS) trial. Control Clin Trials. 2003 Apr; 24: 224-43

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

106950 Bawa, A. S., Batra, R. K., Singh, R. Management of inguinal hernia with benign prostatic hyperplasia: simultaneous inguinal hernioplasty with transurethral resection of prostate. Int Urol Nephrol. 2003; 35: 503-6

139940 Baxter, K., Coast, J., Donovan, J. A guide to undertaking economic evaluations within randomized controlled trials of treatments for lower urinary tract symptoms. BJU Int. 2000 Mar; 85 Suppl 1: 36-41

129300 Bay, A., Oner, A. F., Etlik, O., Yilmaz, C., Caksen, H. Myelopathy due to intrathecal chemotherapy: report of six cases. J Pediatr Hematol Oncol. 2005 May; 27: 270-2

161450 Bayne, C. W., Donnelly, F., Ross, M., Habib, F. K. Serenoa repens (Permixon): a 5alpha-reductase types I and II inhibitor-new evidence in a coculture model of BPH. Prostate. 1999 Sep 1; 40: 232-41

140410 Bayne, C. W., Ross, M., Donnelly, F., Habib, F. K. The selectivity and specificity of the actions of the lipido-sterolic extract of Serenoa repens (Permixon) on the prostate. J Urol. 2000 Sep; 164: 876-81

113040 Beach, R., Gown, A. M., De Peralta-Venturina, M. N., Folpe, A. L., Yaziji, H., Salles, P. G., Grignon, D. J., Fanger, G. R., Amin, M. B. P504S immunohistochemical detection in 405 prostatic specimens including 376 18-gauge needle biopsies. Am J Surg Pathol. 2002 Dec; 26: 1588-96

138820 Beales, P. L., Reid, H. A., Griffiths, M. H., Maher, E. R., Flinter, F. A., Woolf, A. S. Renal cancer and malformations in relatives of patients with Bardet-Biedl syndrome. Nephrol Dial Transplant. 2000 Dec; 15: 1977-85

108270 Beck, F. W., Prasad, A. S., Butler, C. E., Sakr, W. A., Kucuk, O., Sarkar, F. H. Differential expression of hZnT-4 in human prostate tissues. Prostate. 2004 Mar 1; 58: 374-81

116650 Becker, C., Noldus, J., Diamandis, E., Lilja, H. The role of molecular forms of prostate-specific antigen (PSA or hK3) and of human glandular kallikrein 2 (hK2) in the diagnosis and monitoring of prostate cancer and in extra-prostatic disease. Crit Rev Clin Lab Sci. 2001 Oct; 38: 357-99

122980 Becker, C., Piironen, T., Pettersson, K., Bjork, T., Wojno, K. J., Oesterling, J. E., Lilja, H. Discrimination of men with prostate cancer from those with benign disease by measurements of human glandular kallikrein 2 (HK2) in serum. J Urol. 2000 Jan; 163: 311-6

160290 Beckett, M. L., Cazares, L. H., Vlahou, A., Schellhammer, P. F., Wright, G. L., Jr Prostate-specific membrane antigen levels in sera from healthy men and patients with benign prostate hyperplasia or prostate cancer. Clin Cancer Res. 1999 Dec; 5: 4034-40

100980 Beckman, T. J., Mynderse, L. A. Evaluation and medical management of benign prostatic hyperplasia. Mayo Clin Proc. 2005 Oct; 80: 1356-62

154160 Bedalov, G., Bartolin, Z., Puskar, D., Savic, I., Bedalov, I., Rudolf, M. and Batinic, D. Differences in stress response between patients undergoing transurethral resection versus endoscopic laser ablation of the prostate for benign prostatic hyperplasia. Lasers Med Sci. 2008; 23: 65-70

154310 Beganovic, A., Klijn, A. J., Dik, P. and De Jong, T. P. Ectopic ureterocele: long-term results of open surgical therapy in 54 patients. J Urol. 2007; 178: 251-4

100240 Begley, L., Monteleon, C., Shah, R. B., Macdonald, J. W., Macoska, J. A. CXCL12 overexpression and secretion by aging fibroblasts enhance human prostate epithelial proliferation in vitro. Aging Cell. 2005 Dec; 4: 291-8

121210 Beilin, J., Ball, E. M., Favaloro, J. M., Zajac, J. D. Effect of the androgen receptor CAG repeat polymorphism on transcriptional activity: specificity in prostate and non-prostate cell lines. J Mol Endocrinol. 2000 Aug; 25: 85-96

108870 Bektic, J., Wrulich, O. A., Dobler, G., Kofler, K., Ueberall, F., Culig, Z., Bartsch, G., Klocker, H. Identification of genes involved in estrogenic action in the human prostate using microarray analysis. Genomics. 2004 Jan; 83: 34-44

130920 Belal, M., Abrams, P. FAQs: lower urinary tract symptoms in men. Practitioner. 2004 Sep; 248: 652, 654, 656 passim

104260 Belandia, B., Powell, S. M., Garcia-Pedrero, J. M., Walker, M. M., Bevan, C. L., Parker, M. G. Hey1, a mediator of notch signaling, is an androgen receptor corepressor. Mol Cell Biol. 2005 Feb; 25: 1425-36

133010 Belenky, A., Abarbanel, Y., Cohen, M., Yossepowitch, O., Livne, P. M., Bachar, G. N. Detrusor resistive index evaluated by Doppler ultrasonography as a potential indicator of bladder outlet obstruction. Urology. 2003 Oct; 62: 647-50

131940 Belet, N., Islek, I., Belet, U., Sunter, A. T., Kucukoduk, S. Comparison of trimethoprim-sulfamethoxazole, cephadroxil and cefprozil as prophylaxis for recurrent urinary tract infections in children. J Chemother. 2004 Feb; 16: 77-81

104990 Bellorofonte, C., Vedruccio, C., Tombolini, P., Ruoppolo, M., Tubaro, A. Non-invasive detection of prostate cancer by electromagnetic interaction. Eur Urol. 2005 Jan; 47: 29-37; discussion 37

153100 Belyaeva, O. V., Chetyrkin, S. V., Clark, A. L., Kostereva, N. V., SantaCruz, K. S., Chronwall, B. M. and Kedishvili, N. Y. Role of microsomal retinol/sterol dehydrogenase-like short-chain dehydrogenases/reductases in the oxidation and epimerization of 3alpha-hydroxysteroids in human tissues. Endocrinology. 2007; 148: 2148-56

165020 Bemelmans, B. L., Mundy, A. R., Craggs, M. D. Neuromodulation by implant for treating lower urinary tract symptoms and dysfunction. Eur Urol. 1999 Aug; 36: 81-91

106520 Benaim, E. A., Karam, J. A., Soboorian, M. H., Roehrborn, C. G., McConnell, J. D., Lin, V. The effect of combined androgen ablation on the expression of alpha1A-adrenergic receptor in the human prostate. Prostate. 2004 Sep 1; 60: 310-6

164350 Benck, U., Clorius, J. H., Zuna, I., Ritz, E. Renal hemodynamic changes during smoking: effects of adrenoreceptor blockade. Eur J Clin Invest. 1999 Dec; 29: 1010-8

150990 Benecchi, L. Optimum PSA reflex-range. Arch Ital Urol Androl. 2006; 78: 44-8

118400 Benedit, P., Paciucci, R., Thomson, T. M., Valeri, M., Nadal, M., Caceres, C., de Torres, I., Estivill, X., Lozano, J. J., Morote, J., Reventos, J. PTOV1, a novel protein overexpressed in prostate cancer containing a new class of protein homology blocks. Oncogene. 2001 Mar 22; 20: 1455-64

156430 Beneduce, L., Prayer-Galetti, T., Giustinian, A. M., Gallotta, A., Betto, G., Pagano, F. and Fassina, G. Detection of prostate-specific antigen coupled to immunoglobulin M in prostate cancer patients. Cancer Detect Prev. 2007; 31: 402-7

165660 Benfield, M. R., Herrin, J., Feld, L., Rose, S., Stablein, D., Tejani, A. Safety of kidney biopsy in pediatric transplantation: a report of the Controlled Clinical Trials in Pediatric Transplantation Trial of Induction Therapy Study Group. Transplantation. 1999 Feb 27; 67: 544-7

115990 Benning, C. M., Kyprianou, N. Quinazoline-derived alpha1-adrenoceptor antagonists induce prostate cancer cell apoptosis via an alpha1-adrenoceptor-independent action. Cancer Res. 2002 Jan 15; 62: 597-602

100670 Bent, S., Kane, C., Shinohara, K., Neuhaus, J., Hudes, E. S., Goldberg, H., Avins, A. L. Saw palmetto for benign prostatic hyperplasia. N Engl J Med. 2006 Feb 9; 354: 557-66

100590 Bent, S., Padula, A., Avins, A. L. Brief communication: Better ways to question patients about adverse medical events: a randomized, controlled trial. Ann Intern Med. 2006 Feb 21; 144: 257-61

163720 Bentel, G. C., Munley, M. T., Marks, L. B., Anscher, M. S. The effect of pressure from the table top and patient position on pelvic organ location in patients with prostate cancer. Int J Radiat Oncol Biol Phys. 2000 Apr 1; 47: 247-53

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

160130 Bercovich, E., Barabino, G., Pirozzi-Farina, F., Deriu, M. A multivariate analysis of lower urinary tract ageing and urinary symptoms: the role of fibrosis. Arch Ital Urol Androl. 1999 Dec; 71: 287-92

165110 Bercowsky, E., Shalhav, A. L., Elbahnasy, A. M., Owens, E., Clayman, R. V. The effect of patient position on intrarenal anatomy. J Endourol. 1999 May; 13: 257-60

152970 Bereczky, Z., Bolus, M., Chetty, P., du Toit, W., Enslin, J., Haffejee, M., Heyns, C., Hyams, D., Kirstein, D., Mackenzie, M., Mamine, A., Mutambirwa, S., Niemand, B., Opperman, C., Pontin, A., Reif, S., Sauer, F., Segone, A., Smart, D., Steenkamp, P., St Management of benign prostatic hyperplasia - South African Urological Association Guideline. S Afr Med J. 2006; 96: 1275-9

150640 Berger, A. P., Bartsch, G., Deibl, M., Alber, H., Pachinger, O., Fritsche, G., Rantner, B., Fraedrich, G., Pallwein, L., Aigner, F., Horninger, W. and Frauscher, F. Atherosclerosis as a risk factor for benign prostatic hyperplasia. BJU Int. 2006; 98: 1038-42

103870 Berger, A. P., Deibl, M., Halpern, E. J., Lechleitner, M., Bektic, J., Horninger, W., Fritsche, G., Steiner, H., Pelzer, A., Bartsch, G., Frauscher, F. Vascular damage induced by type 2 diabetes mellitus as a risk factor for benign prostatic hyperplasia. Diabetologia. 2005 Apr; 48: 784-9

100740 Berger, A. P., Deibl, M., Leonhartsberger, N., Bektic, J., Horninger, W., Fritsche, G., Steiner, H., Pelzer, A. E., Bartsch, G., Frauscher, F. Vascular damage as a risk factor for benign prostatic hyperplasia and erectile dysfunction. BJU Int. 2005 Nov; 96: 1073-8

104020 Berger, A. P., Deibl, M., Steiner, H., Bektic, J., Pelzer, A., Spranger, R., Klocker, H., Bartsch, G., Horninger, W. Longitudinal PSA changes in men with and without prostate cancer: assessment of prostate cancer risk. Prostate. 2005 Aug 1; 64: 240-5

102510 Berger, A. P., Horninger, W., Bektic, J., Pelzer, A., Spranger, R., Bartsch, G., Frauscher, F. Vascular resistance in the prostate evaluated by colour Doppler ultrasonography: is benign prostatic hyperplasia a vascular disease?. BJU Int. 2006 Sep; 98: 587-90

103430 Berger, A. P., Horninger, W., Rehder, P., Tosun, K., Fritsche, G., Bartsch, G., Gozzi, C. Suprapubic electroresection of prostate in three patients with benign prostatic hyperplasia and previous surgery for long urethral stricture. Urology. 2005 Apr; 65: 798

110480 Berger, A. P., Kofler, K., Bektic, J., Rogatsch, H., Steiner, H., Bartsch, G., Klocker, H. Increased growth factor production in a human prostatic stromal cell culture model caused by hypoxia. Prostate. 2003 Sep 15; 57: 57-65

108920 Berger, A. P., Wirtenberger, W., Bektic, J., Steiner, H., Spranger, R., Bartsch, G., Horninger, W. Safer transurethral resection of the prostate: coagulating intermittent cutting reduces hemostatic complications. J Urol. 2004 Jan; 171: 289-91

121930 Berges, R. R., Kassen, A., Senge, T. Treatment of symptomatic benign prostatic hyperplasia with beta-sitosterol: an 18-month follow-up. BJU Int. 2000 May; 85: 842-6

160510 Berges, R. R., Pientka, L. Management of the BPH syndrome in Germany: who is treated and how?. Eur Urol. 1999; 36 Suppl 3: 21-7

137600 Berges, R. R., Pientka, L., Hofner, K., Senge, T., Jonas, U. Male lower urinary tract symptoms and related health care seeking in Germany. Eur Urol. 2001 Jun; 39: 682-7

150870 Bergh, J., Marklund, I., Thellenberg-Karlsson, C., Gronberg, H., Elgh, F. and Alexeyev, O. A. Detection of Escherichia coli 16S RNA and cytotoxic necrotizing factor 1 gene in benign prostate hyperplasia. Eur Urol. 2007; 51: 457-62; discussion 462-3

136500 Berild, D., Ringertz, S. H., Lelek, M. Appropriate antibiotic use according to diagnoses and bacteriological findings: report of 12 point-prevalence studies on antibiotic use in a university hospital. Scand J Infect Dis. 2002; 34: 56-60

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

164980 Bernardo, N., Smith, A. D. Endopyelotomy review. Arch Esp Urol. 1999 Jun; 52: 541-8

117670 Bernie, J. E., Hagey, S., Albo, M. E., Parsons, C. L. The intravesical potassium sensitivity test and urodynamics: implications in a large cohort of patients with lower urinary tract symptoms. J Urol. 2001 Jul; 166: 158-61

110920 Bernie, J. E., Schmidt, J. D. Simple perineal prostatectomy: lessons learned from a modern series. J Urol. 2003 Jul; 170: 115-8; discussion 118

135230 Berrocal, T., Lopez-Pereira, P., Arjonilla, A., Gutierrez, J. Anomalies of the distal ureter, bladder, and urethra in children: embryologic, radiologic, and pathologic features. Radiographics. 2002 Sep-Oct; 22: 1139-64

121520 Berruti, A., Dogliotti, L., Mosca, A., Bellina, M., Mari, M., Torta, M., Tarabuzzi, R., Bollito, E., Fontana, D., Angeli, A. Circulating neuroendocrine markers in patients with prostate carcinoma. Cancer. 2000 Jun 1; 88: 2590-7

134480 Berry, C. Patterns of congenital lower urinary tract obstructive uropathy. Pediatr Dev Pathol. 2003 Mar-Apr; 6: 202-3; author reply 203

126310 Bertaccini, A., Marchiori, D., Pavlica, P., Manferrari, F., Martorana, G. Hematoma into peritoneum following transrectal echo-guide prostate biopsy inducing lower abdominal and urinary tract symptoms. Arch Ital Urol Androl. 2006 Mar; 78: 29-31

105070 Bertaccini, A., Martinelli, A., Ceccarelli, R., Palmieri, F., Vitullo, G., Urbinati, M., Marchiori, D., Costal, F., Martorana, G. Development and validation of the BSP-BPH (Bononian Satisfaction Profile--Benign Prostatic Hyperplasia) a 'disease-specific' questionnaire for the evaluation of health related quality of life in patients with benign prostatic hyperplasia. Arch Ital Urol Androl. 2004 Sep; 76: 103-9

129720 Berthoin, K., Broeckaert, F., Robin, M., Haufroid, V., De Burbure, C., Bernard, A. Serum pneumoproteins and biomarkers of exposure to urban air pollution: a cross-sectional comparison of policemen and foresters. Biomarkers. 2004 Jul-Oct; 9: 341-52

163360 Bertolotto, M., Quaia, E., Galli, G., Martinoli, C., Locatelli, M. Color Doppler sonographic appearance of renal perforating vessels in subjects with normal and impaired renal function. J Clin Ultrasound. 2000 Jul-Aug; 28: 267-76

111680 Bettendorf, O., Heine, B., Kneif, S., Eltze, E., Semjonow, A., Herbst, H., Stein, H., Bocker, W., Poremba, C. Expression-patterns of the RNA component (hTR)and the catalytic subunit (hTERT) of human telomerase in nonneoplastic prostate tissue, prostatic intraepithelial neoplasia, and prostate cancer. Prostate. 2003 May 1; 55: 99-104

100130 Bettuzzi, S., Brausi, M., Rizzi, F., Castagnetti, G., Peracchia, G., Corti, A. Chemoprevention of human prostate cancer by oral administration of green tea catechins in volunteers with high-grade prostate intraepithelial neoplasia: a preliminary report from a one-year proof-of-principle study. Cancer Res. 2006 Jan 15; 66: 1234-40

125850 Beutel, M. E., Weidner, W., Brahler, E. Epidemiology of sexual dysfunction in the male population. Andrologia. 2006 Aug; 38: 115-21

129250 Beutel, M. E., Wiltink, J., Hauck, E. W., Auch, D., Behre, H. M., Brahler, E., Weidner, W. Correlations between hormones, physical, and affective parameters in aging urologic outpatients. Eur Urol. 2005 Jun; 47: 749-55

140120 Bevers, R. F., Abbekerk, E. M., Boon, T. A. Cowper's syringocele: symptoms, classification and treatment of an unappreciated problem. J Urol. 2000 Mar; 163: 782-4

110730 Bhanot, S. Heat versus drugs in the treatment of benign prostatic hyperplasia. BJU Int. 2003 Jul; 92: 152

154670 Bhardwa, J., Goldstraw, M., Tzortzis, S. and Kirby, R. Finasteride and doxazosin alone or in combination for the treatment of benign prostatic hyperplasia. Expert Opin Pharmacother. 2007; 8: 1337-44

107530 Bhargava, S., Canda, A. E., Chapple, C. R. A rational approach to benign prostatic hyperplasia evaluation: recent advances. Curr Opin Urol. 2004 Jan; 14: 6-Jan

126380 Bhasin, S., Cunningham, G. R., Hayes, F. J., Matsumoto, A. M., Snyder, P. J., Swerdloff, R. S., Montori, V. M. Testosterone therapy in adult men with androgen deficiency syndromes: an endocrine society clinical practice guideline. J Clin Endocrinol Metab. 2006 Jun; 91: 1995-2010

110530 Bhatt, R. I., Brown, M. D., Hart, C. A., Gilmore, P., Ramani, V. A., George, N. J., Clarke, N. W. Novel method for the isolation and characterisation of the putative prostatic stem cell. Cytometry A. 2003 Aug; 54: 89-99

105040 Bhattarai, M. D. Re: General surgery units, asymptomatic gallstones and benign prostatic hypertrophy. Surgeon. 2003 Dec; 1: 361

106870 Bhowmick, P., Coad, J. E., Bhowmick, S., Pryor, J. L., Larson, T., De La Rosette, J., Bischof, J. C. In vitro assessment of the efficacy of thermal therapy in human benign prostatic hyperplasia. Int J Hyperthermia. 2004 Jun; 20: 421-39

103550 Bhuiyan, A. K., Kibria, S. A., Subhan, S. S. Role of free to total prostate specific antigen ratio in serum in the diagnosis of prostatic enlargement. Bangladesh Med Res Counc Bull. 2004 Aug; 30: 51-9

151730 Bianchi, S., Bigazzi, R. and Campese, V. M. Long-term effects of spironolactone on proteinuria and kidney function in patients with chronic kidney disease. Kidney Int. 2006; 70: 2116-23

128610 Biard, J. M., Johnson, M. P., Carr, M. C., Wilson, R. D., Hedrick, H. L., Pavlock, C., Adzick, N. S. Long-term outcomes in children treated by prenatal vesicoamniotic shunting for lower urinary tract obstruction. Obstet Gynecol. 2005 Sep; 106: 503-8

164830 Bichler, K., Mittermuller, B., Strohmaier, W. L., Feil, G., Eipper, E. Excretion of tamm-horsfall protein in patients with uric acid stones. Urol Int. 1999; 62: 87-92

153340 Bickel, A., Loberant, N., Bersudsky, M., Goldfeld, M., Ivry, S., Herskovits, M. and Eitan, A. Overcoming reduced hepatic and renal perfusion caused by positive-pressure pneumoperitoneum. Arch Surg. 2007; 142: 119-24; discussion 125

113910 Bieche, I., Latil, A., Parfait, B., Vidaud, D., Laurendeau, I., Lidereau, R., Cussenot, O., Vidaud, M. CGA gene (coding for the alpha subunit of glycoprotein hormones) overexpression in ER alpha-positive prostate tumors. Eur Urol. 2002 Mar; 41: 335-41

136980 Biering-Sorensen, F. Urinary tract infection in individuals with spinal cord lesion. Curr Opin Urol. 2002 Jan; 12: 45-9

165520 Biesenbach, G., Grafinger, P., Stoger, H., Zazgornik, J. How pregnancy influences renal function in nephropathic type 1 diabetic women depends on their pre-conceptional creatinine clearance. J Nephrol. 1999 Jan-Feb; 12: 41-6

120840 Billis, A., Magna, L. A. Prostate elastosis: a microscopic feature useful for the diagnosis of postatrophic hyperplasia. Arch Pathol Lab Med. 2000 Sep; 124: 1306-9

154710 Bing, M. H., Moller, L. A., Jennum, P., Mortensen, S. and Lose, G. Pathophysiological aspects of nocturia in a danish population of men and women age 60 to 80 years. J Urol. 2007; 178: 552-7

104830 Binnie, M. C., Alexander, F. E., Heald, C., Habib, F. K. Polymorphic forms of prostate specific antigen and their interaction with androgen receptor trinucleotide repeats in prostate cancer. Prostate. 2005 Jun 1; 63: 309-15

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

132440 Biocic, M., Saraga, M., Kuzmic, A. C., Bahtijarevic, Z., Budimir, D., Todoric, J., Ujevic, R. M. Pediatric urolithiasis in Croatia. Coll Antropol. 2003 Dec; 27: 745-52

121150 Birckbichler, P. J., Bonner, R. B., Hurst, R. E., Bane, B. L., Pitha, J. V., Hemstreet, G. P., 3rd Loss of tissue transglutaminase as a biomarker for prostate adenocarcinoma. Cancer. 2000 Jul 15; 89: 412-23

128410 Bird, E. T., Parker, B. D., Kim, H. S., Coffield, K. S. Caffeine ingestion and lower urinary tract symptoms in healthy volunteers. Neurourol Urodyn. 2005; 24: 611-5

136110 Bird, V. G., Winfield, H. N. Removal of bladder stone with metal wire infrastructure. Can J Urol. 2002 Apr; 9: 1500-2

106000 Biroccio, A., Leonetti, C. Telomerase as a new target for the treatment of hormone-refractory prostate cancer. Endocr Relat Cancer. 2004 Sep; 11: 407-21

135800 Bisgaard, M. L., Jager, A. C., Myrhoj, T., Bernstein, I., Nielsen, F. C. Hereditary non-polyposis colorectal cancer (HNPCC): phenotype-genotype correlation between patients with and without identified mutation. Hum Mutat. 2002 Jul; 20: 20-7

111080 Bishop, P. Bipolar transurethral resection of the prostate--a new approach. AORN J. 2003 May; 77: 979-83

122500 Black, M. H., Giai, M., Ponzone, R., Sismondi, P., Yu, H., Diamandis, E. P. Serum total and free prostate-specific antigen for breast cancer diagnosis in women. Clin Cancer Res. 2000 Feb; 6: 467-73

135180 Blaivas, J. G. Editorial: cause and effect of lower urinary tract symptoms. J Urol. 2002 Oct; 168: 1464

127310 Blaivas, J. G., Burnett, A. L., Wein, A. J. Current trends in lower urinary tract health highlights from annual advances in genitourinary health: a scientific update. J Urol. 2006 Mar; 175: S3-4

138400 Blaivas, J. G., Groutz, A., Verhaaren, M. Does the method of cystometry affect the incidence of involuntary detrusor contractions? A prospective randomized urodynamic study. Neurourol Urodyn. 2001; 20: 141-5

125130 Blaivas, J. G., Weiss, J. P., Jones, M. The pathophysiology of lower urinary tract symptoms after brachytherapy for prostate cancer. BJU Int. 2006 Dec; 98: 1233-7; discussion 1237

132650 Blake, C., Abrams, P. Noninvasive techniques for the measurement of isovolumetric bladder pressure. J Urol. 2004 Jan; 171: 12-9

128320 Blake, G. M., Gardiner, N., Gnanasegaran, G., Dizdarevic, S. Reference ranges for 51Cr-EDTA measurements of glomerular filtration rate in children. Nucl Med Commun. 2005 Nov; 26: 983-7

123190 Blake-James, B. T., Rashidian, A., Ikeda, Y., Emberton, M. The role of anticholinergics in men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia: a systematic review and meta-analysis. BJU Int. 2007 Jan; 99: 85-96

119670 Blanchard, K., Hananel, A., Rutchik, S., Sullivan, J. Transurethral resection of the prostate: failure patterns and surgical outcomes in patients with symptoms refractory to alpha-antagonists. South Med J. 2000 Dec; 93: 1192-6

134390 Blanchet, P., Droupy, S., Eschwege, P., Hammoudi, Y., Durrbach, A., Charpentier, B., Benoit, G. Urodynamic testing predicts long-term urological complications following simultaneous pancreas-kidney transplantation. Clin Transplant. 2003 Feb; 17: 26-31

104740 Blanco, M., Robinson, M. J. Muscarinic M3 acetylcholine receptor immunostaining in paraffin-embedded normal and neoplastic prostatic gland tissue. Ann Diagn Pathol. 2004 Dec; 8: 333-6

131270 Blandino, A., Minutoli, F., Scribano, E., Vinci, S., Magno, C., Pergolizzi, S., Settineri, N., Pandolfo, I., Gaeta, M. Combined magnetic resonance urography and targeted helical CT in patients with renal colic: a new approach to reduce delivered dose. J Magn Reson Imaging. 2004 Aug; 20: 264-71

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

120810 Blanker, M. H., Bohnen, A. M., Groeneveld, F. P., Bernsen, R. M., Prins, A., Ruud Bosch, J. L. Normal voiding patterns and determinants of increased diurnal and nocturnal voiding frequency in elderly men. J Urol. 2000 Oct; 164: 1201-5

136000 Blanker, M. H., Driessen, L. F., Bosch, J. L., Bohnen, A. M., Thomas, S., Prins, A., Bernsen, R. M., Groeneveld, F. P. Health status and its correlates among Dutch community-dwelling older men with and without lower urogenital tract dysfunction. Eur Urol. 2002 Jun; 41: 602-7

137820 Blanker, M. H., Groeneveld, F. P., Bohnen, A. M., Bernsen, R. M., Prins, A., Thomas, S., Ruud Bosch, J. L. Voided volumes: normal values and relation to lower urinary tract symptoms in elderly men, a community-based study. Urology. 2001 Jun; 57: 1093-8 discussion 1098-9

122140 Blanker, M. H., Groeneveld, F. P., Prins, A., Bernsen, R. M., Bohnen, A. M., Bosch, J. L. Strong effects of definition and nonresponse bias on prevalence rates of clinical benign prostatic hyperplasia: the Krimpen study of male urogenital tract problems and general health status. BJU Int. 2000 Apr; 85: 665-71

133590 Blanker, M. H., Groeneveld, F. P., Thomas, S., Prins, A., Bohnen, A. M., Bosch, J. L. Prostate cancer detection in older men with and without lower urinary tract symptoms: a population-based study. J Am Geriatr Soc. 2003 Jul; 51: 1041-2

128900 Blanker, M. H., Prins, J., Bosch, J. L., Schouten, B. W., Bernsen, R. M., Groeneveld, F. P., Bohnen, A. M. Loss to follow-up in a longitudinal study on urogenital tract symptoms in Dutch older men. Urol Int. 2005; 75: 30-7

160240 Blijenberg, B. G., Storm, B. N., Van Zelst, B. D., Kruger, A. E., Schroder, F. H. New developments in the standardization of total prostate-specific antigen. Clin Biochem. 1999 Nov; 32: 627-34

112340 Blijenberg, B. G., Wildhagen, M. F., Bangma, C. H., Finlay, J. A., Vaisanen, V., Schroder, F. H. Comparison of two assays for human kallikrein 2. Clin Chem. 2003 Feb; 49: 243-7

125280 Blok, B. F., Karsenty, G., Corcos, J. Urological surveillance and management of patients with neurogenic bladder: Results of a survey among practicing urologists in Canada. Can J Urol. 2006 Oct; 13: 3239-43

116430 Blute, M. L., Larson, T. Minimally invasive therapies for benign prostatic hyperplasia. Urology. 2001 Dec; 58: 33-40; discussion 40-1

122870 Blute, M., Ackerman, S. J., Rein, A. L., Beusterien, K., Sullivan, E. M., Tanio, C. P., Strauss, M. J., Manyak, M. J. Cost effectiveness of microwave thermotherapy in patients with benign prostatic hyperplasia: part II--results. Urology. 2000 Dec 20; 56: 981-7

110000 Bo, M., Ventura, M., Marinello, R., Capello, S., Casetta, G., Fabris, F. Relationship between Prostatic Specific Antigen (PSA) and volume of the prostate in the Benign Prostatic Hyperplasia in the elderly. Crit Rev Oncol Hematol. 2003 Sep; 47: 207-11

116830 Boccon-Gibod, L. Rising PSA with a negative biopsy. Eur Urol. 2001; 40 Suppl 2: 8-Mar

152570 Bocharova, O. A., Matveev, V. B., Karpova, R. V., Aksyonov, A. A., Gorozhanskaya, E. G., Chebotaryov, F. N., Katosova, L. D., Platonova, V. I. and Bochkov, N. P. Phytoadaptogen correction of clinical and immunobiological parameters in patients with benign prostatic hyperplasia. Bull Exp Biol Med. 2006; 141: 616-9

107780 Boddy, J. L., Dev, S., Pike, D. J., Malone, P. R. Intra-individual variation of serum prostate specific antigen levels in men with benign prostate biopsies. BJU Int. 2004 Apr; 93: 735-8

110810 Boddy, J. L., Pike, D. J., Malone, P. R. A seven-year follow-up of men following a benign prostate biopsy. Eur Urol. 2003 Jul; 44: 17-20

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

109680 Bodiwala, D., Luscombe, C. J., French, M. E., Liu, S., Saxby, M. F., Jones, P. W., Fryer, A. A., Strange, R. C. Associations between prostate cancer susceptibility and parameters of exposure to ultraviolet radiation. Cancer Lett. 2003 Oct 28; 200: 141-8

108190 Bodiwala, D., Luscombe, C. J., French, M. E., Liu, S., Saxby, M. F., Jones, P. W., Fryer, A. A., Strange, R. C. Polymorphisms in the vitamin D receptor gene, ultraviolet radiation, and susceptibility to prostate cancer. Environ Mol Mutagen. 2004; 43: 121-7

160800 Bodker, A., Bruun, J., Balslev, E., Iversen, H. G., Meyhoff, H. H., Andersson, K. E. Estrogen receptors in the human male prostatic urethra and prostate in prostatic cancer and benign prostatic hyperplasia. Scand J Urol Nephrol. 1999 Aug; 33: 237-42

138250 Boemers, T. M., Bax, N. M., van Gool, J. D. The effect of rectosigmoidectomy and Duhamel-type pull-through procedure on lower urinary tract function in children with Hirschsprung's disease. J Pediatr Surg. 2001 Mar; 36: 453-6

165360 Boemers, T. M., Beek, F. J., Bax, N. M. Review. Guidelines for the urological screening and initial management of lower urinary tract dysfunction in children with anorectal malformations--the ARGUS protocol. BJU Int. 1999 Apr; 83: 662-71

120530 Boesch, S. T., Dobler, G., Ramoner, R., Corvin, S., Thurnher, M., Bartsch, G., Klocker, H. Effects of alpha1-adrenoceptor antagonists on cultured prostatic smooth muscle cells. Prostate Suppl. 2000; 9: 34-41

117170 Boget, S., Cereser, C., Parvaz, P., Leriche, A., Revol, A. Fibroblast growth factor receptor 1 (FGFR1) is over-expressed in benign prostatic hyperplasia whereas FGFR2-IIIc and FGFR3 are not. Eur J Endocrinol. 2001 Sep; 145: 303-10

117420 Boget, S., Leriche, A., Revol, A. Basic fibroblast growth factor and keratinocyte growth factor over-expression in benign prostatic hyperplasia. Farmaco. 2001 May-Jul; 56: 467-9

119960 Bolmsjo, M. B., Vrba, T. Microwave applicators for thermotherapy of benign prostatic hyperplasia: a primer. Tech Urol. 2000 Dec; 6: 245-50

120180 Bolmsjo, M., Schelin, S., Wagrell, L., Larson, T., de la Rosette, J. J., Mattiasson, A. Cell-kill modeling of microwave thermotherapy for treatment of benign prostatic hyperplasia. J Endourol. 2000 Oct; 14: 627-35

136570 Boman, H., Hedelin, H., Holmang, S. The results of routine evaluation of adult patients with haematuria analysed according to referral form information with 2-year follow-up. Scand J Urol Nephrol. 2001 Dec; 35: 497-501

133720 Bondarenko, B., Walther, C., Funk, P., Schlafke, S., Engelmann, U. Long-term efficacy and safety of PRO 160/120 (a combination of sabal and urtica extract) in patients with lower urinary tract symptoms (LUTS). Phytomedicine. 2003; 10 Suppl 4: 53-5

151290 Bonnar-Pizzorno, R. M., Littman, A. J., Kestin, M. and White, E. Saw palmetto supplement use and prostate cancer risk. Nutr Cancer. 2006; 55: 21-7

113800 Bono, A. V., Salvadore, M., Celato, N. Gonadotropin-releasing hormone receptors in prostate tissue. Anal Quant Cytol Histol. 2002 Aug; 24: 221-7

114590 Boon, T. A., Van Venrooij, G. E., Eckhardt, M. D. Effect of diabetes mellitus on lower urinary tract symptoms and dysfunction in patients with benign prostatic hyperplasia. Curr Urol Rep. 2001 Aug; 2: 297-301

153720 Boormans, J. L., van Venrooij, G. E. and Boon, T. A. Invasively estimated International Continence Society obstruction classification versus noninvasively assessed bladder outlet obstruction probability in treatment recommendation for LUTS suggestive of BPH. Urology. 2007; 69: 485-90

164790 Booth, J. T., Zavgorodni, S. F. Set-up error & organ motion uncertainty: a review. Australas Phys Eng Sci Med. 1999 Jun; 22: 29-47

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

117030 Boppart, S. A., Herrmann, J. M., Pitris, C., Stamper, D. L., Brezinski, M. E., Fujimoto, J. G. Real-time optical coherence tomography for minimally invasive imaging of prostate ablation. Comput Aided Surg. 2001; 6: 94-103

164380 Borer, J. G., Park, J. M., Atala, A., Nguyen, H. T., Adam, R. M., Retik, A. B., Freeman, M. R. Heparin-binding EGF-like growth factor expression increases selectively in bladder smooth muscle in response to lower urinary tract obstruction. Lab Invest. 1999 Nov; 79: 1335-45

100320 Borre, M., Lundorf, E., Marcussen, N., Langkilde, N. C., Wolf, H. Phased array magnetic resonance imaging for staging clinically localised prostrate cancer. Acta Oncol. 2005; 44: 589-92

117970 Borth, C. S., Beiko, D. T., Nickel, J. C. Impact of medical therapy on transurethral resection of the prostate: a decade of change. Urology. 2001 Jun; 57: 1082-5; discussion 1085-6

130490 Bosch, J. L., Bohnen, A. M., Groeneveld, F. P. Validity of digital rectal examination and serum prostate specific antigen in the estimation of prostate volume in community-based men aged 50 to 78 years: the Krimpen Study. Eur Urol. 2004 Dec; 46: 753-9

105790 Bosch, J. L., Bohnen, A. M., Groeneveld, F. P., Bernsen, R. Validity of three calliper-based transrectal ultrasound methods and digital rectal examination in the estimation of prostate volume and its changes with age: the Krimpen study. Prostate. 2005 Mar 1; 62: 353-63

152940 Bosma, R. J., Kwakernaak, A. J., van der Heide, J. J., de Jong, P. E. and Navis, G. J. Body mass index and glomerular hyperfiltration in renal transplant recipients: cross-sectional analysis and long-term impact. Am J Transplant. 2007; 7: 645-52

153550 Boss, A., Martirosian, P., Schaefer, J. F., Gehrmann, M., Artunc, F., Risler, T., Oesingmann, N., Claussen, C. D., Schlemmer, H. P. and Schick, F. Dynamic magnetic resonance nephrography: is saturation recovery TrueFISP advantageous over saturation recovery TurboFLASH?. Invest Radiol. 2007; 42: 256-62

102110 Bostwick, D. G., Meiers, I. Atypical small acinar proliferation in the prostate: clinical significance in 2006. Arch Pathol Lab Med. 2006 Jul; 130: 952-7

117250 Bostwick, D. G., Qian, J. Effect of androgen deprivation therapy on prostatic intraepithelial neoplasia. Urology. 2001 Aug; 58: 91-3

110570 Bostwick, D. G., Qian, J., Ma, J., Muir, T. E. Mesonephric remnants of the prostate: incidence and histologic spectrum. Mod Pathol. 2003 Jul; 16: 630-5

103310 Botchkina, G. I., Kim, R. H., Botchkina, I. L., Kirshenbaum, A., Frischer, Z., Adler, H. L. Noninvasive detection of prostate cancer by quantitative analysis of telomerase activity. Clin Cancer Res. 2005 May 1; 11: 3243-9

118150 Botto, H., Lebret, T., Barre, P., Orsoni, J. L., Herve, J. M., Lugagne, P. M. Electrovaporization of the prostate with the Gyrus device. J Endourol. 2001 Apr; 15: 313-6

130180 Bouchelouche, K., Andersen, L., Alvarez, S., Nordling, J., Bouchelouche, P. Increased contractile response to phenylephrine in detrusor of patients with bladder outlet obstruction: effect of the alpha1A and alpha1D-adrenergic receptor antagonist tamsulosin. J Urol. 2005 Feb; 173: 657-61

151690 Boulbes, D., Soustelle, L., Costa, P., Haddoum, M., Bali, J. P., Hollande, F. and Magous, R. Pygeum africanum extract inhibits proliferation of human cultured prostatic fibroblasts and myofibroblasts. BJU Int. 2006; 98: 1106-13

122400 Bousema, J. T., Bussemakers, M. J., van Houwelingen, K. P., Debruyne, F. M., Verbeek, A. L., de La Rosette, J. J., Kiemeney, L. A. Polymorphisms in the vitamin D receptor gene and the androgen receptor gene and the risk of benign prostatic hyperplasia. Eur Urol. 2000 Feb; 37: 234-8

150260 Bouza, C., Lopez, T., Magro, A., Navalpotro, L. and Amate, J. M. Systematic review and meta-analysis of Transurethral Needle Ablation in symptomatic Benign Prostatic Hyperplasia. BMC Urol. 2006; 6: 14

131830 Bower, W. F., Kwok, B., Yeung, C. K. Variability in normative urine flow rates. J Urol. 2004 Jun; 171: 2657-9

127190 Boy, S., Reitz, A., Curt, A., Schurch, B. A case of undiagnosed tethered cord syndrome aggravated by transurethral prostate resection. Nat Clin Pract Urol. 2005 Apr; 2: 199-204; quiz 1 p following 204

122280 Boyle, P., Robertson, C., Lowe, F., Roehrborn, C. Meta-analysis of clinical trials of permixon in the treatment of symptomatic benign prostatic hyperplasia. Urology. 2000 Apr; 55: 533-9

107770 Boyle, P., Robertson, C., Lowe, F., Roehrborn, C. Updated meta-analysis of clinical trials of Serenoa repens extract in the treatment of symptomatic benign prostatic hyperplasia. BJU Int. 2004 Apr; 93: 751-6

116700 Boyle, P., Robertson, C., Manski, R., Padley, R. J., Roehrborn, C. G. Meta-analysis of randomized trials of terazosin in the treatment of benign prostatic hyperplasia. Urology. 2001 Nov; 58: 717-22

133330 Boyle, P., Robertson, C., Mazzetta, C., Keech, M., Hobbs, F. D., Fourcade, R., Kiemeney, L., Lee, C. The prevalence of lower urinary tract symptoms in men and women in four centres. The UrEpik study. BJU Int. 2003 Sep; 92: 409-14

109460 Boyle, P., Robertson, C., Mazzetta, C., Keech, M., Hobbs, R., Fourcade, R., Kiemeney, L., Lee, C. The association between lower urinary tract symptoms and erectile dysfunction in four centres: the UrEpik study. BJU Int. 2003 Nov; 92: 719-25

109880 Boyle, P., Robertson, C., Mazzetta, C., Keech, M., Hobbs, R., Fourcade, R., Kiemeney, L., Lee, C. The relationship between lower urinary tract symptoms and health status: the UREPIK study. BJU Int. 2003 Oct; 92: 575-80

106840 Boyle, P., Robertson, C., Vaughan, E. D., Fitzpatrick, J. M. A meta-analysis of trials of transurethral needle ablation for treating symptomatic benign prostatic hyperplasia. BJU Int. 2004 Jul; 94: 83-8

131930 Boyle, P., Roehrborn, C., Harkaway, R., Logie, J., de la Rosette, J., Emberton, M. 5-Alpha reductase inhibition provides superior benefits to alpha blockade by preventing AUR and BPH-related surgery. Eur Urol. 2004 May; 45: 620-6; discussion 626-7

105400 Bozec, A., Ruffion, A., Decaussin, M., Andre, J., Devonec, M., Benahmed, M., Mauduit, C. Activation of caspases-3, -6, and -9 during finasteride treatment of benign prostatic hyperplasia. J Clin Endocrinol Metab. 2005 Jan; 90: 17-25

113660 Bozlu, M., Doruk, E., Akbay, E., Ulusoy, E., Cayan, S., Acar, D., Kanik, E. A. Effect of administration mode (patient vs physician) and patient's educational level on the Turkish version of the International Prostate Symptom Score. Int J Urol. 2002 Aug; 9: 417-21

103810 Bozlu, M., Ulusoy, E., Cayan, S., Akbay, E., Gorur, S., Akbay, E. A comparison of four different alpha1-blockers in benign prostatic hyperplasia patients with and without diabetes. Scand J Urol Nephrol. 2004; 38: 391-5

156080 Braga, L. H., Lorenzo, A. J., Skeldon, S., Dave, S., Bagli, D. J., Khoury, A. E., Pippi Salle, J. L. and Farhat, W. A. Failed pyeloplasty in children: comparative analysis of retrograde endopyelotomy versus redo pyeloplasty. J Urol. 2007; 178: 2571-5; discussion 2575

153460 Bragg-Gresham, J. L., Fissell, R. B., Mason, N. A., Bailie, G. R., Gillespie, B. W., Wizemann, V., Cruz, J. M., Akiba, T., Kurokawa, K., Ramirez, S. and Young, E. W. Diuretic use, residual renal function, and mortality among hemodialysis patients in the Dialysis Outcomes and Practice Pattern Study (DOPPS). Am J Kidney Dis. 2007; 49: 426-31

119100 Braidman, I. P., Hainey, L., Batra, G., Selby, P. L., Saunders, P. T., Hoyland, J. A. Localization of estrogen receptor beta protein expression in adult human bone. J Bone Miner Res. 2001 Feb; 16: 214-20

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111250 Brameld, K. J., Holman, C. D. Estimation of excess risk of readmission to hospital after an index inpatient separation. Med Care. 2003 May; 41: 693-7

104010 Brandlein, S., Eck, M., Strobel, P., Wozniak, E., Muller-Hermelink, H. K., Hensel, F., Vollmers, H. P. PAM-1, a natural human IgM antibody as new tool for detection of breast and prostate precursors. Hum Antibodies. 2004; 13: 97-104

131340 Brannigan, R. E. Ejaculatory disorders and lower urinary tract symptoms. Curr Urol Rep. 2004 Aug; 5: 280-6

103370 Bratoeff, E., Cabeza, M., Ramirez, E., Heuze, Y., Flores, E. Recent advances in the chemistry and pharmacological activity of new steroidal antiandrogens and 5 alpha-reductase inhibitors. Curr Med Chem. 2005; 12: 927-43

164330 Braun, M. C., West, C. D., Strife, C. F. Differences between membranoproliferative glomerulonephritis types I and III in long-term response to an alternate-day prednisone regimen. Am J Kidney Dis. 1999 Dec; 34: 1022-32

109650 Braun, M. H., Sommer, F., Haupt, G., Mathers, M. J., Reifenrath, B., Engelmann, U. H. Lower urinary tract symptoms and erectile dysfunction: co-morbidity or typical 'Aging Male' symptoms? Results of the 'Cologne Male Survey'. Eur Urol. 2003 Nov; 44: 588-94

108550 Braun, M., Mathers, M., Bondarenko, B., Engelmann, U. Treatment of benign prostatic hyperplasia through transurethral needle ablation (TUNA). Review of the literature and six years of clinical experience. Urol Int. 2004; 72: 32-9

137760 Braun, M., Wassmer, G., Klotz, T., Reifenrath, B., Mathers, M., Engelmann, U. Epidemiology of erectile dysfunction: results of the 'Cologne Male Survey'. Int J Impot Res. 2000 Dec; 12: 305-11

163300 Braun, M., Zumbe, J., Korte, D., Solleder, G., Heidenreich, A., Engelmann, U. Transurethral needle ablation of the prostate: an alternative minimally invasive therapeutic concept in the treatment of benign prostate hyperplasia. Urol Int. 1998; 61: 104-10

106290 Brausi, M., Castagnetti, G., Dotti, A., De Luca, G., Olmi, R., Cesinaro, A. M. Immediate radical prostatectomy in patients with atypical small acinar proliferation. Over treatment?. J Urol. 2004 Sep; 172: 906-8; discussion 908-9

100210 Bravi, F., Bosetti, C., Dal Maso, L., Talamini, R., Montella, M., Negri, E., Ramazzotti, V., Franceschi, S., La Vecchia, C. Food groups and risk of benign prostatic hyperplasia. Urology. 2006 Jan; 67: 73-9

101910 Bravi, F., Bosetti, C., Dal Maso, L., Talamini, R., Montella, M., Negri, E., Ramazzotti, V., Franceschi, S., La Vecchia, C. Macronutrients, fatty acids, cholesterol, and risk of benign prostatic hyperplasia. Urology. 2006 Jun; 67: 1205-11

117370 Brawer, M. K., Stamey, T. A., Fowler, J., Droller, M., Messing, E., Fair, W. R. Perspectives on prostate cancer diagnosis and treatment: a roundtable. Urology. 2001 Aug; 58: 135-40

115240 Breda, G., Isgro, A. Treatment of benign prostatic hyperplasia with water-induced thermotherapy: experience of a single institution. J Endourol. 2002 Mar; 16: 123-6

120200 Brehmer, M., Baba, S. Transurethral microwave thermotherapy: how does it work?. J Endourol. 2000 Oct; 14: 611-5

122160 Brehmer, M., Hilliges, M., Kinn, A. C. Denervation of periurethral prostatic tissue by transurethral microwave thermotherapy. Scand J Urol Nephrol. 2000 Feb; 34: 42-5

120900 Brehmer, M., Nilsson, B. Y. Elevation of sensory thresholds in the prostatic urethra after microwave thermotherapy. BJU Int. 2000 Sep; 86: 427-31

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

122470 Brehmer, M., Svensson, I. Heat-induced apoptosis in human prostatic stromal cells. BJU Int. 2000 Mar; 85: 535-41

161130 Brehmer, M., Wiksell, H., Kinn, A. Sham treatment compared with 30 or 60 min of thermotherapy for benign prostatic hyperplasia: a randomized study. BJU Int. 1999 Aug; 84: 292-6

164820 Brenner, W., Hempel, G., Steinbach, F., Hohenfellner, R., Thuroff, J. W. Enhanced expression of ELAM-1 on endothelium of renal cell carcinoma compared to the corresponding normal renal tissue. Cancer Lett. 1999 Aug 23; 143: 15-21

129180 Brett, J., Watson, E., Hewitson, P., Bukach, C., Edwards, A., Elwyn, G., Austoker, J. PSA testing for prostate cancer: an online survey of the views and reported practice of General Practitioners in the UK. BMC Fam Pract. 2005 Jun 9; 6: 24

112070 Brierly, R. D., Hindley, R. G., McLarty, E., Harding, D. M., Thomas, P. J. A prospective evaluation of detrusor ultrastructural changes in bladder outlet obstruction. BJU Int. 2003 Mar; 91: 360-4

101750 Briganti, A., Naspro, R., Gallina, A., Salonia, A., Vavassori, I., Hurle, R., Scattoni, E., Rigatti, P., Montorsi, F. Impact on sexual function of holmium laser enucleation versus transurethral resection of the prostate: results of a prospective, 2-center, randomized trial. J Urol. 2006 May; 175: 1817-21

133620 Briggs, D., Dudley, C., Pattison, J., Pfeffer, P., Salmela, K., Rowe, P., Tyden, G. Effects of immediate switch from cyclosporine microemulsion to tacrolimus at first acute rejection in renal allograft recipients. Transplantation. 2003 Jun 27; 75: 2058-63

115110 Brookes, S. T., Donovan, J. L., Peters, T. J., Abrams, P., Neal, D. E. Sexual dysfunction in men after treatment for lower urinary tract symptoms: evidence from randomised controlled trial. BMJ. 2002 May 4; 324: 1059-61

109580 Brookes, S., Peters, T., Campbell, R., Featherstone, K., Neal, D., Abrams, P., Donovan, J. Including a 'no active intervention' arm in surgical trials is possible: evidence from the CLasP randomised trial. J Health Serv Res Policy. 2003 Oct; 8: 209-14

165630 Brorson, S. H. Comparison of the immunogold labeling of single light chains and whole immunoglobulins with anti-kappa on LR-white and epoxy sections. Micron. 1998 Dec; 29: 439-43

151500 Bross, S., Honeck, P., Kwon, S. T., Badawi, J. K., Trojan, L. and Alken, P. Correlation between motor function and lower urinary tract dysfunction in patients with infantile cerebral palsy. Neurourol Urodyn. 2007; 26: 222-7

105500 Brossner, C., Petritsch, K., Fink, K., Auprich, M., Madersbacher, S., Adlercreutz, H., Rehak, P., Petritsch, P. Phytoestrogen tissue levels in benign prostatic hyperplasia and prostate cancer and their association with prostatic diseases. Urology. 2004 Oct; 64: 707-11

113200 Brown, C. T., Das, G. Assessment, diagnosis and management of lower urinary tract symptoms in men. Int J Clin Pract. 2002 Oct; 56: 591-603

131900 Brown, C. T., Emberton, M. Could self-management challenge pharmacotherapy as a long-term treatment for uncomplicated lower urinary tract symptoms?. Curr Opin Urol. 2004 Jan; 14: 12-Jul

109290 Brown, C. T., Nuttall, M. C. Dutasteride: a new 5-alpha reductase inhibitor for men with lower urinary tract symptoms secondary to benign prostatic hyperplasia. Int J Clin Pract. 2003 Oct; 57: 705-9

134280 Brown, C. T., O'Flynn, E., Van Der Meulen, J., Newman, S., Mundy, A. R., Emberton, M. The fear of prostate cancer in men with lower urinary tract symptoms: should symptomatic men be screened?. BJU Int. 2003 Jan; 91: 30-2

133650 Brown, C. T., Van Der Meulen, J., Mundy, A. R., Emberton, M. Lifestyle and behavioural interventions for men on watchful waiting with uncomplicated lower urinary tract symptoms: a national multidisciplinary survey. BJU Int. 2003 Jul; 92: 53-7

131420 Brown, C. T., van der Meulen, J., Mundy, A. R., O'Flynn, E., Emberton, M. Defining the components of a self-management programme for men with uncomplicated lower urinary tract symptoms: a consensus approach. Eur Urol. 2004 Aug; 46: 254-62; discussion 263

107870 Brown, G. A., Sussman, D. O. A current review of medical therapy for benign prostatic hyperplasia. J Am Osteopath Assoc. 2004 Feb; 104: S11-6

116940 Brown, J. M., Vessella, R. L., Kostenuik, P. J., Dunstan, C. R., Lange, P. H., Corey, E. Serum osteoprotegerin levels are increased in patients with advanced prostate cancer. Clin Cancer Res. 2001 Oct; 7: 2977-83

155110 Brown, M. D., Gilmore, P. E., Hart, C. A., Samuel, J. D., Ramani, V. A., George, N. J. and Clarke, N. W. Characterization of benign and malignant prostate epithelial Hoechst 33342 side populations. Prostate. 2007; 67: 1384-96

165270 Brubaker, L., Harris, T., Gleason, D., Newman, D., North, B. The external urethral barrier for stress incontinence: a multicenter trial of safety and efficacy. Miniguard Investigators Group. Obstet Gynecol. 1999 Jun; 93: 932-7

157350 Brunner, A., Schaefer, G., Veits, L., Brunner, B., Prelog, M. and Ensinger, C. EpCAM overexpression is associated with high-grade urothelial carcinoma in the renal pelvis. Anticancer Res. 2008; 28: 125-8

154020 Bruno, J. J., 2nd, Armenakas, N. A. and Fracchia, J. A. Influence of prostate volume and percent free prostate specific antigen on prostate cancer detection in men with a total prostate specific antigen of 2.6 to 10.0 ng/ml. J Urol. 2007; 177: 1741-4

126250 Bruschini, H., Almeida, F. G., Srougi, M. Upper and lower urinary tract evaluation of 104 patients with myelomeningocele without adequate urological management. World J Urol. 2006 Jun; 24: 224-8

160530 Bruskewitz, R. Management of symptomatic BPH in the US: who is treated and how?. Eur Urol. 1999; 36 Suppl 3: 7-13

160830 Bruskewitz, R., Girman, C. J., Fowler, J., Rigby, O. F., Sullivan, M., Bracken, R. B., Fusilier, H. A., Kozlowski, D., Kantor, S. D., Johnson, E. L., Wang, D. Z., Waldstreicher, J. Effect of finasteride on bother and other health-related quality of life aspects associated with benign prostatic hyperplasia. PLESS Study Group. Proscar Long-term Efficacy and Safety Study. Urology. 1999 Oct; 54: 670-8

121040 Bryan, N. P., Hastie, K. J., Chapple, C. R. Randomised prospective trial of contact laser prostatectomy (CLAP) versus visual laser coagulation of the prostate (VLAP) for the treatment of benign prostatic hyperplasia. 2-year follow-up. Eur Urol. 2000 Sep; 38: 265-71

109010 Brys, M., Stawinska, M., Foksinski, M., Barecki, A., Zydek, C., Miekos, E., Krajewska, W. M. Androgen receptor versus erbB-1 and erbB-2 expression in human prostate neoplasms. Oncol Rep. 2004 Jan; 11: 219-24

117570 Bubendorf, L., Grilli, B., Sauter, G., Mihatsch, M. J., Gasser, T. C., Dalquen, P. Multiprobe FISH for enhanced detection of bladder cancer in voided urine specimens and bladder washings. Am J Clin Pathol. 2001 Jul; 116: 79-86

160730 Bubendorf, L., Kolmer, M., Kononen, J., Koivisto, P., Mousses, S., Chen, Y., Mahlamaki, E., Schraml, P., Moch, H., Willi, N., Elkahloun, A. G., Pretlow, T. G., Gasser, T. C., Mihatsch, M. J., Sauter, G., Kallioniemi, O. P. Hormone therapy failure in human prostate cancer: analysis by complementary DNA and tissue microarrays. J Natl Cancer Inst. 1999 Oct 20; 91: 1758-64

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

139170 Buchholz, N. P., Salahuddin, S., Haque, R. Genitourinary tuberculosis: a profile of 55 in-patients. J Pak Med Assoc. 2000 Aug; 50: 265-9

105210 Buck, A. C. Is there a scientific basis for the therapeutic effects of serenoa repens in benign prostatic hyperplasia? Mechanisms of action. J Urol. 2004 Nov; 172: 1792-9

103170 Buckham, G. J. Re: Transurethral microwave thermotherapy for benign prostate hyperplasia: separating truth from marketing hype. J Urol. 2005 Jun; 173: 2207

165690 Bugge, J. F., Hartmann, A., Osnes, S., Bentdal, O., Stenstrom, J. Immediate and early renal function after living donor transplantation. Nephrol Dial Transplant. 1999 Feb; 14: 389-93

153850 Bukvic, D., Maric, I., Arsenovic, A., Jankovic, S. and Djukanovic, L. Prevalence of Balkan endemic nephropathy has not changed since 1971 in the Kolubara region in Serbia. Kidney Blood Press Res. 2007; 30: 117-23

133570 Bulbul, M. A., Wazzan, W., Hijaz, A., Shaar, A. The effect of antibiotics on elevated serum prostate specific antigen in patients with urinary symptoms and negative digital rectal examination: a pilot study. J Med Liban. 2002 Jan-Apr; 50: 23-5

117900 Bull, J. H., Ellison, G., Patel, A., Muir, G., Walker, M., Underwood, M., Khan, F., Paskins, L. Identification of potential diagnostic markers of prostate cancer and prostatic intraepithelial neoplasia using cDNA microarray. Br J Cancer. 2001 Jun 1; 84: 1512-9

113260 Bullock, M. J., Srigley, J. R., Klotz, L. H., Goldenberg, S. L. Pathologic effects of neoadjuvant cyproterone acetate on nonneoplastic prostate, prostatic intraepithelial neoplasia, and adenocarcinoma: a detailed analysis of radical prostatectomy specimens from a randomized trial. Am J Surg Pathol. 2002 Nov; 26: 1400-13

123810 Bullock, T. L., Andriole, G. L. , Jr. Emerging drug therapies for benign prostatic hyperplasia. Expert Opin Emerg Drugs. 2006 Mar; 11: 111-23

114310 Burger, M. J., Tebay, M. A., Keith, P. A., Samaratunga, H. M., Clements, J., Lavin, M. F., Gardiner, R. A. Expression analysis of delta-catenin and prostate-specific membrane antigen: their potential as diagnostic markers for prostate cancer. Int J Cancer. 2002 Jul 10; 100: 228-37

100230 Burke, J. P., Jacobson, D. J., McGree, M. E., Roberts, R. O., Girman, C. J., Lieber, M. M., Jacobsen, S. J. Diabetes and benign prostatic hyperplasia progression in Olmsted County, Minnesota. Urology. 2006 Jan; 67: 22-5

101190 Burnett, A. L., Wein, A. J. Benign prostatic hyperplasia in primary care: what you need to know. J Urol. 2006 Mar; 175: S19-24

116980 Burns-Cox, N., Avery, N. C., Gingell, J. C., Bailey, A. J. Changes in collagen metabolism in prostate cancer: a host response that may alter progression. J Urol. 2001 Nov; 166: 1698-701

119930 Bursa, B., Wammack, R., Djavan, B., Planz, B., Waldert, M., Dobronski, T., Stoklosa, T., Borkowski, T., Jakubcky, T., Marberger, M. Outcome predictors of high-energy transurethral microwave thermotherapy. Tech Urol. 2000 Dec; 6: 262-6

130240 Butler, L. D., Symons, B. K., Henderson, S. L., Shortliffe, L. D., Spiegel, D. Hypnosis reduces distress and duration of an invasive medical procedure for children. Pediatrics. 2005 Jan; 115: e77-85

135290 Bux, S., Tarry, W. F., Zaslau, S. Contemporary management of renal trauma. W V Med J. 2002 Jul-Aug; 98: 152-5

117020 Byard, R. W., Harrison, R., Wells, R., Gilbert, J. D. Glycine toxicity and unexpected intra-operative death. J Forensic Sci. 2001 Sep; 46: 1244-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

131630 Byington, C. L., Enriquez, F. R., Hoff, C., Tuohy, R., Taggart, E. W., Hillyard, D. R., Carroll, K. C., Christenson, J. C. Serious bacterial infections in febrile infants 1 to 90 days old with and without viral infections. Pediatrics. 2004 Jun; 113: 1662-6

101460 Byun, S. S., Jeong, H., Jo, M. K., Lee, E. Relative proportions of tissue components in the prostate: are they related to the development of symptomatic BPH in Korean men?. Urology. 2005 Sep; 66: 593-6

121140 Cabelin, M. A., Te, A. E., Kaplan, S. A. Benign prostatic hyperplasia: challenges for the new millennium. Curr Opin Urol. 2000 Jul; 10: 301-6

114500 Cabelin, M. A., Te, A. E., Kaplan, S. A. Transurethral vaporization of the prostate: current techniques. Curr Urol Rep. 2000 Aug; 1: 116-23

137200 Cable, D. G., Deschamps, C., Allen, M. S., Miller, D. L., Nichols, F. C., Trastek, V. F., Pairolero, P. C. Lobar torsion after pulmonary resection: presentation and outcome. J Thorac Cardiovasc Surg. 2001 Dec; 122: 1091-3

130050 Cahill, D. The GP's role in lower urinary tract obstruction. Practitioner. 2005 Jan; 249: 38-42

102670 Cai, T., Gardener, N., Abraham, L., Boddi, V., Abrams, P., Bartoletti, R. Impact of surgical treatment on nocturia in men with benign prostatic obstruction. BJU Int. 2006 Oct; 98: 799-805

119400 Cai, Y. Benign prostatic hyperplasia is a reawakened process of persistent Mullerian duct mesenchyme. BJU Int. 2001 Feb; 87: 177-82

115580 Caine, M., Perlberg, S., Meretyk, S. A placebo-controlled double-blind study of the effect of phenoxybenzamine in benign prostatic obstruction. 1978. J Urol. 2002 Feb; 167: 1101

127130 Cakir, M., Orhan, F., Mungan, I., Sonmez, F. M., Aslan, Y., Kalyoncu, M., Erduran, E., Gedik, Y., Okten, A. Henoch-Schonlein purpura in north-eastern Turkey. Ann Trop Paediatr. 2006 Mar; 26: 59-65

120260 Caldarera, E., Crooks, N. H., Muir, G. H., Pavone-Macaluso, M., Carmichael, P. L. An appraisal of telomerase activity in benign prostatic hyperplasia. Prostate. 2000 Nov 1; 45: 267-70

165060 Calisti, A., Marrocco, G., Patti, G. The role of minimal surgery with renal preservation in abnormal complete duplex systems. Pediatr Surg Int. 1999 Jul; 15: 347-9

165730 Callis, L., Vila, A., Carrera, M., Nieto, J. Long-term effects of cyclosporine A in Alport's syndrome. Kidney Int. 1999 Mar; 55: 1051-6

133760 Calza, L., Manfredi, R., Chiodo, F. Stenotrophomonas (Xanthomonas) maltophilia as an emerging opportunistic pathogen in association with HIV infection: a 10-year surveillance study. Infection. 2003 Jun; 31: 155-61

132210 Cam, K., Akman, Y., Cicekci, B., Senel, F., Erol, A. Mode of administration of international prostate symptom score in patients with lower urinary tract symptoms: physician vs self. Prostate Cancer Prostatic Dis. 2004; 7: 41-4

109220 Cam, K., Akman, Y., Kayikci, A., Senel, F., Erol, A. Short-term subjective efficacy of doxazosin in predicting probability of prostatectomy in the management of benign prostatic hyperplasia in patients with severe symptoms. Int J Urol. 2003 Nov; 10: 582-6

112240 Cam, K., Senel, F., Akman, Y., Erol, A. The efficacy of an abbreviated model of the International Prostate Symptom Score in evaluating benign prostatic hyperplasia. BJU Int. 2003 Feb; 91: 186-9

127580 Camacho, M. E., Reyes-Ortiz, C. A. Sexual dysfunction in the elderly: age or disease?. Int J Impot Res. 2005 Dec; 17 Suppl 1: S52-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

105760 Campbell, B. High rate of prostate symptoms among Ariaal men from Northern Kenya. Prostate. 2005 Jan 1; 62: 83-90

119680 Campbell, C. L., Jiang, Z., Savarese, D. M., Savarese, T. M. Increased expression of the interleukin-11 receptor and evidence of STAT3 activation in prostate carcinoma. Am J Pathol. 2001 Jan; 158: 25-32

139980 Cannon, A., Hammonds, J. C. The role of urine cytology in the assessment of patients with lower urinary tract symptoms. BJU Int. 2000 Feb; 85: 380

157180 Cannon, G. M., Jr., Polsky, E. G., Smaldone, M. C., Gaines, B. A., Schneck, F. X., Bellinger, M. F., Docimo, S. G. and Wu, H. Y. Computerized tomography findings in pediatric renal trauma--indications for early intervention?. J Urol. 2008; 179: 1529-32; discussion 1532-3

152860 Cannon, G. W., Mullins, C., Lucia, M. S., Hayward, S. W., Lin, V., Liu, B. C., Slawin, K., Rubin, M. A. and Getzenberg, R. H. A preliminary study of JM-27: a serum marker that can specifically identify men with symptomatic benign prostatic hyperplasia. J Urol. 2007; 177: 610-4; discussion 614

107120 Canto, E. I., Shariat, S. F., Slawin, K. M. Molecular diagnosis of prostate cancer. Curr Urol Rep. 2004 Jun; 5: 203-11

106300 Canto, E. I., Singh, H., Shariat, S. F., Kadmon, D., Miles, B. J., Wheeler, T. M., Slawin, K. M. Effects of systematic 12-core biopsy on the performance of percent free prostate specific antigen for prostate cancer detection. J Urol. 2004 Sep; 172: 900-4

107300 Canto, E. I., Singh, H., Shariat, S. F., Lamb, D. J., Mikolajczyk, S. D., Linton, H. J., Rittenhouse, H. G., Kadmon, D., Miles, B. J., Slawin, K. M. Serum BPSA outperforms both total PSA and free PSA as a predictor of prostatic enlargement in men without prostate cancer. Urology. 2004 May; 63: 905-10; discussion 910-1

109840 Cao, Y., Becker, C., Lundwall, A., Christensson, A., Gadaleanu, V., Lilja, H., Bjartell, A. Expression of protein C inhibitor (PCI) in benign and malignant prostatic tissues. Prostate. 2003 Nov 1; 57: 196-204

129840 Caoili, E. M., Inampudi, P., Cohan, R. H., Ellis, J. H. Optimization of multi-detector row CT urography: effect of compression, saline administration, and prolongation of acquisition delay. Radiology. 2005 Apr; 235: 116-23

137250 Caparros, T., Lopez, J., Grau, T. Early enteral nutrition in critically ill patients with a high-protein diet enriched with arginine, fiber, and antioxidants compared with a standard high-protein diet. The effect on nosocomial infections and outcome. JPEN J Parenter Enteral Nutr. 2001 Nov-Dec; 25: 299-308; discussion 308-9

134610 Capitano, B., Leshem, O. A., Nightingale, C. H., Nicolau, D. P. Cost effect of managing methicillin-resistant Staphylococcus aureus in a long-term care facility. J Am Geriatr Soc. 2003 Jan; 51: 6-Oct

123520 Capodice, J. L., Katz, A. E. What patients take without telling you: holistic approach for BPH. World J Urol. 2006 Sep; 24: 378-82

125900 Carbone, A., Palleschi, G., Conte, A., Bova, G., Iacovelli, E., Bettolo, R. M., Pastore, A., Inghilleri, M. Gabapentin treatment of neurogenic overactive bladder. Clin Neuropharmacol. 2006 Jul-Aug; 29: 206-14

110200 Carbone, D. J. , Jr., Hodges, S. Medical therapy for benign prostatic hyperplasia: sexual dysfunction and impact on quality of life. Int J Impot Res. 2003 Aug; 15: 299-306

131680 Cardenas, D. D., Hoffman, J. M., Kelly, E., Mayo, M. E. Impact of a urinary tract infection educational program in persons with spinal cord injury. J Spinal Cord Med. 2004; 27: 47-54

101440 Cardile, V., Bellia, M., Lombardo, L., Scifo, C., Renis, M. Distinct response to ionizing radiation of human prostate cell lines. Oncol Rep. 2005 Oct; 14: 981-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

153500 Cardillo, M. R. and Ippoliti, F. Interleukin-6, interleukin-10 and heat shock protein-90 expression in renal epithelial neoplasias and surrounding normal-appearing renal parenchyma. Int J Immunopathol Pharmacol. 2007; 20: 37-46

122440 Cardillo, M. R., Petrangeli, E., Perracchio, L., Salvatori, L., Ravenna, L., Di Silverio, F. Transforming growth factor-beta expression in prostate neoplasia. Anal Quant Cytol Histol. 2000 Feb; 22: 10-Jan

120430 Cardillo, M. R., Petrangeli, E., Salvatori, L., Ravenna, L., Di Silverio, F. Transforming growth factor beta 1 and androgen receptors in prostate neoplasia. Anal Quant Cytol Histol. 2000 Oct; 22: 403-10

108110 Cardoso, L. E., Falcao, P. G., Sampaio, F. J. Increased and localized accumulation of chondroitin sulphate proteoglycans in the hyperplastic human prostate. BJU Int. 2004 Mar; 93: 532-8

108430 Carnell, D. M., Smith, R. E., Daley, F. M., Barber, P. R., Hoskin, P. J., Wilson, G. D., Murray, G. I., Everett, S. A. Target validation of cytochrome P450 CYP1B1 in prostate carcinoma with protein expression in associated hyperplastic and premalignant tissue. Int J Radiat Oncol Biol Phys. 2004 Feb 1; 58: 500-9

153510 Carrier, M., Leblanc, M. H., Perrault, L. P., White, M., Doyle, D., Beaudoin, D. and Guertin, M. C. Basiliximab and rabbit anti-thymocyte globulin for prophylaxis of acute rejection after heart transplantation: a non-inferiority trial. J Heart Lung Transplant. 2007; 26: 258-63

101430 Carson, C. C. Combination of phosphodiesterase-5 inhibitors and alpha-blockers in patients with benign prostatic hyperplasia: treatments of lower urinary tract symptoms, erectile dysfunction, or both?. BJU Int. 2006 Apr; 97 Suppl 2: 39-43; discussion 44-5

126920 Carson, C. C. PDE5 inhibitors: are there differences?. Can J Urol. 2006 Feb; 13 Suppl 1: 34-9

111700 Carson, C., 3rd, Rittmaster, R. The role of dihydrotestosterone in benign prostatic hyperplasia. Urology. 2003 Apr; 61: 2-7

161830 Carter, A., Sells, H., O'Boyle, P. J. High-power KTP laser for the treatment of symptomatic benign prostatic enlargement. BJU Int. 1999 May; 83: 857-8

161470 Carter, A., Sells, H., Speakman, M., Ewings, P., O'Boyle, P., MacDonagh, R. Quality of life changes following KTP/Nd:YAG laser treatment of the prostate and TURP. Eur Urol. 1999 Aug; 36: 92-8

129380 Carter, H. B., Landis, P., Wright, E. J., Parsons, J. K., Metter, E. J. Can a baseline prostate specific antigen level identify men who will have lower urinary tract symptoms later in life?. J Urol. 2005 Jun; 173: 2040-3

120190 Carter, S., Tubaro, A. Relation between intraprostatic temperature and clinical outcome in microwave thermotherapy. J Endourol. 2000 Oct; 14: 617-25

133390 Caruso, D. J., Ankem, M. K., Riordan, J., Barone, J. G. Urinary ascites secondary to forniceal rupture in a child with the Prune Belly Syndrome. Can J Urol. 2003 Jun; 10: 1910-1

108510 Caruso, R. P., Levinson, B., Melamed, J., Wieczorek, R., Taneja, S., Polsky, D., Chang, C., Zeleniuch-Jacquotte, A., Salnikow, K., Yee, H., Costa, M., Osman, I. Altered N-myc downstream-regulated gene 1 protein expression in African-American compared with caucasian prostate cancer patients. Clin Cancer Res. 2004 Jan 1; 10: 222-7

115140 Carvalho, M., Guimaraes, C. M., Mayer, J. R. , Jr., Bordignon, G. P., Queiroz-Telles, F. Hospital-associated funguria: analysis of risk factors, clinical presentation and outcome. Braz J Infect Dis. 2001 Dec; 5: 313-8

130000 Carver, B. S., Kattan, M. W., Scardino, P. T., Eastham, J. A. Gleason grade remains an important prognostic predictor in men diagnosed with prostate cancer while on finasteride therapy. BJU Int. 2005 Mar; 95: 509-12

136790 Cascio, S., Colhoun, E., Puri, P. Megaprepuce associated with vesicoureteric reflux. Eur Urol. 2001 Dec; 40: 696-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

100960 Casella, R., Bubendorf, L., Schaefer, D. J., Bachmann, A., Gasser, T. C., Sulser, T. Does the prostate really need androgens to grow? Transurethral resection of the prostate in a male-to-female transsexual 25 years after sex-changing operation. Urol Int. 2005; 75: 288-90

101680 Casner, P. R. Saw palmetto for benign prostatic hyperplasia. N Engl J Med. 2006 May 4; 354: 1950-1; author reply 1950-1

108400 Cassoni, P., Ghe, C., Marrocco, T., Tarabra, E., Allia, E., Catapano, F., Deghenghi, R., Ghigo, E., Papotti, M., Muccioli, G. Expression of ghrelin and biological activity of specific receptors for ghrelin and des-acyl ghrelin in human prostate neoplasms and related cell lines. Eur J Endocrinol. 2004 Feb; 150: 173-84

125210 Castellan, M., Gosalbez, R., Carmack, A. J., Prieto, J. C., Perez-Brayfield, M., Labbie, A. Transperitoneal and retroperitoneal laparoscopic heminephrectomy--what approach for which patient?. J Urol. 2006 Dec; 176: 2636-9; discussion 2639

157120 Castelletti, F., Donadelli, R., Banterla, F., Hildebrandt, F., Zipfel, P. F., Bresin, E., Otto, E., Skerka, C., Renieri, A., Todeschini, M., Caprioli, J., Caruso, R. M., Artuso, R., Remuzzi, G. and Noris, M. Mutations in FN1 cause glomerulopathy with fibronectin deposits. Proc Natl Acad Sci U S A. 2008; 105: 2538-43

111770 Castro, P., Giri, D., Lamb, D., Ittmann, M. Cellular senescence in the pathogenesis of benign prostatic hyperplasia. Prostate. 2003 Apr 1; 55: 30-8

107110 Castro, P., Xia, C., Gomez, L., Lamb, D. J., Ittmann, M. Interleukin-8 expression is increased in senescent prostatic epithelial cells and promotes the development of benign prostatic hyperplasia. Prostate. 2004 Jul 1; 60: 153-9

152480 Castro-Diaz, D. and Taracena Lafuente, J. M. Detrusor-sphincter dyssynergia. Int J Clin Pract Suppl. 2006; : 17-21

121190 Catalona, W. J., Southwick, P. C., Slawin, K. M., Partin, A. W., Brawer, M. K., Flanigan, R. C., Patel, A., Richie, J. P., Walsh, P. C., Scardino, P. T., Lange, P. H., Gasior, G. H., Loveland, K. G., Bray, K. R. Comparison of percent free PSA, PSA density, and age-specific PSA cutoffs for prostate cancer detection and staging. Urology. 2000 Aug 1; 56: 255-60

150140 Cathcart, P., van der Meulen, J., Armitage, J. and Emberton, M. Incidence of primary and recurrent acute urinary retention between 1998 and 2003 in England. J Urol. 2006; 176: 200-4; discussion 204

129800 Catto, J. W., Azzouzi, A. R., Rehman, I., Feeley, K. M., Cross, S. S., Amira, N., Fromont, G., Sibony, M., Cussenot, O., Meuth, M., Hamdy, F. C. Promoter hypermethylation is associated with tumor location, stage, and subsequent progression in transitional cell carcinoma. J Clin Oncol. 2005 May 1; 23: 2903-10

138950 Cattral, M. S., Bigam, D. L., Hemming, A. W., Carpentier, A., Greig, P. D., Wright, E., Cole, E., Donat, D., Lewis, G. F. Portal venous and enteric exocrine drainage versus systemic venous and bladder exocrine drainage of pancreas grafts: clinical outcome of 40 consecutive transplant recipients. Ann Surg. 2000 Nov; 232: 688-95

154960 Cavalcanti, A. G., Costa, W. S., Baskin, L. S., McAninch, J. A. and Sampaio, F. J. A morphometric analysis of bulbar urethral strictures. BJU Int. 2007; 100: 397-402

110660 Cavarretta, L., Scremin, E., Cucciarre, G., Todeschini, M., Novella, G., Tasca, A. High-energy microwave thermotherapy in the treatment of benign prostatic hyperplasia. Urol Int. 2003; 71: 5-Oct

137310 Cayan, S., Doruk, E., Bozlu, M., Akbay, E., Apaydin, D., Ulusoy, E., Canpolat, B. Is routine urinary tract investigation necessary for children with monosymptomatic primary nocturnal enuresis?. Urology. 2001 Oct; 58: 598-602

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

113950 Cazares, L. H., Adam, B. L., Ward, M. D., Nasim, S., Schellhammer, P. F., Semmes, O. J., Wright, G. L. , Jr. Normal, benign, preneoplastic, and malignant prostate cells have distinct protein expression profiles resolved by surface enhanced laser desorption/ionization mass spectrometry. Clin Cancer Res. 2002 Aug; 8: 2541-52

139020 Celayir, S., Ilce, Z., Danismend, N. Effects of male sex hormones on urodynamics in childhood: intersex patients are a natural model. Pediatr Surg Int. 2000; 16: 502-4

134860 Celayir, S., Ilce, Z., Dervisoglu, S. The sex hormone receptors in the bladder in childhood - I: preliminary report in male subjects. Eur J Pediatr Surg. 2002 Oct; 12: 312-7

109060 Celep, F., Karaguzel, A., Ozgur, G. K., Yildiz, K. Detection of chromosomal aberrations in prostate cancer by fluorescence in situ hybridization (FISH). Eur Urol. 2003 Dec; 44: 666-71

154870 Cerda, J., Cerda, M., Kilcullen, P. and Prendergast, J. In severe acute kidney injury, a higher serum creatinine is paradoxically associated with better patient survival. Nephrol Dial Transplant. 2007; 22: 2781-4

117680 Cervenakov, I., Fillo, J. Our experience with the treatment of benign prostatic hyperplasia (BPH) with tamsulosin. Bratisl Lek Listy. 2001; 102: 138-41

134540 Cervenakov, I., Fillo, J., Mardiak, J., Kopecny, M., Smirala, J., Lepies, P. Speedy elimination of ureterolithiasis in lower part of ureters with the alpha 1-blocker--Tamsulosin. Int Urol Nephrol. 2002; 34: 25-9

134980 Cesario, S. Lower urinary tract symptoms in men. Differential diagnosis is main challenge. Adv Nurse Pract. 2002 Apr; 10: 57-60, 90

140260 Cetinel, B., Demirkesen, O., Onder, A. U., Yaycioglu, O., Ismailoglu, V., Solok, V. Reconstructive surgery in voiding dysfunction: experience with 69 patients. Urology. 2000 Dec 20; 56: 962-6

163000 Cetinkaya, M., Gunce, S., Ulusoy, E., Aksoy, F., Yildiz, O., Adsan, O., Ozden, C. Relationship between prostate specific antigen density, microvessel density and prostatic volume in benign prostatic hyperplasia and advanced prostatic carcinoma. Int Urol Nephrol. 1998; 30: 581-5

120330 Cetinkaya, M., Ozturk, B., Akdemir, O., Aki, F. T. A comparison of fluid absorption during transurethral resection and transurethral vaporization for benign prostatic hyperplasia. BJU Int. 2000 Nov; 86: 820-3

140420 Chacko, K. N., Donovan, J. L., Abrams, P., Peters, T. J., Brookes, S. T., Thorpe, A. C., Gujral, S., Wright, M., Kennedy, L. G., Neal, D. E. Transurethral prostatic resection or laser therapy for men with acute urinary retention: the ClasP randomized trial. J Urol. 2001 Jul; 166: 166-70; discussion 170-1

161370 Chacon, A., Monga, M. Medical management of benign prostatic hyperplasia. Geriatr Nephrol Urol. 1999; 9: 39-48

152990 Chadban, S. J., Baines, L., Polkinghorne, K., Jefferys, A., Dogra, S., Kanganas, C., Irish, A., Eris, J. and Walker, R. Anemia after kidney transplantation is not completely explained by reduced kidney function. Am J Kidney Dis. 2007; 49: 301-9

115220 Chagas, M. A., Babinski, M. A., Costa, W. S., Sampaio, F. J. Stromal and acinar components of the transition zone in normal and hyperplastic human prostate. BJU Int. 2002 May; 89: 699-702

120750 Chahal, R., Sundaram, S. K. Laser ablation of the prostate versus transurethral resection of the prostate in men with benign prostatic hyperplasia. Urology. 2000 Sep 1; 56: 546-7

120590 Chahal, R., Sundaram, S. K., Gogoi, N. K. Assessment of voiding outcome, sexual function and quality of life two years following KTP/YAG hybrid laser prostatectomy. Urol Int. 2000; 65: 125-9

112400 Chakrabarti, R., Robles, L. D., Gibson, J., Muroski, M. Profiling of differential expression of messenger RNA in normal, benign, and metastatic prostate cell lines. Cancer Genet Cytogenet. 2002 Dec; 139: 115-25

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

114900 Chakrabarti, S., Raha, K., Bhunia, C. L., Bhattachary, D. K. The usefulness of prostate specific antigen density as a screening method for prostatic carcinoma. J Indian Med Assoc. 2001 Nov; 99: 627-8, 630

136420 Chakravarti, A., Jones, M. A., Simon, J. Neurofibromatosis involving the urinary bladder. Int J Urol. 2001 Nov; 8: 645-7

157210 Chalise, P. R. and Agrawal, C. S. Change in urinary symptoms and quality of life in men with benign prostatic hyperplasia after transurethral resection of prostate. Nepal Med Coll J. 2007; 9: 255-8

155860 Chalise, P. R., Agrawal, C. S. and Pandit, R. K. Reduction of length of hospital stay after transurethral resection of prostate by early catheter removal: a retrospective analysis. Nepal Med Coll J. 2007; 9: 84-7

155970 Challacombe, B. and Dasgupta, P. Reconstruction of the lower urinary tract by laparoscopic and robotic surgery. Curr Opin Urol. 2007; 17: 390-5

115970 Chambers, A. Transurethral resection syndrome--it does not have to be a mystery. AORN J. 2002 Jan; 75: 156-64, 166, 168-70; quiz 171-8

164040 Chan, J. C., Ko, G. T., Leung, D. H., Cheung, R. C., Cheung, M. Y., So, W. Y., Swaminathan, R., Nicholls, M. G., Critchley, J. A., Cockram, C. S. Long-term effects of angiotensin-converting enzyme inhibition and metabolic control in hypertensive type 2 diabetic patients. Kidney Int. 2000 Feb; 57: 590-600

129590 Chan, S. C., Chan, A. P. Rehabilitation outcomes following traumatic spinal cord injury in a tertiary spinal cord injury centre: a comparison with an international standard. Spinal Cord. 2005 Aug; 43: 489-98

160420 Chancellor, M. B., Atan, A., Rivas, D. A., Watanabe, T., Tai, H. L., Kumon, H. Beneficial effect of intranasal desmopressin for men with benign prostatic hyperplasia and nocturia: preliminary results. Tech Urol. 1999 Dec; 5: 191-4

117710 Chancellor, M. B., Yoshimura, N., Pruchnic, R., Huard, J. Gene therapy strategies for urological dysfunction. Trends Mol Med. 2001 Jul; 7: 301-6

133140 Chand, D. H., Rhoades, T., Poe, S. A., Kraus, S., Strife, C. F. Incidence and severity of vesicoureteral reflux in children related to age, gender, race and diagnosis. J Urol. 2003 Oct; 170: 1548-50

121080 Chander, J., Gupta, U., Mehra, R., Ramteke, V. K. Safety and efficacy of transurethral resection of the prostate under sedoanalgesia. BJU Int. 2000 Aug; 86: 220-2

110220 Chander, J., Vanitha, V., Lal, P., Ramteke, V. K. Transurethral resection of the prostate as catheter-free day-care surgery. BJU Int. 2003 Sep; 92: 422-5

111530 Chandler, J. D., Williams, E. D., Slavin, J. L., Best, J. D., Rogers, S. Expression and localization of GLUT1 and GLUT12 in prostate carcinoma. Cancer. 2003 Apr 15; 97: 2035-42

139200 Chandrasekharam, V. V., Bajpai, M. Management of bladder exstrophy. Indian J Pediatr. 2000 Aug; 67: 579-81

103050 Chang, D. F., Campbell, J. R. Intraoperative floppy iris syndrome associated with tamsulosin. J Cataract Refract Surg. 2005 Apr; 31: 664-73

109780 Chang, J. H., Pathak, A. S., Dikranian, A. H., Danial, T., Patel, H. S., Kaswick, J. A. Benign prostatic stromal hyperplasia with bizarre nuclei. J Urol. 2003 Nov; 170: 1951

112160 Chang, S. G., Hwang, I. C., Lee, J. H., Park, Y. K., Lim, J. W. Infravesical obstruction due to benign intraurethral prostatic cyst. J Korean Med Sci. 2003 Feb; 18: 125-6

106730 Chang, S. S. Monoclonal antibodies and prostate-specific membrane antigen. Curr Opin Investig Drugs. 2004 Jun; 5: 611-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

128940 Chang, Y. H., Chuang, C. K., Ng, K. F., Liao, S. K. Coexistence of a hemorrhagic cyst and carcinoma in the prostate gland. Chang Gung Med J. 2005 Apr; 28: 264-7

105540 Chang, Y. H., Wu, C. H., Lee, Y. L., Huang, P. H., Kao, Y. L., Shiau, M. Y. Evaluation of nuclear matrix protein-22 as a clinical diagnostic marker for bladder cancer. Urology. 2004 Oct; 64: 687-92

102130 Chang, Y. L., Lin, A. T., Chen, K. K., Chang, Y. H., Wu, H. H., Kuo, J. Y., Huang, W. J., Lu, S. H., Hsu, Y. S., Chung, H. J., Chang, S. C. Correlation between serum prostate specific antigen and prostate volume in Taiwanese men with biopsy proven benign prostatic hyperplasia. J Urol. 2006 Jul; 176: 196-9

128290 Chang, Y. S., Chuang, C. K., Ng, K. F., Liao, S. K. Prostatic stromal sarcoma in a young adult: a case report. Arch Androl. 2005 Nov-Dec; 51: 419-24

119610 Chapple, C. R. Alpha adrenoceptor antagonists in the year 2000: is there anything new?. Curr Opin Urol. 2001 Jan; 11: 9-16

112840 Chapple, C. R. Clinical study of benign prostatic disease, current concepts and future prospects: randomized controlled trials versus real life practice. Curr Opin Urol. 2003 Jan; 13: 5-Jan

138160 Chapple, C. R. Introduction and conclusions. Improving the management of lower urinary tract symptoms in real life practices. Eur Urol. 2001; 39 Suppl 3: 1-5

118680 Chapple, C. R. Lower urinary tract symptoms suggestive of benign prostatic obstruction--Triumph: design and implementation. Eur Urol. 2001; 39 Suppl 3: 31-6

106210 Chapple, C. R. Pharmacological therapy of benign prostatic hyperplasia/lower urinary tract symptoms: an overview for the practising clinician. BJU Int. 2004 Sep; 94: 738-44

122170 Chapple, C. R. Randomized controlled trials for benign prostatic obstruction: problems and pitfalls. BJU Int. 2000 Mar; 85 Suppl 1: 54-7

140430 Chapple, C. R., Al-shukri, S. H., Gattegno, B., et al. Tamsulosin oral controlled absorption system (OCAS) in patients with lower controlled absorption system (OCAS) in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia (LUTS/BPH): efficacy and tolerability in a placebo and . Eur Urol Suppl . 2005; 4: 33-44

114880 Chapple, C., Andersson, K. E. Tamsulosin: an overview. World J Urol. 2002 Apr; 19: 397-404

138060 Charach, G., Greenstein, A., Rabinovich, P., Groskopf, I., Weintraub, M. Alleviating constipation in the elderly improves lower urinary tract symptoms. Gerontology. 2001 Mar-Apr; 47: 72-6

117730 Charrier, J. P., Tournel, C., Michel, S., Comby, S., Jolivet-Reynaud, C., Passagot, J., Dalbon, P., Chautard, D., Jolivet, M. Differential diagnosis of prostate cancer and benign prostate hyperplasia using two-dimensional electrophoresis. Electrophoresis. 2001 May; 22: 1861-6

162020 Charrier, J. P., Tournel, C., Michel, S., Dalbon, P., Jolivet, M. Two-dimensional electrophoresis of prostate-specific antigen in sera of men with prostate cancer or benign prostate hyperplasia. Electrophoresis. 1999 Apr-May; 20: 1075-81

136560 Chasens, E. R., Umlauf, M. G., Pillion, D. J., Singh, K. P. Sleep apnea symptoms, nocturia, and diabetes in African-American community dwelling older adults. J Natl Black Nurses Assoc. 2000 Dec; 11: 25-33

161040 Chatelain, C., Autet, W., Brackman, F. Comparison of once and twice daily dosage forms of Pygeum africanum extract in patients with benign prostatic hyperplasia: a randomized, double-blind study, with long-term open label extension. Urology. 1999 Sep; 54: 473-8

109440 Chatterjee, B. The role of the androgen receptor in the development of prostatic hyperplasia and prostate cancer. Mol Cell Biochem. 2003 Nov; 253: 89-101

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

126730 Chaudhri, S., Maruthachalam, K., Kaiser, A., Robson, W., Pickard, R. S., Horgan, A. F. Successful voiding after trial without catheter is not synonymous with recovery of bladder function after colorectal surgery. Dis Colon Rectum. 2006 Jul; 49: 1066-70

134520 Cheah, P. Y., Liong, M. L., Yuen, K. H., Teh, C. L., Khor, T., Yang, J. R., Yap, H. W., Krieger, J. N. Chronic prostatitis: symptom survey with follow-up clinical evaluation. Urology. 2003 Jan; 61: 60-4

139440 Cheater, F. M., Castleden, C. M. Epidemiology and classification of urinary incontinence. Baillieres Best Pract Res Clin Obstet Gynaecol. 2000 Apr; 14: 183-205

140040 Chen, C. P., Tzen, C. Y., Wang, W. Prenatal diagnosis of cystic bladder distension secondary to obstructive uropathy. Prenat Diagn. 2000 Mar; 20: 260-3

129530 Chen, H. P., Chen, T. L., Lai, C. H., Fung, C. P., Wong, W. W., Yu, K. W., Liu, C. Y. Predictors of mortality in Acinetobacter baumannii bacteremia. J Microbiol Immunol Infect. 2005 Apr; 38: 127-36

116850 Chen, J., Chen, R. R., Huang, H. S. Comparison of ofloxacin and norfloxacin concentration in prostatic tissues in patients undergoing transurethral resection of the prostate. J Formos Med Assoc. 2001 Aug; 100: 548-52

108120 Chen, K. C., Peng, C. H., Wang, H. E., Peng, C. C., Peng, R. Y. Modeling of the pH- and the temperature-dependent deviations of the free to total PSA (prostate specific antigen) ratios for clinical predictability of prostate cancer and benign prostate hyperplasia. Bull Math Biol. 2004 May; 66: 423-45

140110 Chen, M. Y., Scharling, E. S., Zagoria, R. J., Bechtold, R. E., Dixon, R. L., Dyer, R. B. CT diagnosis of acute flank pain from urolithiasis. Semin Ultrasound CT MR. 2000 Feb; 21: 19-Feb

152840 Chen, M., Yu, F., Wang, S. X., Zou, W. Z., Zhao, M. H. and Wang, H. Y. Antineutrophil cytoplasmic autoantibody-negative Pauci-immune crescentic glomerulonephritis. J Am Soc Nephrol. 2007; 18: 599-605

122920 Chen, S. S., Hong, J. G., Hsiao, Y. J., Chang, L. S. The correlation between clinical outcome and residual prostatic weight ratio after transurethral resection of the prostate for benign prostatic hyperplasia. BJU Int. 2000 Jan; 85: 79-82

150610 Chen, S. S., Lin, A. T., Chen, K. K. and Chang, L. S. Hemolysis in transurethral resection of the prostate using distilled water as the irrigant. J Chin Med Assoc. 2006; 69: 270-5

134000 Chen, T. I., Hsu, Y. S., Wu, T. T. Lower urinary tract symptoms and uroflow in a community-based sample of Taiwanese men. J Chin Med Assoc. 2003 Feb; 66: 84-8

105330 Chen, W., Yang, C. C., Chen, G. Y., Wu, M. C., Sheu, H. M., Tzai, T. S. Patients with a large prostate show a higher prevalence of androgenetic alopecia. Arch Dermatol Res. 2004 Nov; 296: 245-9

156340 Chen, Y. E., Korbet, S. M., Katz, R. S., Schwartz, M. M. and Lewis, E. J. Value of a complete or partial remission in severe lupus nephritis. Clin J Am Soc Nephrol. 2008; 3: 46-53

111860 Chen, Z., Fan, Z., McNeal, J. E., Nolley, R., Caldwell, M. C., Mahadevappa, M., Zhang, Z., Warrington, J. A., Stamey, T. A. Hepsin and maspin are inversely expressed in laser capture microdissectioned prostate cancer. J Urol. 2003 Apr; 169: 1316-9

133070 Chen, Z., Lan, R., Ye, Z., Yang, W. Analysis on pathogenesis of 50 cases of bladder proliferative lesions. J Huazhong Univ Sci Technolog Med Sci. 2003; 23: 294-6

131140 Chen, Z., Ye, Z., Zeng, W. Clinical investigation on the correlation between lower urinary tract infection and cystitis glandularis. J Huazhong Univ Sci Technolog Med Sci. 2004; 24: 303-4

129550 Cheng, C. W., Chan, L. W., Chan, C. K., Ng, C. F., Cheung, H. Y., Chan, S. Y., Wong, W. S., To, K. F. Is surveillance necessary for inverted papilloma in the urinary bladder and urethra?. ANZ J Surg. 2005 Apr; 75: 213-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

128740 Cheng, Y. W., Wong, S. N. Diagnosing symptomatic urinary tract infections in infants by catheter urine culture. J Paediatr Child Health. 2005 Aug; 41: 437-40

155850 Chertin, B., Ben-Chaim, J., Landau, E. H., Koulikov, D., Nadu, A., Reissman, P., Farkas, A. and Mor, Y. Pediatric transperitoneal laparoscopic partial nephrectomy: comparison with an age-matched group undergoing open surgery. Pediatr Surg Int. 2007; 23: 1233-6

134370 Chertin, B., de Caluwe, D., Puri, P. Is primary endoscopic puncture of ureterocele a long-term effective procedure?. J Pediatr Surg. 2003 Jan; 38: 116-9; discussion 116-9

138170 Chertin, B., Fridmans, A., Hadas-Halpren, I., Farkas, A. Endoscopic puncture of ureterocele as a minimally invasive and effective long-term procedure in children. Eur Urol. 2001 Mar; 39: 332-6

162610 Chertin, B., Moriel, E. Z., Hadas-Halperin, I., Abu-Arafeh, W., Lupa, S., Zilberman, M., Farkas, A. Laser prostatectomy. Long-term follow-up of 303 patients. Eur Urol. 1999 Apr; 35: 285-8

115900 Chess-Williams, R. The use of alpha-adrenoceptor antagonists in lower urinary tract disease. Expert Opin Pharmacother. 2002 Feb; 3: 167-72

117150 Chetcuti, A., Margan, S. H., Russell, P., Mann, S., Millar, D. S., Clark, S. J., Rogers, J., Handelsman, D. J., Dong, Q. Loss of annexin II heavy and light chains in prostate cancer and its precursors. Cancer Res. 2001 Sep 1; 61: 6331-4

160160 Chia, S. J., Foo, K. T. Is staging of benign prostatic hyperplasia (BPH) feasible?. Ann Acad Med Singapore. 1999 Nov; 28: 800-4

112050 Chia, S. J., Heng, C. T., Chan, S. P., Foo, K. T. Correlation of intravesical prostatic protrusion with bladder outlet obstruction. BJU Int. 2003 Mar; 91: 371-4

108030 Chiang, C. H., Chen, K. K., Chang, L. S., Hong, C. J. The impact of polymorphism on prostate specific antigen gene on the risk, tumor volume and pathological stage of prostate cancer. J Urol. 2004 Apr; 171: 1529-32

104570 Chiang, C. H., Hong, C. J., Chang, Y. H., Chang, L. S., Chen, K. K. Human kallikrein-2 gene polymorphism is associated with the occurrence of prostate cancer. J Urol. 2005 Feb; 173: 429-32

111550 Chiang, P. H., Chuang, Y. C., Huang, C. C., Chiang, C. P. Pilot study of transperineal injection of dehydrated ethanol in the treatment of prostatic obstruction. Urology. 2003 Apr; 61: 797-801

120970 Chilton, C. P., Mundy, I. P., Wiseman, O. Results of holmium laser resection of the prostate for benign prostatic hyperplasia. J Endourol. 2000 Aug; 14: 533-4

130960 Chin-Peuckert, L., Rennick, J. E., Jednak, R., Capolicchio, J. P., Salle, J. L. Should warm infusion solution be used for urodynamic studies in children? A prospective randomized study. J Urol. 2004 Oct; 172: 1657-61; discussion 1661

152710 Chionh, J. J., Wei, B. P., Martin, J. A. and Opdam, H. I. Determining normal values for intra-abdominal pressure. ANZ J Surg. 2006; 76: 1106-9

156970 Chitale, S., Mbakada, R., Irving, S. and Burgess, N. Nephroureterectomy for transitional cell carcinoma - the value of pre-operative histology. Ann R Coll Surg Engl. 2008; 90: 45-50

114400 Chiu, A. W., Huang, Y. L., Huan, S. K., Wang, Y. C., Ju, J. P., Chen, M. F., Chou, C. K. Potential molecular marker for detecting transitional cell carcinoma. Urology. 2002 Jul; 60: 181-5

150720 Chiu, G., Gluchowski, C. and Forray, C. Design and synthesis of an alpha1a-adrenergic receptor subtype-selective antagonist from BE2254. Chem Biol Drug Des. 2006; 67: 437-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

154120 Chiu, G., Li, S., Connolly, P. J., Pulito, V., Liu, J. and Middleton, S. A. (Arylpiperazinyl)cyclohexylsufonamides: discovery of alpha(1a/1d)-selective adrenergic receptor antagonists for the treatment of Benign Prostatic Hyperplasia/Lower Urinary Tract Symptoms (BPH/LUTS). Bioorg Med Chem Lett. 2007; 17: 3292-7

154430 Chiu, G., Li, S., Connolly, P. J., Pulito, V., Liu, J. and Middleton, S. A. (Phenylpiperidinyl)cyclohexylsulfonamides: development of alpha1a/1d-selective adrenergic receptor antagonists for the treatment of benign prostatic hyperplasia/lower urinary tract symptoms (BPH/LUTS). Bioorg Med Chem Lett. 2007; 17: 3930-4

104000 Chiu, K. Y., Yong, C. R. Effects of finasteride on prostate volume and prostate-specific antigen. J Chin Med Assoc. 2004 Nov; 67: 571-4

122030 Cho, J. Y., Kim, S. H., Lee, S. E. Peripheral hypoechoic lesions of the prostate: evaluation with color and power Doppler ultrasound. Eur Urol. 2000 Apr; 37: 443-8

152320 Cho, N. Y., Kim, B. H., Choi, M., Yoo, E. J., Moon, K. C., Cho, Y. M., Kim, D. and Kang, G. H. Hypermethylation of CpG island loci and hypomethylation of LINE-1 and Alu repeats in prostate adenocarcinoma and their relationship to clinicopathological features. J Pathol. 2007; 211: 269-77

165680 Choi, I., Romero, M. F., Khandoudi, N., Bril, A., Boron, W. F. Cloning and characterization of a human electrogenic Na+-HCO-3 cotransporter isoform (hhNBC). Am J Physiol. 1999 Mar; 276: C576-84

114270 Choi, J., Ikeguchi, E. F., Lee, S. W., Choi, H. Y., Te, A. E., Kaplan, S. A. Is the higher prevalence of benign prostatic hyperplasia related to lower urinary tract symptoms in Korean men due to a high transition zone index?. Eur Urol. 2002 Jul; 42: 11-Jul

121430 Choi, J., Shendrik, I., Peacocke, M., Peehl, D., Buttyan, R., Ikeguchi, E. F., Katz, A. E., Benson, M. C. Expression of senescence-associated beta-galactosidase in enlarged prostates from men with benign prostatic hyperplasia. Urology. 2000 Jul; 56: 160-6

112320 Choi, M. H., Kim, J. N., Chung, B. C. Rapid HPLC-electrospray tandem mass spectrometric assay for urinary testosterone and dihydrotestosterone glucuronides from patients with benign prostate hyperplasia. Clin Chem. 2003 Feb; 49: 322-5

100680 Choi, Y. D., Cho, N. H., Kwon, D. H., Yang, W. J., Oh, Y. T., Choi, S. K. Juvenile prostatic hyperplasia. Urology. 2005 Oct; 66: 881

114360 Chokkalingam, A. P., Gao, Y. T., Deng, J., Stanczyk, F. Z., Sesterhenn, I. A., Mostofi, F. K., Fraumeni, J. F. , Jr., Hsing, A. W. Insulin-like growth factors and risk of benign prostatic hyperplasia. Prostate. 2002 Jul 1; 52: 98-105

109730 Chokkalingam, A. P., Nyren, O., Johansson, J. E., Gridley, G., McLaughlin, J. K., Adami, H. O., Hsing, A. W. Prostate carcinoma risk subsequent to diagnosis of benign prostatic hyperplasia: a population-based cohort study in Sweden. Cancer. 2003 Oct 15; 98: 1727-34

151960 Chonchol, M. and Scragg, R. 25-Hydroxyvitamin D, insulin resistance, and kidney function in the Third National Health and Nutrition Examination Survey. Kidney Int. 2007; 71: 134-9

125980 Chou, E. C., Lin, A. T., Chen, K. K., Chang, L. S. Superficial transitional cell carcinoma of the ureteral orifice: higher risk of developing subsequent upper urinary tract tumors. Int J Urol. 2006 Jun; 13: 682-5

131300 Choudhary, S., Singh, P., Sundar, E., Kumar, S., Sahai, A. A comparison of sonourethrography and retrograde urethrography in evaluation of anterior urethral strictures. Clin Radiol. 2004 Aug; 59: 736-42

164060 Chow, N. H., Liu, H. S., Chan, S. H., Cheng, H. L., Tzai, T. S. Expression of vascular endothelial growth factor in primary superficial bladder cancer. Anticancer Res. 1999 Sep-Oct; 19: 4593-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

118870 Chow, R. D. Benign prostatic hyperplasia. Patient evaluation and relief of obstructive symptoms. Geriatrics. 2001 Mar; 56: 33-8

117860 Chrischilles, E., Rubenstein, L., Chao, J., Kreder, K. J., Gilden, D., Shah, H. Initiation of nonselective alpha1-antagonist therapy and occurrence of hypotension-related adverse events among men with benign prostatic hyperplasia: a retrospective cohort study. Clin Ther. 2001 May; 23: 727-43

155330 Christ, G. J. and Andersson, K. E. Rho-kinase and effects of Rho-kinase inhibition on the lower urinary tract. Neurourol Urodyn. 2007; 26: 948-54

100790 Christensen, J. H., Fabrin, K., Borup, K., Barber, N., Poulsen, J. Prostate tissue and leukocyte levels of n-3 polyunsaturated fatty acids in men with benign prostate hyperplasia or prostate cancer. BJU Int. 2006 Feb; 97: 270-3

122420 Christensen, M., Wolf, H., Orntoft, T. F. Microsatellite alterations in urinary sediments from patients with cystitis and bladder cancer. Int J Cancer. 2000 Mar 1; 85: 614-7

139700 Christian, M. T., McColl, J. H., MacKenzie, J. R., Beattie, T. J. Risk assessment of renal cortical scarring with urinary tract infection by clinical features and ultrasonography. Arch Dis Child. 2000 May; 82: 376-80

140160 Christiano, A. P., Hollowell, C. M., Kim, H., Kim, J., Patel, R., Bales, G. T., Gerber, G. S. Double-blind randomized comparison of single-dose ciprofloxacin versus intravenous cefazolin in patients undergoing outpatient endourologic surgery. Urology. 2000 Feb; 55: 182-5

127990 Christie, D., Denham, J., Steigler, A., Lamb, D., Turner, S., Mameghan, H., Joseph, D., Matthews, J., Franklin, I., Atkinson, C., North, J., Poulsen, M., Spry, N. A., Tai, K. H., Wynne, C., Duchesne, G., Kovacev, O., Francis, L., Kramar, Delayed rectal and urinary symptomatology in patients treated for prostate cancer by radiotherapy with or without short term neo-adjuvant androgen deprivation. Radiother Oncol. 2005 Nov; 77: 117-25

152590 Christopher-Stine, L., Siedner, M., Lin, J., Haas, M., Parekh, H., Petri, M. and Fine, D. M. Renal biopsy in lupus patients with low levels of proteinuria. J Rheumatol. 2007; 34: 332-5

154390 Chrubasik, J. E., Roufogalis, B. D., Wagner, H. and Chrubasik, S. A comprehensive review on the stinging nettle effect and efficacy profiles. Part II: urticae radix. Phytomedicine. 2007; 14: 568-79

116640 Chtourou, M., Ben Younes, A., Binous, M. Y., Attyaoui, F., Horchani, A. Combination of ballistic lithotripsy and transurethral prostatectomy in bladder stones with benign prostatic hyperplasia: report of 120 cases. J Endourol. 2001 Oct; 15: 851-3

115540 Chu, D. C., Chuang, C. K., Fu, J. B., Huang, H. S., Tseng, C. P., Sun, C. F. The use of real-time quantitative polymerase chain reaction to detect hypermethylation of the CpG islands in the promoter region flanking the GSTP1 gene to diagnose prostate carcinoma. J Urol. 2002 Apr; 167: 1854-8

106630 Chu, D. C., Chuang, C. K., Liou, Y. F., Tzou, R. D., Lee, H. C., Sun, C. F. The use of real-time quantitative PCR to detect circulating prostate-specific membrane antigen mRNA in patients with prostate carcinoma. Ann N Y Acad Sci. 2004 Jun; 1022: 157-62

156650 Chu, I., Bowers, W. J., Caldwell, D., Nakai, J., Wade, M. G., Yagminas, A., Li, N., Moir, D., El Abbas, L., Hakansson, H., Gill, S., Mueller, R. and Pulido, O. Toxicological effects of in utero and lactational exposure of rats to a mixture of environmental contaminants detected in Canadian Arctic human populations. J Toxicol Environ Health A. 2008; 71: 93-108

153110 Chuang, C. K., Chu, D. C., Tzou, R. D., Liou, S. I., Chia, J. H. and Sun, C. F. Hypermethylation of the CpG islands in the promoter region flanking GSTP1 gene is a potential plasma DNA biomarker for detecting prostate carcinoma. Cancer Detect Prev. 2007; 31: 59-63

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111920 Chuang, F. P., Lee, S. S., Wu, S. T., Yu, D. S., Chen, H. I., Chang, S. Y., Sun, G. H. Change in International Prostate Symptom Score after transurethral prostatectomy in Taiwanese men with benign prostate hyperplasia: use of these changes to predict the outcome. Arch Androl. 2003 Mar-Apr; 49: 129-37

123110 Chuang, Y. C., Chancellor, M. B. The application of botulinum toxin in the prostate. J Urol. 2006 Dec; 176: 2375-82

100730 Chuang, Y. C., Chiang, P. H., Huang, C. C., Yoshimura, N., Chancellor, M. B. Botulinum toxin type A improves benign prostatic hyperplasia symptoms in patients with small prostates. Urology. 2005 Oct; 66: 775-9

123240 Chuang, Y. C., Chiang, P. H., Yoshimura, N., De Miguel, F., Chancellor, M. B. Sustained beneficial effects of intraprostatic botulinum toxin type A on lower urinary tract symptoms and quality of life in men with benign prostatic hyperplasia. BJU Int. 2006 Nov; 98: 1033-7; discussion 1337

125990 Chuang, Y. C., Giannantoni, A., Chancellor, M. B. The potential and promise of using botulinum toxin in the prostate gland. BJU Int. 2006 Jul; 98: 28-32

123610 Chuang, Y. C., Tu, C. H., Huang, C. C., Lin, H. J., Chiang, P. H., Yoshimura, N., Chancellor, M. B. Intraprostatic injection of botulinum toxin type-A relieves bladder outlet obstruction in human and induces prostate apoptosis in dogs. BMC Urol. 2006; 6: 12

117630 Chueh, S. C., Guh, J. H., Chen, J., Lai, M. K., Teng, C. M. Dual effects of ouabain on the regulation of proliferation and apoptosis in human prostatic smooth muscle cells. J Urol. 2001 Jul; 166: 347-53

102430 Chun, F. K., Muller, I., Lange, I., Friedrich, M. G., Erbersdobler, A., Karakiewicz, P. I., Graefen, M., Pantel, K., Huland, H., Schwarzenbach, H. Circulating tumour-associated plasma DNA represents an independent and informative predictor of prostate cancer. BJU Int. 2006 Sep; 98: 544-8

100410 Chung, B. H., Hong, S. J. Long-term follow-up study to evaluate the efficacy and safety of the doxazosin gastrointestinal therapeutic system in patients with benign prostatic hyperplasia with or without concomitant hypertension. BJU Int. 2006 Jan; 97: 90-5

101310 Chung, B. H., Hong, S. J., Cho, J. S., Seong do, H. Relationship between serum prostate-specific antigen and prostate volume in Korean men with benign prostatic hyperplasia: a multicentre study. BJU Int. 2006 Apr; 97: 742-6

103960 Chung, B. H., Hong, S. J., Lee, M. S. Doxazosin for benign prostatic hyperplasia: an open-label, baseline-controlled study in Korean general practice. Int J Urol. 2005 Feb; 12: 159-65

155060 Chung, P. W., Bristow, R. G., Milosevic, M. F., Yi, Q. L., Jewett, M. A., Warde, P. R., Catton, C. N., McLean, M., Moore, M., Tannock, I. F. and Gospodarowicz, M. K. Long-term outcome of radiation-based conservation therapy for invasive bladder cancer. Urol Oncol. 2007; 25: 303-9

132640 Chung, S. Y., Meldrum, K., Docimo, S. G. Laparoscopic assisted reconstructive surgery: a 7-year experience. J Urol. 2004 Jan; 171: 372-5

131610 Chung, W. S., Nehra, A., Jacobson, D. J., Roberts, R. O., Rhodes, T., Girman, C. J., Lieber, M. M., Jacobsen, S. J. Lower urinary tract symptoms and sexual dysfunction in community-dwelling men. Mayo Clin Proc. 2004 Jun; 79: 745-9

138340 Ciancio, S. J., Mutchnik, S. E., Rivera, V. M., Boone, T. B. Urodynamic pattern changes in multiple sclerosis. Urology. 2001 Feb; 57: 239-45

115160 Ciatto, S., Bonardi, R., Gervasi, G., Lombardi, C., Di Lollo, S., Crocetti, E., Zappa, M. Transperineal sonography guided biopsy of the prostate: critical review of 1107 cases. Radiol Med (Torino). 2002 Mar; 103: 219-24

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

118390 Cilotti, A., Danza, G., Serio, M. Clinical application of 5alpha-reductase inhibitors. J Endocrinol Invest. 2001 Mar; 24: 199-203

111430 Cimentepe, E., Unsal, A., Saglam, R. Randomized clinical trial comparing transurethral needle ablation with transurethral resection of the prostate for the treatment of benign prostatic hyperplasia: results at 18 months. J Endourol. 2003 Mar; 17: 103-7

131290 Cindolo, L., Palmieri, E. A., Autorino, R., Salzano, L., Altieri, V. Standard versus hydrophilic catheterization in the adjuvant treatment of patients with superficial bladder cancer. Urol Int. 2004; 73: 19-22

119880 Cioanta, I., Muschter, R. Water-induced thermotherapy for benign prostatic hyperplasia. Tech Urol. 2000 Dec; 6: 294-9

107410 Clark, R. V., Hermann, D. J., Cunningham, G. R., Wilson, T. H., Morrill, B. B., Hobbs, S. Marked suppression of dihydrotestosterone in men with benign prostatic hyperplasia by dutasteride, a dual 5alpha-reductase inhibitor. J Clin Endocrinol Metab. 2004 May; 89: 2179-84

165700 Claudon, M., Ben-Sira, L., Lebowitz, R. L. Lower pole reflux in children: uroradiologic appearances and pitfalls. AJR Am J Roentgenol. 1999 Mar; 172: 795-801

134340 Clayton, J., Fardell, B., Hutton-Potts, J., Webb, D., Chye, R. Parenteral antibiotics in a palliative care unit: prospective analysis of current practice. Palliat Med. 2003 Jan; 17: 44-8

110520 Clemens, J. Q. The role of urodynamics in the diagnosis and treatment of benign prostatic hyperplasia. Curr Urol Rep. 2003 Aug; 4: 269-75

115000 Clifford, G. M., Farmer, R. D. Drug or symptom-induced depression in men treated with alpha 1-blockers for benign prostatic hyperplasia? A nested case-control study. Pharmacoepidemiol Drug Saf. 2002 Jan-Feb; 11: 55-61

121580 Clifford, G. M., Farmer, R. D. Medical therapy for benign prostatic hyperplasia: a review of the literature. Eur Urol. 2000 Jul; 38: 2-19

119830 Clifford, G. M., Logie, J., Farmer, R. D. How do symptoms indicative of BPH progress in real life practice? The UK experience. Eur Urol. 2000; 38 Suppl 1: 48-53

105810 Clifford, G. M., Logie, J., Farmer, R. D. No risk of drug-associated liver injury with alpha1-adrenoreceptor blocking agents in men with BPH: results from an observational study using the GPRD. Pharmacoepidemiol Drug Saf. 2005 Feb; 14: 75-80

152870 Coakley, F. V., Chen, I., Qayyum, A., Westphalen, A. C., Carroll, P. R., Hricak, H., Chen, M. H. and Kurhanewicz, J. Validity of prostate-specific antigen as a tumour marker in men with prostate cancer managed by watchful-waiting: correlation with findings at serial endorectal magnetic resonance imaging and spectroscopic imaging. BJU Int. 2007; 99: 41-5

122620 Cohen, P., Nunn, S. E., Peehl, D. M. Transforming growth factor-beta induces growth inhibition and IGF-binding protein-3 production in prostatic stromal cells: abnormalities in cells cultured from benign prostatic hyperplasia tissues. J Endocrinol. 2000 Feb; 164: 215-23

135090 Cohen, R. J., Garrett, K., Golding, J. L., Thomas, R. B., McNeal, J. E. Epithelial differentiation of the lower urinary tract with recognition of the minor prostatic glands. Hum Pathol. 2002 Sep; 33: 905-9

160740 Cohen, Y. C., Rubin, H. R., Freedman, L., Mozes, B. Use of a clustered model to identify factors affecting hospital length of stay. J Clin Epidemiol. 1999 Nov; 52: 1031-6

118730 Colau, A., Lucet, J. C., Rufat, P., Botto, H., Benoit, G., Jardin, A. Incidence and risk factors of bacteriuria after transurethral resection of the prostate. Eur Urol. 2001 Mar; 39: 272-6

113130 Coleman, C. I., Hebert, J. H., Reddy, P. The effect of phytosterols on quality of life in the treatment of benign prostatic hyperplasia. Pharmacotherapy. 2002 Nov; 22: 1426-32

163830 Coll, D. M., Herts, B. R., Davros, W. J., Uzzo, R. G., Novick, A. C. Preoperative use of 3D volume rendering to demonstrate renal tumors and renal anatomy. Radiographics. 2000 Mar-Apr; 20: 431-8

115860 Collins, M. M., Meigs, J. B., Barry, M. J., Walker Corkery, E., Giovannucci, E., Kawachi, I. Prevalence and correlates of prostatitis in the health professionals follow-up study cohort. J Urol. 2002 Mar; 167: 1363-6

126720 Colodner, R., Eliasberg, T., Chazan, B., Raz, R. Clinical significance of bacteriuria with low colony counts of Enterococcus species. Eur J Clin Microbiol Infect Dis. 2006 Apr; 25: 238-41

161210 Colombel, M., Dante, R., Bouvier, R., Ribieras, S., Pangaud, C., Marechal, J. M., Lasne, Y. Differential RNA expression of the pS2 gene in the human benign and malignant prostatic tissue. J Urol. 1999 Sep; 162: 927-30

104340 Comhaire, F., Mahmoud, A. Preventing diseases of the prostate in the elderly using hormones and nutriceuticals. Aging Male. 2004 Jun; 7: 155-69

112650 Comuzzi, B., Lambrinidis, L., Rogatsch, H., Godoy-Tundidor, S., Knezevic, N., Krhen, I., Marekovic, Z., Bartsch, G., Klocker, H., Hobisch, A., Culig, Z. The transcriptional co-activator cAMP response element-binding protein-binding protein is expressed in prostate cancer and enhances androgen- and anti-androgen-induced androgen receptor function. Am J Pathol. 2003 Jan; 162: 233-41

160350 Condie, J. D., Jr., Cutherell, L., Mian, A. Suprapubic prostatectomy for benign prostatic hyperplasia in rural Asia: 200 consecutive cases. Urology. 1999 Dec; 54: 1012-6

152450 Conil, J. M., Georges, B., Fourcade, O., Seguin, T., Lavit, M., Samii, K., Houin, G., Tack, I. and Saivin, S. Assessment of renal function in clinical practice at the bedside of burn patients. Br J Clin Pharmacol. 2007; 63: 583-94

102570 Conley, R., Gupta, S. K., Sathyan, G. Clinical spectrum of the osmotic-controlled release oral delivery system (OROS), an advanced oral delivery form. Curr Med Res Opin. 2006 Oct; 22: 1879-92

153330 Connolly, S. S. and Fitzpatrick, J. M. Medical treatment of benign prostatic hyperplasia. Postgrad Med J. 2007; 83: 73-8

119010 Constantinides, C., Manousakas, T. H., Pavlaki, K., Zizi, D., Kyriakou, G., Alamanis, C. H., Dimopoulos, C. The distribution of S-100 protein in hyperplastic and neoplastic prostatic epithelium. Int Urol Nephrol. 2000; 32: 259-61

112350 Coogan, C. L., Bostwick, D. G., Bloom, K. J., Gould, V. E. Glycoprotein A-80 in the human prostate: immunolocalization in prostatic intraepithelial neoplasia, carcinoma, radiation failure, and after neoadjuvant hormonal therapy. Urology. 2003 Jan; 61: 248-52

126610 Coombs, R. W., Lockhart, D., Ross, S. O., Deutsch, L., Dragavon, J., Diem, K., Hooton, T. M., Collier, A. C., Corey, L., Krieger, J. N. Lower genitourinary tract sources of seminal HIV. J Acquir Immune Defic Syndr. 2006 Apr 1; 41: 430-8

155190 Cooper, G. S., Treadwell, E. L., St Clair, E. W., Gilkeson, G. S. and Dooley, M. A. Sociodemographic associations with early disease damage in patients with systemic lupus erythematosus. Arthritis Rheum. 2007; 57: 993-9

136360 Coppens, L., Bonnet, P., Andrianne, R., de Leval, J. Adult mullerian duct or utricle cyst: clinical significance and therapeutic management of 65 cases. J Urol. 2002 Apr; 167: 1740-4

121440 Corica, F. A., Cheng, L., Ramnani, D., Pacelli, A., Weaver, A., Corica, A. P., Corica, A. G., Larson, T. R., O'Toole, K., Bostwick, D. G. Transurethral hot-water balloon thermoablation for benign prostatic hyperplasia: patient tolerance and pathologic findings. Urology. 2000 Jul; 56: 76-80; discussion 81

103900 Cornelissen, G., Axelrod, D. E., Halberg, F. About-weekly variations in nocturia. Biomed Pharmacother. 2004 Oct; 58 Suppl 1: S140-4

119550 Cornford, P. A., Dodson, A. R., Parsons, K. F., Desmond, A. D., Woolfenden, A., Fordham, M., Neoptolemos, J. P., Ke, Y., Foster, C. S. Heat shock protein expression independently predicts clinical outcome in prostate cancer. Cancer Res. 2000 Dec 15; 60: 7099-105

122010 Corvin, S., Boesch, S., Maneschg, C., Radmayr, C., Bartsch, G., Klocker, H. Effect of heat exposure on viability and contractility of cultured prostatic stromal cells. Eur Urol. 2000 Apr; 37: 499-504

113640 Corvin, S., Schneede, P., Siakavara, E., Frimberger, D., Zaak, D., Siebels, M., Reich, O., Hofstetter, A. Interstitial laser coagulation combined with minimal transurethral resection of the prostate for the treatment of benign prostatic hyperplasia. J Endourol. 2002 Aug; 16: 387-90

156530 Costa, M. J., Delingette, H., Novellas, S. and Ayache, N. Automatic segmentation of bladder and prostate using coupled 3D deformable models. Med Image Comput Comput Assist Interv Int Conf Med Image Comput Comput Assist Interv. 2007; 10: 252-60

105530 Costa, W. S., de Carvalho, A. M., Babinski, M. A., Chagas, M. A., Sampaio, F. J. Volumetric density of elastic and reticular fibers in transition zone of controls and patients with benign prostatic hyperplasia. Urology. 2004 Oct; 64: 693-7

123400 Costabile, R. A., Steers, W. D. How can we best characterize the relationship between erectile dysfunction and benign prostatic hyperplasia?. J Sex Med. 2006 Jul; 3: 676-81

160400 Costello, A. J., Agarwal, D. K., Crowe, H. R., Lynch, W. J. Evaluation of interstitial diode laser therapy for treatment of benign prostatic hyperplasia. Tech Urol. 1999 Dec; 5: 202-6

139630 Costello, A. J., Westcott, M. J., Peters, J. S. Experience with the holmium laser as an endoscopic lithotrite. Aust N Z J Surg. 2000 May; 70: 348-50

113810 Costello, L. C., Franklin, R. B. Testosterone and prolactin regulation of metabolic genes and citrate metabolism of prostate epithelial cells. Horm Metab Res. 2002 Aug; 34: 417-24

165300 Cosyns, J. P., Jadoul, M., Squifflet, J. P., Wese, F. X., van Ypersele de Strihou, C. Urothelial lesions in Chinese-herb nephropathy. Am J Kidney Dis. 1999 Jun; 33: 1011-7

150560 Coulthard, M. G. and Keir, M. J. Reflux nephropathy in kidney transplants, demonstrated by dimercaptosuccinic acid scanning. Transplantation. 2006; 82: 205-10

139760 Coz, F., Orvieto, M., Bustos, M., Lyng, R., Stein, C., Hinrichs, A., San Francisco, I. Extracorporeal shockwave lithotripsy of 2000 urinary calculi with the modulith SL-20: success and failure according to size and location of stones. J Endourol. 2000 Apr; 14: 239-46

151150 Cozzi, P. J., Wang, J., Delprado, W., Madigan, M. C., Fairy, S., Russell, P. J. and Li, Y. Evaluation of urokinase plasminogen activator and its receptor in different grades of human prostate cancer. Hum Pathol. 2006; 37: 1442-51

165610 Craggs, M., McFarlane, J. Neuromodulation of the lower urinary tract. Exp Physiol. 1999 Jan; 84: 149-60

108670 Crain, D. S., Amling, C. L., Kane, C. J. Palliative transurethral prostate resection for bladder outlet obstruction in patients with locally advanced prostate cancer. J Urol. 2004 Feb; 171: 668-71

154820 Crane, H. M., Kestenbaum, B., Harrington, R. D. and Kitahata, M. M. Amprenavir and didanosine are associated with declining kidney function among patients receiving tenofovir. Aids. 2007; 21: 1431-9

154130 Cransberg, K., Cornelissen, M., Lilien, M., Van Hoeck, K., Davin, J. C. and Nauta, J. Maintenance immunosuppression with mycophenolate mofetil and corticosteroids in pediatric kidney transplantation: temporary benefit but not without risk. Transplantation. 2007; 83: 1041-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

103280 Crawford, E. D. Management of lower urinary tract symptoms suggestive of benign prostatic hyperplasia: the central role of the patient risk profile. BJU Int. 2005 Jun; 95 Suppl 4: 5-Jan

125460 Crawford, E. D., Kavanagh, B. D. The role of alpha-blockers in the management of lower urinary tract symptoms in prostate cancer patients treated with radiation therapy. Am J Clin Oncol. 2006 Oct; 29: 517-23

101410 Crawford, E. D., Wilson, S. S., McConnell, J. D., Slawin, K. M., Lieber, M. C., Smith, J. A., Meehan, A. G., Bautista, O. M., Noble, W. R., Kusek, J. W., Nyberg, L. M., Roehrborn, C. G. Baseline factors as predictors of clinical progression of benign prostatic hyperplasia in men treated with placebo. J Urol. 2006 Apr; 175: 1422-6; discussion 1426-7

104080 Crea, G., Sanfilippo, G., Anastasi, G., Magno, C., Vizzini, C., Inferrera, A. Pre-surgical finasteride therapy in patients treated endoscopically for benign prostatic hyperplasia. Urol Int. 2005; 74: 51-3

133180 Creput, C., Durrbach, A., Menier, C., Guettier, C., Samuel, D., Dausset, J., Charpentier, B., Carosella, E. D., Rouas-Freiss, N. Human leukocyte antigen-G (HLA-G) expression in biliary epithelial cells is associated with allograft acceptance in liver-kidney transplantation. J Hepatol. 2003 Oct; 39: 587-94

110820 Crescioli, C., Ferruzzi, P., Caporali, A., Mancina, R., Comerci, A., Muratori, M., Scaltriti, M., Vannelli, G. B., Smiroldo, S., Mariani, R., Villari, D., Bettuzzi, S., Serio, M., Adorini, L., Maggi, M. Inhibition of spontaneous and androgen-induced prostate growth by a nonhypercalcemic calcitriol analog. Endocrinology. 2003 Jul; 144: 3046-57

107590 Crescioli, C., Ferruzzi, P., Caporali, A., Scaltriti, M., Bettuzzi, S., Mancina, R., Gelmini, S., Serio, M., Villari, D., Vannelli, G. B., Colli, E., Adorini, L., Maggi, M. Inhibition of prostate cell growth by BXL-628, a calcitriol analogue selected for a phase II clinical trial in patients with benign prostate hyperplasia. Eur J Endocrinol. 2004 Apr; 150: 591-603

121260 Crescioli, C., Maggie, M., Vannelli, G. B., Luconi, M., Salerno, R., Barni, T., Gulisano, M., Forti, G., Serio, M. Effect of a vitamin D3 analogue on keratinocyte growth factor-induced cell proliferation in benign prostate hyperplasia. J Clin Endocrinol Metab. 2000 Jul; 85: 2576-83

105030 Crescioli, C., Morelli, A., Adorini, L., Ferruzzi, P., Luconi, M., Vannelli, G. B., Marini, M., Gelmini, S., Fibbi, B., Donati, S., Villari, D., Forti, G., Colli, E., Andersson, K. E., Maggi, M. Human bladder as a novel target for vitamin D receptor ligands. J Clin Endocrinol Metab. 2005 Feb; 90: 962-72

112270 Crescioli, C., Villari, D., Forti, G., Ferruzzi, P., Petrone, L., Vannelli, G. B., Adorini, L., Salerno, R., Serio, M., Maggi, M. Des (1-3) IGF-I-stimulated growth of human stromal BPH cells is inhibited by a vitamin D3 analogue. Mol Cell Endocrinol. 2002 Dec 30; 198: 69-75

105490 Crispo, A., Talamini, R., Gallus, S., Negri, E., Gallo, A., Bosetti, C., La Vecchia, C., Dal Maso, L., Montella, M. Alcohol and the risk of prostate cancer and benign prostatic hyperplasia. Urology. 2004 Oct; 64: 717-22

121090 Cristoni, A., Di Pierro, F., Bombardelli, E. Botanical derivatives for the prostate. Fitoterapia. 2000 Aug; 71 Suppl 1: S21-8

104820 Cross, N. A., Chandrasekharan, S., Jokonya, N., Fowles, A., Hamdy, F. C., Buttle, D. J., Eaton, C. L. The expression and regulation of ADAMTS-1, -4, -5, -9, and -15, and TIMP-3 by TGFbeta1 in prostate cells: relevance to the accumulation of versican. Prostate. 2005 May 15; 63: 269-75

153700 Cross, N. A., Reid, S. V., Harvey, A. J., Jokonya, N. and Eaton, C. L. Opposing actions of TGFbeta1 and FGF2 on growth, differentiation and extracellular matrix accumulation in prostatic stromal cells. Growth Factors. 2006; 24: 233-41

112880 Crow, P., Gilbert, H. W., Jones, D. J., Ritchie, A. W. The influence of histological diagnosis on the postoperative complication rate following trans-urethral resection of prostate (TURP). Ann R Coll Surg Engl. 2002 Nov; 84: 418-21

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

103000 Crow, P., Molckovsky, A., Stone, N., Uff, J., Wilson, B., WongKeeSong, L. M. Assessment of fiberoptic near-infrared raman spectroscopy for diagnosis of bladder and prostate cancer. Urology. 2005 Jun; 65: 1126-30

161300 Crundwell, M. C., Morton, D. G., Arkell, D. G., Phillips, S. M. Genetic instability in incidentally discovered and advanced prostate cancer. BJU Int. 1999 Jul; 84: 123-7

104700 Cruz, F., Silva, C. Botulinum toxin in the management of lower urinary tract dysfunction: contemporary update. Curr Opin Urol. 2004 Nov; 14: 329-34

165290 Cruzado, J. M., Torras, J., Riera, M., Condom, E., Lloberas, N., Herrero, I., Martorell, J., Grinyo, J. M. Effect of human natural xenoantibody depletion and complement inactivation on early pig kidney function. Exp Nephrol. 1999 May-Jun; 7: 217-28

119590 Cuellar, D. C., Kyprianou, N. Future concepts in the medical therapy of benign prostatic hyperplasia. Curr Opin Urol. 2001 Jan; 11: 27-33

127290 Culty, T., Delongchamps, N. B., Dominique, S., Servin, F., Ravery, V., Boccon-Gibod, L. Posterior urethral valves in adult with Down syndrome. Urology. 2006 Feb; 67: 424.e1-424.e2

140230 Curran, M. J., Kaefer, M., Peters, C., Logigian, E., Bauer, S. B. The overactive bladder in childhood: long-term results with conservative management. J Urol. 2000 Feb; 163: 574-7

153310 Curtis, A. J., Wolfe, R., Russell, C. O., Costello, A. J., Travis, D. G., Snow, R. and McNeil, J. J. Prioritizing patients for prostatectomy: balancing clinical and psychosocial factors. ANZ J Surg. 2007; 77: 112-7

122360 Curtis, S. P., Eardley, I., Boyce, M., Larson, P., Haesen, R., Gottesdiener, K., Gertz, B. J. Single dose methodology to assess the influence of an alpha1-adrenoceptor antagonist on uroflowmetric parameters in patients with benign prostatic hyperplasia. Br J Clin Pharmacol. 2000 Mar; 49: 269-73

106010 Curtiss, F. R. Value for money in disease management of benign prostatic hyperplasia. J Manag Care Pharm. 2004 Sep-Oct; 10: 456, 459-60

163380 Cuthbertson, S. J. Nursing care for raised intra-abdominal pressure and abdominal decompression in the critically ill. Intensive Crit Care Nurs. 2000 Jun; 16: 175-80

150210 Cuzzolin, L., Fanos, V., Pinna, B., di Marzio, M., Perin, M., Tramontozzi, P., Tonetto, P. and Cataldi, L. Postnatal renal function in preterm newborns: a role of diseases, drugs and therapeutic interventions. Pediatr Nephrol. 2006; 21: 931-8

114700 D'Addessi, A., Martire, M., Cannizzaro, C., Porreca, A., Menchinelli, P., Alcini, A., Alcini, E. Benign prostatic hyperplasia: correlations between receptor density and binding affinity of alpha(1)-adrenoceptors and several clinical parameters. Urol Int. 2002; 68: 246-50

161220 D'Addessi, A., Perilli, V., Ranieri, R., Sollazzi, L., Crea, M. A., Racioppi, M., Alcini, A., Alcini, E. Haemodynamic changes detected during open prostatectomy and transurethral resection for benign prostatic hyperplasia. Scand J Urol Nephrol. 1999 Jun; 33: 176-80

103880 D'Addessi, A., Porreca, A., Foschi, N., Racioppi, M. Thick loop prostatectomy in the endoscopic treatment of benign prostatic hyperplasia: results of a prospective randomised study. Urol Int. 2005; 74: 114-7

133790 Dadhania, D., Muthukumar, T., Ding, R., Li, B., Hartono, C., Serur, D., Seshan, S. V., Sharma, V. K., Kapur, S., Suthanthiran, M. Molecular signatures of urinary cells distinguish acute rejection of renal allografts from urinary tract infection. Transplantation. 2003 May 27; 75: 1752-4

160250 Daehlin, L. Interstitial laser coagulation and transurethral needle ablation in the management of lower urinary tract symptoms due to benign prostatic obstruction. Scand J Urol Nephrol Suppl. 1999; 203: 21-4

153970 Daehlin, L. and Frugard, J. Interstitial laser coagulation in the management of lower urinary tract symptoms suggestive of bladder outlet obstruction from benign prostatic hyperplasia: long-term follow-up. BJU Int. 2007; 100: 89-93

160810 Daehlin, L., Frugard, J. Three-year follow-up after transurethral microwave thermotherapy (TUMT) for benign prostatic hyperplasia using the PRIMUS U + R device. Scand J Urol Nephrol. 1999 Aug; 33: 217-21

119180 Daehlin, L., Frugard, J. Transurethral microwave thermotherapy in the management of lower urinary tract symptoms from benign prostatic obstruction: follow-up after five years. Scand J Urol Nephrol. 2000 Oct; 34: 304-8

115260 Daehlin, L., Gustavsen, A., Nilsen, A. H., Mohn, J. Transurethral needle ablation for treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia: outcome after 1 year. J Endourol. 2002 Mar; 16: 111-5

160880 Daehlin, L., Hedlund, H. Interstitial laser coagulation in patients with lower urinary tract symptoms from benign prostatic obstruction: treatment under sedoanalgesia with pressure-flow evaluation. BJU Int. 1999 Oct; 84: 628-36

128870 Dagan, A., Eisenstein, B., Bar-Nathan, N., Cleper, R., Krause, I., Smolkin, V., Davidovits, M. Tubular and glomerular function in children after renal transplantation. Pediatr Transplant. 2005 Aug; 9: 440-4

128440 D'Agostino, G., Condino, A. M., Gallinari, P., Franceschetti, G. P., Tonini, M. Characterization of prejunctional serotonin receptors modulating. J Pharmacol Exp Ther. 2006 Jan; 316: 129-35

105660 D'Agostino, L., Manguso, F., Bennato, R., Scaramuzzo, A. A life-threatening case of stenosing pill hypopharynx-oesophagitis caused by a tamsulosin capsule. Dig Liver Dis. 2004 Sep; 36: 632-4

132110 Dahl, R., Creemers, J. P., Van Noord, J., Sips, A., Della Cioppa, G., Thomson, M., Andriano, K., Kottakis, J., Fashola, T. Comparable efficacy and tolerability of formoterol (Foradil) administered via a novel multi-dose dry powder inhaler (Certihaler) or the Aerolizer dry powder inhaler in patients with persistent asthma. Respiration. 2004 Mar-Apr; 71: 126-33

114220 Dahle, S. E., Chokkalingam, A. P., Gao, Y. T., Deng, J., Stanczyk, F. Z., Hsing, A. W. Body size and serum levels of insulin and leptin in relation to the risk of benign prostatic hyperplasia. J Urol. 2002 Aug; 168: 599-604

165760 Dahm, P., King, L. R. Experience with transurethral incision of ureteroceles. Urol Int. 1998; 61: 157-61

101890 Dal Maso, L., Zucchetto, A., Tavani, A., Montella, M., Ramazzotti, V., Polesel, J., Bravi, F., Talamini, R., La Vecchia, C., Franceschi, S. Lifetime occupational and recreational physical activity and risk of benign prostatic hyperplasia. Int J Cancer. 2006 May 15; 118: 2632-5

137780 Dalessandri, K. M., Bhoyrul, S., Mulvihill, S. J. Laparoscopic hernia repair and bladder injury. JSLS. 2001 Apr-Jun; 5: 175-7

102290 Dall'Oglio, M. F., Srougi, M., Antunes, A. A., Crippa, A., Cury, J. An improved technique for controlling bleeding during simple retropubic prostatectomy: a randomized controlled study. BJU Int. 2006 Aug; 98: 384-7

112900 Dalquen, P., Kleiber, B., Grilli, B., Herzog, M., Bubendorf, L., Oberholzer, M. DNA image cytometry and fluorescence in situ hybridization for noninvasive detection of urothelial tumors in voided urine. Cancer. 2002 Dec 25; 96: 374-9

129660 Damen-Elias, H. A., Stoutenbeek, P. H., Visser, G. H., Nikkels, P. G., de Jong, T. P. Concomitant anomalies in 100 children with unilateral multicystic kidney. Ultrasound Obstet Gynecol. 2005 Apr; 25: 384-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

131170 Damiano, R., Autorino, R., Esposito, C., Cantiello, F., Sacco, R., de Sio, M., D'Armiento, M. Stent positioning after ureteroscopy for urinary calculi: the question is still open. Eur Urol. 2004 Sep; 46: 381-7; discussion 387-8

121340 D'Amico, A. V., Tempany, C. M., Cormack, R., Hata, N., Jinzaki, M., Tuncali, K., Weinstein, M., Richie, J. P. Transperineal magnetic resonance image guided prostate biopsy. J Urol. 2000 Aug; 164: 385-7

154800 Damman, K., Navis, G., Smilde, T. D., Voors, A. A., van der Bij, W., van Veldhuisen, D. J. and Hillege, H. L. Decreased cardiac output, venous congestion and the association with renal impairment in patients with cardiac dysfunction. Eur J Heart Fail. 2007; 9: 872-8

156690 d'Ancona, F. C. Nonablative minimally invasive thermal therapies in the treatment of symptomatic benign prostatic hyperplasia. Curr Opin Urol. 2008; 18: 21-7

135550 Dani, C., Biadaioli, R., Bertini, G., Martelli, E., Rubaltelli, F. F. Probiotics feeding in prevention of urinary tract infection, bacterial sepsis and necrotizing enterocolitis in preterm infants. A prospective double-blind study. Biol Neonate. 2002 Aug; 82: 103-8

100400 Daniels, N. A., Ewing, S. K., Zmuda, J. M., Wilt, T. J., Bauer, D. C. Correlates and prevalence of prostatitis in a large community-based cohort of older men. Urology. 2005 Nov; 66: 964-70

105750 Daniels, T., Zhang, J., Gutierrez, I., Elliot, M. L., Yamada, B., Heeb, M. J., Sheets, S. M., Wu, X., Casiano, C. A. Antinuclear autoantibodies in prostate cancer: immunity to LEDGF/p75, a survival protein highly expressed in prostate tumors and cleaved during apoptosis. Prostate. 2005 Jan 1; 62: 14-26

120610 Dannull, J., Diener, P. A., Prikler, L., Furstenberger, G., Cerny, T., Schmid, U., Ackermann, D. K., Groettrup, M. Prostate stem cell antigen is a promising candidate for immunotherapy of advanced prostate cancer. Cancer Res. 2000 Oct 1; 60: 5522-8

153870 Danuser, H., Muller, R., Descoeudres, B., Dobry, E. and Studer, U. E. Extracorporeal shock wave lithotripsy of lower calyx calculi: how much is treatment outcome influenced by the anatomy of the collecting system?. Eur Urol. 2007; 52: 539-46

156270 Darabi Mahboub, M. R., Zolfaghari, M. and Ahanian, A. Percutaneous nephrolithotomy of kidney calculi in horseshoe kidney. Urol J. 2007; 4: 147-50

135720 Darge, K., Troeger, J. Vesicoureteral reflux grading in contrast-enhanced voiding urosonography. Eur J Radiol. 2002 Aug; 43: 122-8

137410 Darouiche, R. O., Donovan, W. H., Del Terzo, M., Thornby, J. I., Rudy, D. C., Hull, R. A. Pilot trial of bacterial interference for preventing urinary tract infection. Urology. 2001 Sep; 58: 339-44

164220 Darouiche, R. O., Smith, J. A., Jr., Hanna, H., Dhabuwala, C. B., Steiner, M. S., Babaian, R. J., Boone, T. B., Scardino, P. T., Thornby, J. I., Raad, I. I. Efficacy of antimicrobial-impregnated bladder catheters in reducing catheter-associated bacteriuria: a prospective, randomized, multicenter clinical trial. Urology. 1999 Dec; 54: 976-81

140440 Das, A., Kennett, K. M., Sutton, T., Fraundorfer, M. R., Gilling, P. J. Histologic effects of holmium:YAG laser resection versus transurethral resection of the prostate. J Endourol. 2000 Jun; 14: 459-62

116260 Das, A., Kennett, K., Fraundorfer, M., Gilling, P. Holmium laser resection of the prostate (HoLRP): 2-year follow-up data. Tech Urol. 2001 Dec; 7: 252-5

102840 Das, K., Lau, W., Sivaswaren, C., Ph, T., Fook-Chong, S., Sl, T., Cheng, C. Chromosomal changes in prostate cancer: a fluorescence in situ hybridization study. Clin Genet. 2005 Jul; 68: 40-7

150530 Das, P. M., Ramachandran, K., Vanwert, J., Ferdinand, L., Gopisetty, G., Reis, I. M. and Singal, R. Methylation mediated silencing of TMS1/ASC gene in prostate cancer. Mol Cancer. 2006; 5: 28

118820 Dasari, V. K., Goharderakhshan, R. Z., Perinchery, G., Li, L. C., Tanaka, Y., Alonzo, J., Dahiya, R. Expression analysis of Y chromosome genes in human prostate cancer. J Urol. 2001 Apr; 165: 1335-41

152930 Dasgupta, I., Porter, C., Innes, A. and Burden, R. Benign hypertensive nephrosclerosis. Qjm. 2007; 100: 113-9

135030 Dasgupta, P., Drudge-Coates, L., Smith, K., Booth, C. M. The cost effectiveness of a nurse-led shared-care prostate assessment clinic. Ann R Coll Surg Engl. 2002 Sep; 84: 328-30

104860 David, R. D., Grunberger, I., Shore, N., Swierzewski, S. J., 3rd Multicenter initial U.S. experience with CoreTherm-monitored feedback transurethral microwave thermotherapy for individualized treatment of patients with symptomatic benign prostatic hyperplasia. J Endourol. 2004 Sep; 18: 682-5

163970 David, T. S., Vrahas, M. S. Perioperative lower urinary tract infections and deep sepsis in patients undergoing total joint arthroplasty. J Am Acad Orthop Surg. 2000 Jan-Feb; 8: 66-74

117380 Davies, R. Benign prostatic hyperplasia is a reawakened process of persistent Mullerian duct mesenchyme. BJU Int. 2001 Aug; 88: 306

120920 Davis, G. C., Aronson, N. E., Moul, J. W. Inferior vena cava compression due to massive hydronephrosis from bladder outlet obstruction. Tech Urol. 2000 Sep; 6: 226-7

121620 Dawam, D., Rafindadi, A. H., Kalayi, G. D. Benign prostatic hyperplasia and prostate carcinoma in native Africans. BJU Int. 2000 Jun; 85: 1074-7

163440 Day, N. P., Phu, N. H., Mai, N. T., Bethell, D. B., Chau, T. T., Loc, P. P., Chuong, L. V., Sinh, D. X., Solomon, T., Haywood, G., Hien, T. T., White, N. J. Effects of dopamine and epinephrine infusions on renal hemodynamics in severe malaria and severe sepsis. Crit Care Med. 2000 May; 28: 1353-62

136530 Dayan, P. S., Bennett, J., Best, R., Bregstein, J. S., Levine, D., Novick, M. K., Sonnett, F. M., Stimell-Rauch, M. L., Urtecho, J., Wagh, A., Miller, S. Z. Test characteristics of the urine Gram stain in infants <or= 60 days of age with fever. Pediatr Emerg Care. 2002 Feb; 18: 4-Dec

156910 de Cal, M., Silva, S., Cruz, D., Basso, F., Corradi, V., Lentini, P., Nalesso, F., Dissegna, D., Goepel, V., Chiaramonte, S. and Ronco, C. Oxidative stress and 'monocyte reprogramming' after kidney transplant: a longitudinal study. Blood Purif. 2008; 26: 105-10

135740 De Caluwe, D., Chertin, B., Puri, P. Long-term outcome of the retained ureteral stump after lower pole heminephrectomy in duplex kidneys. Eur Urol. 2002 Jul; 42: 63-6

131950 De Gennaro, M., Capitanucci, M. L., Mastracci, P., Silveri, M., Gatti, C., Mosiello, G. Percutaneous tibial nerve neuromodulation is well tolerated in children and effective for treating refractory vesical dysfunction. J Urol. 2004 May; 171: 1911-3

138980 de Jong, T. P., Dik, P., Klijn, A. J., Uiterwaal, C. S., van Gool, J. D. Ectopic ureterocele: results of open surgical therapy in 40 patients. J Urol. 2000 Dec; 164: 2040-3; discussion 2043-4

133030 de Kort, L. M., Verhulst, J. A., Engelbert, R. H., Uiterwaal, C. S., de Jong, T. P. Lower urinary tract dysfunction in children with generalized hypermobility of joints. J Urol. 2003 Nov; 170: 1971-4

111410 de la Piedra, C., Castro-Errecaborde, N. A., Traba, M. L., Mendez-Davila, C., Garcia-Moreno, C., Rodriguez de Acuna, L., Rodriguez-Molina, J. Bone remodeling markers in the detection of bone metastases in prostate cancer. Clin Chim Acta. 2003 May; 331: 45-53

114580 de la Rosette, J. J., Alivizatos, G., Laguna, M. P. Transurethral hot water balloon thermoablation. Curr Urol Rep. 2001 Aug; 2: 302-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

116840 de la Rosette, J. J., Alivizatos, G., Madersbacher, S., Perachino, M., Thomas, D., Desgrandchamps, F., de Wildt, M. EAU Guidelines on benign prostatic hyperplasia (BPH). Eur Urol. 2001 Sep; 40: 256-63; discussion 264

109470 De La Rosette, J. J., Floratos, D. L., Severens, J. L., Kiemeney, L. A., Debruyne, F. M., Pilar Laguna, M. Transurethral resection vs microwave thermotherapy of the prostate: a cost-consequences analysis. BJU Int. 2003 Nov; 92: 713-8

121250 de la Rosette, J. J., Francisca, E. A., Kortmann, B. B., Floratos, D. L., Debruyne, F. M., Kiemeney, L. A. Clinical efficacy of a new 30-min algorithm for transurethral microwave thermotherapy: initial results. BJU Int. 2000 Jul; 86: 47-51

136370 de la Rosette, J. J., Kortmann, B. B., Rossi, C., Sonke, G. S., Floratos, D. L., Kiemeney, L. A. Long-term risk of re-treatment of patients using alpha-blockers for lower urinary tract symptoms. J Urol. 2002 Apr; 167: 1734-9

110760 de la Rosette, J. J., Laguna, M. P., Gravas, S., de Wildt, M. J. Transurethral microwave thermotherapy: the gold standard for minimally invasive therapies for patients with benign prostatic hyperplasia?. J Endourol. 2003 May; 17: 245-51

119920 de La Rosette, J. J., Laguna, M. P., Pace, G., Kortmann, B. B., Selvaggio, O., Debruyne, F. M., Selvaggi, F. P. Efficacy and safety of the new high-energy 30-minute transurethral microwave thermotherapy: results of 1-year follow-up in a multicenter study. Tech Urol. 2000 Dec; 6: 271-5

116340 de la Rosette, J. J., van der Schoot, D. K., Debruyne, F. M. Recent developments in guidelines on benign prostatic hyperplasia. Curr Opin Urol. 2002 Jan; 12: 6-Mar

160470 de Mey, C. alpha(1)-blockers for BPH: are there differences?. Eur Urol. 1999; 36 Suppl 3: 52-63

119850 De Mey, C. Alpha1-blocker therapy for lower urinary tract symptoms suggestive of benign prostatic obstruction: what are the relevant differences in randomised controlled trials?. Eur Urol. 2000; 38 Suppl 1: 25-39

121590 de Miguel, M. P., Royuela, M., Bethencourt, F. R., Santamaria, L., Fraile, B., Paniagua, R. Immunoexpression of tumour necrosis factor-alpha and its receptors 1 and 2 correlates with proliferation/apoptosis equilibrium in normal, hyperplasic and carcinomatous human prostate. Cytokine. 2000 May; 12: 535-8

161010 De Miguel, P., Royuela,, Bethencourt, R., Ruiz, A., Fraile, B., Paniagua, R. Immunohistochemical comparative analysis of transforming growth factor alpha, epidermal growth factor, and epidermal growth factor receptor in normal, hyperplastic and neoplastic human prostates. Cytokine. 1999 Sep; 11: 722-7

110630 De Nunzio, C., Franco, G., Iori, F., Leonardo, C., Minardi, V., Laurenti, C. Clinical and pressure-flow changes after long-term treatment with alfuzosin SR. Urol Int. 2003; 71: 31-6

112460 de Nunzio, C., Franco, G., Rocchegiani, A., Iori, F., Leonardo, C., Laurenti, C. The evolution of detrusor overactivity after watchful waiting, medical therapy and surgery in patients with bladder outlet obstruction. J Urol. 2003 Feb; 169: 535-9

135370 De Paepe, H., Renson, C., Hoebeke, P., Raes, A., Van Laecke, E., Vande Walle, J. The role of pelvic-floor therapy in the treatment of lower urinary tract dysfunctions in children. Scand J Urol Nephrol. 2002; 36: 260-7

139320 De Palma, D., Manzoni, G. A. The detection of vesicoureteral reflux in the nonfunctioning lower half of an occult' duplex kidney by Tc-99m MAG3 indirect radionuclide cystography. Clin Nucl Med. 2000 Aug; 25: 628-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

107760 de Reijke, T. M., Klarskov, P. Comparative efficacy of two alpha-adrenoreceptor antagonists, doxazosin and alfuzosin, in patients with lower urinary tract symptoms from benign prostatic enlargement. BJU Int. 2004 Apr; 93: 757-62

115840 De Rose, A. F., Carmignani, G., Corbu, C., Giglio, M., Traverso, P., Naselli, A., Belgrano, E., Catuogno, C., Fontana, D., Maver, A., Mirone, V., Muzzonigro, G., Di Trapani, D., Bonini, F. Observational multicentric trial performed with doxazosin: evaluation of sexual effects on patients with diagnosed benign prostatic hyperplasia. Urol Int. 2002; 68: 95-8

134040 De Vocht, T. F., van Venrooij, G. E., Boon, T. A. Self-expanding stent insertion for urethral strictures: a 10-year follow-up. BJU Int. 2003 May; 91: 627-30

135690 De Vries, S. H., Klijn, A. J., Lilien, M. R., De Jong, T. P. Development of renal function after neonatal urinary ascites due to obstructive uropathy. J Urol. 2002 Aug; 168: 675-8

103150 de Vries, S. H., Raaijmakers, R., Blijenberg, B. G., Mikolajczyk, S. D., Rittenhouse, H. G., Schroder, F. H. Additional use of. Urology. 2005 May; 65: 926-30

134430 De Wachter, S., Wyndaele, J. J. Quest for standardisation of electrical sensory testing in the lower urinary tract: the influence of technique related factors on bladder electrical thresholds. Neurourol Urodyn. 2003; 22: 118-22

120160 de Wildt, M. J., Wagrell, L., Larson, T. R., Eliasson, T. Clinical results of microwave thermotherapy for benign prostatic hyperplasia. J Endourol. 2000 Oct; 14: 651-6

132290 Debes, J. D., Roberts, R. O., Jacobson, D. J., Girman, C. J., Lieber, M. M., Tindall, D. J., Jacobsen, S. J. Inverse association between prostate cancer and the use of calcium channel blockers. Cancer Epidemiol Biomarkers Prev. 2004 Feb; 13: 255-9

120290 Debruyne, F. M. Alpha blockers: are all created equal?. Urology. 2000 Nov 1; 56: 20-2

106060 Debruyne, F., Barkin, J., van Erps, P., Reis, M., Tammela, T. L., Roehrborn, C. Efficacy and safety of long-term treatment with the dual 5 alpha-reductase inhibitor dutasteride in men with symptomatic benign prostatic hyperplasia. Eur Urol. 2004 Oct; 46: 488-94; discussion 495

107200 Debruyne, F., Boyle, P., Calais Da Silva, F., Gillenwater, J. G., Hamdy, F. C., Perrin, P., Teillac, P., Vela-Navarrete, R., Raynaud, J. P., Schulman, C. C. Evaluation of the clinical benefit of permixon and tamsulosin in severe BPH patients-PERMAL study subset analysis. Eur Urol. 2004 Jun; 45: 773-9; disucssion 779-80

140310 Debruyne, F., Koch, G., Boyle, P., Da Silva, F. C., Gillenwater, J. G., Hamdy, F. C., Perrin, P., Teillac, P., Vela-Navarrete, R., Raynaud, J. P. [Comparison of a phytotherapeutic agent (Permixon) with an alpha-blocker (Tamsulosin) in the treatment of benign prostatic hyperplasia: a 1-year randomized international study]. Prog Urol. 2002 Jun; 12: 384-92; discussion 394-4

114660 Debruyne, F., Koch, G., Boyle, P., Da Silva, F. C., Gillenwater, J. G., Hamdy, F. C., Perrin, P., Teillac, P., Vela-Navarrete, R., Raynaud, J. P. Comparison of a phytotherapeutic agent (Permixon) with an alpha-blocker (Tamsulosin) in the treatment of benign prostatic hyperplasia: a 1-year randomized international study. Eur Urol. 2002 May; 41: 497-506; discussion 506-7

134010 Deconinck, H. The health condition of spinal cord injuries in two Afghan towns. Spinal Cord. 2003 May; 41: 303-9

156330 Dedhia, R. C., Calhoun, E. and McVary, K. T. Impact of phytotherapy on utility scores for 5 benign prostatic hyperplasia/lower urinary tract symptoms health states. J Urol. 2008; 179: 220-5

133160 DeFoor, W., Minevich, E., McEnery, P., Tackett, L., Reeves, D., Sheldon, C. Lower urinary tract reconstruction is safe and effective in children with end stage renal disease. J Urol. 2003 Oct; 170: 1497-500; discussion 1500

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

133130 DeFoor, W., Minevich, E., Reeves, D., Tackett, L., Wacksman, J., Sheldon, C. Gastrocystoplasty: long-term followup. J Urol. 2003 Oct; 170: 1647-9; discussion 1649-50

133000 Defreitas, G. A., Lemack, G. E., Zimmern, P. E., Dewey, R. B., Roehrborn, C. G., O'Suilleabhain, P. E. Distinguishing neurogenic from non-neurogenic detrusor overactivity: a urodynamic assessment of lower urinary tract symptoms in patients with and without Parkinson's disease. Urology. 2003 Oct; 62: 651-5

100800 Degtyar, V. G., Babkina, T. V., Kazantseva, I. A., Morozov, A. P., Trapeznikova, M. F., Kushlinskii, N. E. Reductase activity of 17beta-hydroxysteroid oxidoreductase in prostatic tumors of different histological structure. Bull Exp Biol Med. 2005 Jun; 139: 715-7

164370 del Campo-Rodriguez, M., Batista-Miranda, J. E., Errando-Smet, C., Arano-Bertran, P. Outcome of colposuspension in patients with stress urinary incontinence and abnormal cystometry. Arch Esp Urol. 1999 Sep; 52: 810-4

117500 Delakas, D., Lianos, E., Karyotis, I., Cranidis, A. Finasteride: a long-term follow-up in the treatment of recurrent hematuria associated with benign prostatic hyperplasia. Urol Int. 2001; 67: 69-72

116090 Deliveliotis, C. H., Varkarakis, J., Alargof, E., Skolarikos, A., Dimopoulos, C. Extracorporeal shockwave lithotripsy in patients with distal ureteral calculi does not influence the prostate specific antigen value. J Endourol. 2001 Dec; 15: 975-8

107740 Deliveliotis, C., Liakouras, C., Delis, A., Skolarikos, A., Varkarakis, J., Protogerou, V. Prostate operations: long-term effects on sexual and urinary function and quality of life. Comparison with an age-matched control population. Urol Res. 2004 Aug; 32: 283-9

165460 Demanes, D. J., Rege, S., Rodriquez, R. R., Schutz, K. L., Altieri, G. A., Wong, T. The use and advantages of a multichannel vaginal cylinder in high-dose-rate brachytherapy. Int J Radiat Oncol Biol Phys. 1999 Apr 1; 44: 211-9

107310 Demark-Wahnefried, W., Robertson, C. N., Walther, P. J., Polascik, T. J., Paulson, D. F., Vollmer, R. T. Pilot study to explore effects of low-fat, flaxseed-supplemented diet on proliferation of benign prostatic epithelium and prostate-specific antigen. Urology. 2004 May; 63: 900-4

121410 DeMeritt, J. S., Elmasri, F. F., Esposito, M. P., Rosenberg, G. S. Relief of benign prostatic hyperplasia-related bladder outlet obstruction after transarterial polyvinyl alcohol prostate embolization. J Vasc Interv Radiol. 2000 Jun; 11: 767-70

112420 Demetrios, P., Constantine, B., Demetrios, S., Nikolaos, A. Haemophilus influenzae acute pyelonephritis in the elderly. Int Urol Nephrol. 2002; 34: 23-4

153470 Denes, F. T., Danilovic, A. and Srougi, M. Outcome of laparoscopic upper-pole nephrectomy in children with duplex systems. J Endourol. 2007; 21: 162-8

115410 Dent, L. A., Brown, W. C., Murney, J. D. Citalopram-induced priapism. Pharmacotherapy. 2002 Apr; 22: 538-41

160030 Denti, L., Pasolini, G., Cortellini, P., Sanfelici, L., Benedetti, R., Cecchetti, A., Ferretti, S., Banchini, A., Ablondi, F., Valenti, G. Effects of 5 alpha-reductase inhibition by finasteride on lipoproteins and body composition in males affected by benign prostatic hyperplasia (BPH). J Endocrinol Invest. 1999; 22: 70-1

120760 Denti, L., Pasolini, G., Cortellini, P., Sanfelici, L., Benedetti, R., Cecchetti, A., Ferretti, S., Bruschieri, L., Ablondi, F., Valenti, G. Changes in HDL-cholesterol and lipoprotein Lp(a) after 6-month treatment with finasteride in males affected by benign prostatic hyperplasia (BPH). Atherosclerosis. 2000 Sep; 152: 159-66

161600 Desai, M. M. Transrectal ultrasound parameters: presumed circle area ratio and transitional zone area in the evaluation of patients with lower urinary tract symptoms. J Endourol. 1999 May; 13: 317-21

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

116160 Desgrandchamps, F. Importance of individual response in symptom score evaluation. Eur Urol. 2001; 40 Suppl 3: 7-Feb

107510 Desgrandchamps, F. Who will benefit from combination therapy? The role of 5 alpha reductase inhibitors and alpha blockade: a reflection from MTOPS. Curr Opin Urol. 2004 Jan; 14: 17-20

150250 Desgrandchamps, F., de la Taille, A., Azzouzi, A. R., Fourmarier, M., Haillot, O., Lukacs, B. and Saussine, C. Management of non-complicated BPH: proposition of a renewed decision tree. World J Urol. 2006; 24: 367-70

101350 Desgrandchamps, F., De La Taille, A., Doublet, J. D. The management of acute urinary retention in France: a cross-sectional survey in 2618 men with benign prostatic hyperplasia. BJU Int. 2006 Apr; 97: 727-33

102090 Desgrandchamps, F., Droupy, S., Irani, J., Saussine, C., Comenducci, A. Effect of dutasteride on the symptoms of benign prostatic hyperplasia, and patient quality of life and discomfort, in clinical practice. BJU Int. 2006 Jul; 98: 83-8

123990 Desgrandchamps, F., Mongiat-Artus, P. Dosage and duration of medication for men with lower urinary tract symptoms: two questions without definitive answers. Curr Opin Urol. 2006 Jan; 16: 37-9

117240 DeVita, V. T. , Jr., Bleickardt, E. W. National Oncology Forum: perspectives for the year 2000. Cancer J. 2001 Jul-Aug; 7 Suppl 1: S2-13

155960 Devrim, E. and Durak, I. Is garlic a promising food for benign prostatic hyperplasia and prostate cancer?. Mol Nutr Food Res. 2007; 51: 1319-23

112540 Deyoung, M. P., Scheurle, D., Damania, H., Zylberberg, C., Narayanan, R. Down's syndrome-associated single minded gene as a novel tumor marker. Anticancer Res. 2002 Nov-Dec; 22: 3149-57

105130 Dhanasekaran, S. M., Dash, A., Yu, J., Maine, I. P., Laxman, B., Tomlins, S. A., Creighton, C. J., Menon, A., Rubin, M. A., Chinnaiyan, A. M. Molecular profiling of human prostate tissues: insights into gene expression patterns of prostate development during puberty. FASEB J. 2005 Feb; 19: 243-5

125710 Di Pietro, C., Celia, A., De Stefani, S., Saredi, G., Bianchi, G. Squamous cell carcinoma of the prostate. Arch Ital Urol Androl. 2006 Jun; 78: 75-6

152280 Di Pietro, V., Perruzza, I., Amorini, A. M., Balducci, A., Ceccarelli, L., Lazzarino, G., Barsotti, P., Giardina, B. and Tavazzi, B. Clinical, biochemical and molecular diagnosis of a compound homozygote for the 254 bp deletion-8 bp insertion of the APRT gene suffering from severe renal failure. Clin Biochem. 2007; 40: 73-80

104970 Di Silverio, F., Bosman, C., Salvatori, M., Albanesi, L., Proietti Pannunzi, L., Ciccariello, M., Cardi, A., Salvatori, G., Sciarra, A. Combination therapy with rofecoxib and finasteride in the treatment of men with lower urinary tract symptoms (LUTS) and benign prostatic hyperplasia (BPH). Eur Urol. 2005 Jan; 47: 72-8; discussion 78-9

112310 Di Silverio, F., Gentile, V., De Matteis, A., Mariotti, G., Giuseppe, V., Luigi, P. A., Sciarra, A. Distribution of inflammation, pre-malignant lesions, incidental carcinoma in histologically confirmed benign prostatic hyperplasia: a retrospective analysis. Eur Urol. 2003 Feb; 43: 164-75

107560 Di Silverio, F., Gentile, V., Pastore, A. L., Voria, G., Mariotti, G., Sciarra, A. Benign prostatic hyperplasia: what about a campaign for prevention?. Urol Int. 2004; 72: 179-88

127560 Di Stasi, S. M., Giannantoni, A., Stephen, R. L., Storti, L., Attisani, F., Sansalone, S., Virgili, G. Percutaneous sequential bacillus Calmette-Guerin and mitomycin C for panurothelial carcinomatosis. Can J Urol. 2005 Dec; 12: 2895-8

164390 Diana, M., Schettini, M., Gallucci, M. Complete functional exclusion of lower urinary tract with ureteral occlusion prosthesis. Radiol Med (Torino). 1999 Sep; 98: 189-90

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

160010 Diana, M., Schettini, M., Gallucci, M. Treatment of benign prostatic hyperplasia with transurethral electrovaporization of the prostate (TUVP) using Vaportrode VE-B. Two years follow-up. Minerva Urol Nefrol. 1999 Dec; 51: 191-5

161970 Diaz-Martin, M. A., Traba, M. L., De La Piedra, C., Guerrero, R., Mendez-Davila, C., De La Pena, E. G. Aminoterminal propeptide of type I collagen and bone alkaline phosphatase in the study of bone metastases associated with prostatic carcinoma. Scand J Clin Lab Invest. 1999 Apr; 59: 125-32

110360 Dicuio, M., Creti, S., Di Campli, A., Dipietro, R., Mannini, D., Nanni, G., Dahlstrand, C., Cuzzocrea, D. E. Usefulness of a prevoiding transabdominal sonographic bladder scan for uroflowmetry in patients involved in clinical studies of benign prostatic hyperplasia. J Ultrasound Med. 2003 Aug; 22: 773-6

104320 Diederich, C. J., Nau, W. H., Ross, A. B., Tyreus, P. D., Butts, K., Rieke, V., Sommer, G. Catheter-based ultrasound applicators for selective thermal ablation: progress towards MRI-guided applications in prostate. Int J Hyperthermia. 2004 Nov; 20: 739-56

164730 Dietz, H. P., McKnoulty, L., Clarke, B. Translabial color Doppler for imaging in urogynecology: a preliminary report. Ultrasound Obstet Gynecol. 1999 Aug; 14: 144-7

165510 Dietz, H. P., Wilson, P. D. The influence of bladder volume on the position and mobility of the urethrovesical junction. Int Urogynecol J Pelvic Floor Dysfunct. 1999; 10: 3-6

118520 DiLella, A. G., Toner, T. J., Austin, C. P., Connolly, B. M. Identification of genes differentially expressed in benign prostatic hyperplasia. J Histochem Cytochem. 2001 May; 49: 669-70

152060 Dimarco, D. S., Gettman, M. T., McGee, S. M., Chow, G. K., Leroy, A. J., Slezak, J., Patterson, D. E. and Segura, J. W. Long-term success of antegrade endopyelotomy compared with pyeloplasty at a single institution. J Endourol. 2006; 20: 707-12

101660 Dimitrakov, J. D. Saw palmetto for benign prostatic hyperplasia. N Engl J Med. 2006 May 4; 354: 1950-1; author reply 1950-1

161060 Dimitri, M. TURP with the new superpulsed radiofrequency energy: More than a gold standard. Eur Urol. 1999 Oct; 36: 331-4

106780 Dincel, C., Samli, M. M., Guler, C., Demirbas, M., Karalar, M. Plasma kinetic vaporization of the prostate: clinical evaluation of a new technique. J Endourol. 2004 Apr; 18: 293-8

116800 Dinh, D. T., Frauman, A. G., Casley, D. J., Johnston, C. I., Fabiani, M. E. Angiotensin AT(4) receptors in the normal human prostate and benign prostatic hyperplasia. Mol Cell Endocrinol. 2001 Nov 26; 184: 187-92

116050 Dinh, D. T., Frauman, A. G., Somers, G. R., Ohishi, M., Zhou, J., Casley, D. J., Johnston, C. I., Fabiani, M. E. Evidence for activation of the renin-angiotensin system in the human prostate: increased angiotensin II and reduced AT(1) receptor expression in benign prostatic hyperplasia. J Pathol. 2002 Feb; 196: 213-9

119220 Dinh, D. T., Frauman, A. G., Sourial, M., Casley, D. J., Johnston, C. I., Fabiani, M. E. Identification, distribution, and expression of angiotensin II receptors in the normal human prostate and benign prostatic hyperplasia. Endocrinology. 2001 Mar; 142: 1349-56

100650 DiPaola, R. S., Morton, R. A. Proven and unproven therapy for benign prostatic hyperplasia. N Engl J Med. 2006 Feb 9; 354: 632-4

101850 DiSantostefano, R. L., Biddle, A. K., Lavelle, J. P. An evaluation of the economic costs and patient-related consequences of treatments for benign prostatic hyperplasia. BJU Int. 2006 May; 97: 1007-16

103730 DiSantostefano, R. L., Biddle, A. K., Lavelle, J. P. Re: an economic evaluation of doxazosin, finasteride and combination therapy in the treatment of benign prostatic hyperplasia. Can J Urol. 2005 Feb; 12: 2508-9; author reply 2509-10

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

100050 DiSantostefano, R. L., Biddle, A. K., Lavelle, J. P. The long-term cost effectiveness of treatments for benign prostatic hyperplasia. Pharmacoeconomics. 2006; 24: 171-91

110740 Ditrolio, J., Patel, P., Watson, R. A., Irwin, R. I. An endoscopic injection device: a potential advance in the transurethral treatment of benign prostatic obstruction. BJU Int. 2003 Jul; 92: 143-5

115310 Ditrolio, J., Patel, P., Watson, R. A., Irwin, R. J. Chemo-ablation of the prostate with dehydrated alcohol for the treatment of prostatic obstruction. J Urol. 2002 May; 167: 2100-3; discussion 2103-4

164170 Dixon, J. S., Jen, P. Y., Gosling, J. A. Tyrosine hydroxylase and vesicular acetylcholine transporter are coexpressed in a high proportion of intramural neurons of the human neonatal and child urinary bladder. Neurosci Lett. 1999 Dec 31; 277: 157-60

123550 Djaladat, H., Mehrsai, A., Saraji, A., Moosavi, S., Djaladat, Y., Pourmand, G. Suprapubic prostatectomy with a novel catheter. J Urol. 2006 Jun; 175: 2083-6

114630 Djavan, B. Guidelines on benign prostatic hyperplasia: where do we stand in the new millennium?. Curr Urol Rep. 2002 Apr; 3: 91-2

119870 Djavan, B. Is transurethral microwave thermotherapy an alternative to medical therapy for patients with benign prostatic hyperplasia?. Tech Urol. 2000 Dec; 6: 300-6

110050 Djavan, B. Lower urinary tract symptoms/benign prostatic hyperplasia: fast control of the patient's quality of life. Urology. 2003 Sep; 62: 14-Jun

122640 Djavan, B., Bursa, B., Basharkhah, A., Seitz, C., Remzi, M., Ghawidel, K., Hruby, S., Marberger, M. Pretreatment prostate-specific antigen as an outcome predictor of targeted transurethral microwave thermotherapy. Urology. 2000 Jan; 55: 51-7

104900 Djavan, B., Chapple, C., Milani, S., Marberger, M. State of the art on the efficacy and tolerability of alpha1-adrenoceptor antagonists in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Urology. 2004 Dec; 64: 1081-8

130330 Djavan, B., Fong, Y. K., Harik, M., Milani, S., Reissigl, A., Chaudry, A., Anagnostou, T., Bagheri, F., Waldert, M., Kreuzer, S., Fajkovic, H., Marberger, M. Longitudinal study of men with mild symptoms of bladder outlet obstruction treated with watchful waiting for four years. Urology. 2004 Dec; 64: 1144-8

161500 Djavan, B., Ghawidel, K., Basharkhah, A., Hruby, S., Bursa, B., Marberger, M. Temporary intraurethral prostatic bridge-catheter compared with neoadjuvant and adjuvant alpha-blockade to improve early results of high-energy transurethral microwave thermotherapy. Urology. 1999 Jul; 54: 73-80

161440 Djavan, B., Lin, V., Seitz, C., Kramer, G., Kaplan, P., Richier, J., Marberger, M., McConnell, J. D. Elastin gene expression in benign prostatic hyperplasia. Prostate. 1999 Sep 1; 40: 242-7

161780 Djavan, B., Madersbacher, S., Klingler, H. C., Ghawidel, K., Basharkhah, A., Hruby, S., Seitz, C., Marberger, M. Outcome analysis of minimally invasive treatments for benign prostatic hyperplasia. Tech Urol. 1999 Mar; 5: 12-20

161900 Djavan, B., Marberger, M. A meta-analysis on the efficacy and tolerability of alpha1-adrenoceptor antagonists in patients with lower urinary tract symptoms suggestive of benign prostatic obstruction. Eur Urol. 1999; 36: 1-13

119620 Djavan, B., Marberger, M. Minimally invasive procedures as an alternative to medical management for lower urinary tract symptoms of benign prostatic hyperplasia. Curr Opin Urol. 2001 Jan; 11: 7-Jan

120140 Djavan, B., Marberger, M. Transurethral microwave thermotherapy: an alternative to medical management in patients with benign prostatic hyperplasia?. J Endourol. 2000 Oct; 14: 661-9

114670 Djavan, B., Nickel, J. C., de la Rosette, J., Abrams, P. The urologist view of BPH progression: results of an international survey. Eur Urol. 2002 May; 41: 490-6

122660 Djavan, B., Partin, A. W., Hoey, M. F., Roehrborn, C. G., Dixon, C. M., Marberger, M. Transurethral radiofrequency therapy for benign prostatic hyperplasia using a novel saline-liquid conductor: the virtual electrode. Urology. 2000 Jan; 55: 13-6

112200 Djavan, B., Remzi, M., Erne, B., Marberger, M. The pathophysiology of benign prostatic hyperplasia. Drugs Today (Barc). 2002 Dec; 38: 867-76

161200 Djavan, B., Remzi, M., Zlotta, A. R., Seitz, C., Wolfram, R., Hruby, S., Bursa, B., Schulman, C. C., Marberger, M. Combination and multivariate analysis of PSA-based parameters for prostate cancer prediction. Tech Urol. 1999 Jun; 5: 71-6

161520 Djavan, B., Seitz, C., Ghawidel, K., Basharkhah, A., Bursa, B., Hruby, S., Marberger, M. High-energy transurethral microwave thermotherapy in patients with acute urinary retention due to benign prostatic hyperplasia. Urology. 1999 Jul; 54: 18-22

112600 Djavan, B., Seitz, C., Marberger, M. Heat versus drugs in the treatment of benign prostatic hyperplasia. BJU Int. 2003 Jan; 91: 131-7

119450 Djavan, B., Seitz, C., Roehrborn, C. G., Remzi, M., Fakhari, M., Waldert, M., Basharkhah, A., Planz, B., Harik, M., Marberger, M. Targeted transurethral microwave thermotherapy versus alpha-blockade in benign prostatic hyperplasia: outcomes at 18 months. Urology. 2001 Jan; 57: 66-70

107470 Djavan, B., Waldert, M., Ghawidel, C., Marberger, M. Benign prostatic hyperplasia progression and its impact on treatment. Curr Opin Urol. 2004 Jan; 14: 45-50

117300 Djavan, B., Waldert, M., Zlotta, A., Dobronski, P., Seitz, C., Remzi, M., Borkowski, A., Schulman, C., Marberger, M. Safety and morbidity of first and repeat transrectal ultrasound guided prostate needle biopsies: results of a prospective European prostate cancer detection study. J Urol. 2001 Sep; 166: 856-60

119910 Djavan, B., Wammack, R., Ghawidel, K., Alavi, S., Hasenzagel, C., Dobronski, P., Stoklosa, A., Jakubcky, T., Borkowski, A., Marberger, M. Microwave thermotherapy in patients with chronic urinary retention. Tech Urol. 2000 Dec; 6: 278-81

122250 Djavan, B., Zlotta, A., Remzi, M., Ghawidel, K., Basharkhah, A., Schulman, C. C., Marberger, M. Optimal predictors of prostate cancer on repeat prostate biopsy: a prospective study of 1,051 men. J Urol. 2000 Apr; 163: 1144-8; discussion 1148-9

102810 Dmochowski, R. Antimuscarinic therapy in men with lower urinary tract symptoms: what is the evidence?. Curr Urol Rep. 2006 Nov; 7: 462-7

112750 Dmochowski, R. R., Staskin, D. Overactive bladder in men: special considerations for evaluation and management. Urology. 2002 Nov; 60: 56-62; discussion 62-3

135950 Do, V., Choo, R., Deboer, G., Herschorn, S., Danjoux, C., Chen, C. H., Barak, I. Urodynamic findings 3 months after radiotherapy in patients treated with conformal external beam radiotherapy for prostate carcinoma. BJU Int. 2002 Jul; 90: 62-7

153200 Dobosy, J. R., Roberts, J. L., Fu, V. X. and Jarrard, D. F. The expanding role of epigenetics in the development, diagnosis and treatment of prostate cancer and benign prostatic hyperplasia. J Urol. 2007; 177: 822-31

136290 Dobrowolski, Z. F., Jaszczynski, J., Drewniak, T., Habrat, W., Kusionowicz, J. Vascular angiographic asymmetry on three-dimensional transrectal power Doppler ultrasonography in patients with organ-confined prostate cancer. BJU Int. 2002 Apr; 89: 614-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

115360 Dobrowolski, Z., Jaszczynski, J., Drewniak, T., Habrat, W. Assessing the vascular-stromal coefficient in patients with benign prostatic hyperplasia or prostate cancer using transrectal ultrasonography and power Doppler analysis. BJU Int. 2002 Apr; 89: 601-3

106180 Doggrell, S. A. After ALLHAT: doxazosin for the treatment of benign prostatic hyperplasia. Expert Opin Pharmacother. 2004 Sep; 5: 1957-64

107150 Doggrell, S. A. Combination of finasteride and doxazosin for the treatment of benign prostatic hyperplasia. Expert Opin Pharmacother. 2004 May; 5: 1209-11

131040 Dogra, P. N., Ansari, M. S. Spinning top urethra and lower urinary tract dysfunction in a young female. ScientificWorldJournal. 2004 Jun 7; 4 Suppl 1: 108-10

102420 Dogra, P. N., Biswas, N. R., Ravi, A. K., Mani, K., Kumar, V. Comparative evaluation of Prostina and terazosin in the treatment of benign prostatic hyperplasia. J Indian Med Assoc. 2005 Feb; 103: 108-10, 112

161620 Dogru-Abbasoglu, S., Aykac-Toker, G., Kocak, T., Unluer, E., Uysal, M. Antioxidant enzyme activities and lipid peroxides in the plasma of patients with benign prostatic hyperplasia or prostate cancer are not predictive. J Cancer Res Clin Oncol. 1999 Jul; 125: 402-4

111930 Doherty, A. P. Benign prostatic hyperplasia. Hosp Med. 2003 Feb; 64: 114

151550 Dolegowska, B., Pikula, E., Safranow, K., Olszewska, M., Jakubowska, K., Chlubek, D. and Gutowski, P. Metabolism of eicosanoids and their action on renal function during ischaemia and reperfusion: the effect of alprostadil. Prostaglandins Leukot Essent Fatty Acids. 2006; 75: 403-11

134170 Doley, A., Nelligan, M. Is a negative dipstick urinalysis good enough to exclude urinary tract infection in paediatric emergency department patients?. Emerg Med (Fremantle). 2003 Feb; 15: 77-80

116490 Doll, J. A., Reiher, F. K., Crawford, S. E., Pins, M. R., Campbell, S. C., Bouck, N. P. Thrombospondin-1, vascular endothelial growth factor and fibroblast growth factor-2 are key functional regulators of angiogenesis in the prostate. Prostate. 2001 Dec 1; 49: 293-305

156200 Dong, J., Wang, H. and Wang, M. Low prevalence of hyperphosphatemia independent of residual renal function in peritoneal dialysis patients. J Ren Nutr. 2007; 17: 389-96

114060 Donnell, R. F. Changes in medicare reimbursement: impact on therapy for benign prostatic hyperplasia. Curr Urol Rep. 2002 Aug; 3: 280-4

110500 Donnell, R. F. Urethral stents in benign prostate hyperplasia. Curr Urol Rep. 2003 Aug; 4: 282-6

160080 Donovan, J. L. Use of symptom questionnaires in the assessment and follow-up of men with benign prostatic disease. Curr Opin Urol. 1999 Jan; 9: 3-7

120470 Donovan, J. L., Peters, T. J., Abrams, P., Brookes, S. T., de aa Rosette, J. J., Schafer, W. Scoring the short form ICSmaleSF questionnaire. International Continence Society. J Urol. 2000 Dec; 164: 1948-55

121690 Donovan, J. L., Peters, T. J., Neal, D. E., Brookes, S. T., Gujral, S., Chacko, K. N., Wright, M., Kennedy, L. G., Abrams, P. A randomized trial comparing transurethral resection of the prostate, laser therapy and conservative treatment of men with symptoms associated with benign prostatic enlargement: The CLasP study. J Urol. 2000 Jul; 164: 65-70

135840 Dorairajan, L. N., Talwar, M., Hemal, A. K. Stone necklace of urinary tract presenting as renal failure: one stage management. Int Urol Nephrol. 2001; 33: 321-3

138560 Dorey, G. Male patients with lower urinary tract symptoms. 1: Assessment. Br J Nurs. 2000 Apr 27-May 10; 9: 497-501

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

136410 Dorey, G. Male patients with lower urinary tract symptoms. 2: Treatment. Br J Nurs. 2000 May 11-24; 9: 553-8

133120 Dorkin, T. J., Leonard, A. S., Pickard, R. S. Can bladder outflow obstruction be diagnosed from pressure flow analysis of voiding initiated by involuntary detrusor overactivity?. J Urol. 2003 Oct; 170: 1234-6

164450 Dorschner, W., Biesold, M., Schmidt, F., Stolzenburg, J. U. The dispute about the external sphincter and the urogenital diaphragm. J Urol. 1999 Dec; 162: 1942-5

107010 Dotan, Z. A., Dotan, A., Ramon, J., Avivi, L. Altered mode of allelic replication accompanied by aneuploidy in peripheral blood lymphocytes of prostate cancer patients. Int J Cancer. 2004 Aug 10; 111: 60-6

107330 Dowding, D., Swanson, V., Bland, R., Thomson, P., Mair, C., Morrison, A., Taylor, A., Beechey, C., Simpson, R., Niven, K. The development and preliminary evaluation of a decision aid based on decision analysis for two treatment conditions: benign prostatic hyperplasia and hypertension. Patient Educ Couns. 2004 Feb; 52: 209-15

160070 Downs, T. M., O'Leary, M. P. Sexual dysfunction in patients with benign prostatic hyperplasia. Curr Opin Urol. 1999 Jan; 9: 9-14

108340 Drake, M. J., Mills, I. W., Noble, J. G. Melatonin pharmacotherapy for nocturia in men with benign prostatic enlargement. J Urol. 2004 Mar; 171: 1199-202

114520 Dreikorn, K. Phytotherapeutic agents in the treatment of benign prostatic hyperplasia. Curr Urol Rep. 2000 Aug; 1: 103-9

114860 Dreikorn, K. The role of phytotherapy in treating lower urinary tract symptoms and benign prostatic hyperplasia. World J Urol. 2002 Apr; 19: 426-35

133710 Drinnan, M. J., McIntosh, S. L., Robson, W. A., Pickard, R. S., Ramsden, P. D., Griffiths, C. J. Inter-observer agreement in the estimation of bladder pressure using a penile cuff. Neurourol Urodyn. 2003; 22: 296-300

134820 Drinnan, M. J., Pickard, R. S., Ramsden, P. D., Griffiths, C. J. Assessment of prostatic obstruction: A cuff may be enough. Neurourol Urodyn. 2003; 22: 40-4

123850 Droupy, S., Ponsot, Y., Giuliano, F. How, why and when should urologists evaluate male sexual function?. Nat Clin Pract Urol. 2006 Feb; 3: 84-94

163890 du Cailar, G., Pasquie, J. L., Ribstein, J., Mimran, A. Left ventricular adaptation to hypertension and plasma renin activity. J Hum Hypertens. 2000 Mar; 14: 181-8

108750 Du, Z., Fujiyama, C., Chen, Y., Masaki, Z. Expression of hypoxia-inducible factor 1alpha in human normal, benign, and malignant prostate tissue. Chin Med J (Engl). 2003 Dec; 116: 1936-9

127330 Dubeau, C. E. The aging lower urinary tract. J Urol. 2006 Mar; 175: S11-5

164000 Dubiel, M., Kozber, H., Debniak, B., Breborowicz, G. H., Marsal, K., Gudmundsson, S. Fetal and placental power Doppler imaging in normal and high-risk pregnancy. Eur J Ultrasound. 1999 Jul; 9: 223-30

131560 Dublin, N. Prostate biopsies--a retrospective review from the University Malaya Medical Center. Med J Malaysia. 2003 Dec; 58: 673-7

113440 Dulinska, J., Laidler, P., Labedz, M. Comparative analysis of prostatic acid phosphatase and prostate-specific antigen mRNA levels in hyperplastic prostate stimulated with steroid hormones and growth factors. Acta Biochim Pol. 2002; 49: 357-68

114250 Dull, P., Reagan, R. W. , Jr., Bahnson, R. R. Managing benign prostatic hyperplasia. Am Fam Physician. 2002 Jul 1; 66: 77-84

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

136350 Dumarey, N., Blocklet, D., Appelboom, T., Tant, L., Schoutens, A. Infecton is not specific for bacterial osteo-articular infective pathology. Eur J Nucl Med Mol Imaging. 2002 Apr; 29: 530-5

115330 Dunn, C. J., Matheson, A., Faulds, D. M. Tamsulosin: a review of its pharmacology and therapeutic efficacy in the management of lower urinary tract symptoms. Drugs Aging. 2002; 19: 135-61

139820 Dunn, M. D., Portis, A. J., Kahn, S. A., Yan, Y., Shalhav, A. L., Elbahnasy, A. M., Bercowsky, E., Hoenig, D. M., Wolf, J. S. , Jr., McDougall, E. M., Clayman, R. V. Clinical effectiveness of new stent design: randomized single-blind comparison of tail and double-pigtail stents. J Endourol. 2000 Mar; 14: 195-202

119730 Duque, J. L., Adam, R. M., Mullen, J. S., Lin, J., Richie, J. P., Freeman, M. R. Heparin-binding epidermal growth factor-like growth factor is an autocrine mediator of human prostate stromal cell growth in vitro. J Urol. 2001 Jan; 165: 284-8

137230 Durkan, G. C., Nutt, J. E., Rajjayabun, P. H., Neal, D. E., Lunec, J., Mellon, J. K. Prognostic significance of matrix metalloproteinase-1 and tissue inhibitor of metalloproteinase-1 in voided urine samples from patients with transitional cell carcinoma of the bladder. Clin Cancer Res. 2001 Nov; 7: 3450-6

116990 Dutkiewics, S. Efficacy and tolerability of drugs for treatment of benign prostatic hyperplasia. Int Urol Nephrol. 2001; 32: 423-32

106030 Dutkiewicz, S. Long-term treatment with doxazosin in men with benign prostatic hyperplasia: 10-year follow-up. Int Urol Nephrol. 2004; 36: 169-73

154380 Dutkiewicz, S. A. Re: Management of lower urinary tract symptoms secondary to benign prostatic hyperplasia with open prostatectomy: results of a contemporary series. B. Helfand, S. Mouli, R. Dedhia and K. T. McVary, J Urol 2006; 176: 2557-2561. J Urol. 2007; 177: 2398-9; author reply 2399

114980 Dutta, S., Zhang, Y., Daszkowski, D. J., Granneman, G. R., Verlinden, M. Multiple dose pharmacokinetics of fiduxosin under fasting conditions in healthy elderly male subjects. J Pharm Pharmacol. 2002 May; 54: 641-7

114910 Dutta, S., Zhang, Y., Daszkowski, D. J., Granneman, G. R., Verlinden, M. Single- and multiple-dose pharmacokinetics of fiduxosin under nonfasting conditions in healthy male subjects. J Clin Pharmacol. 2002 May; 42: 540-6

113820 Dvorkin, L., Song, K. Y. Herbs for benign prostatic hyperplasia. Ann Pharmacother. 2002 Sep; 36: 1443-52

115380 Eaton, A. C., Francis, R. N. The provision of transurethral prostatectomy on a day-case basis using bipolar plasma kinetic technology. BJU Int. 2002 Apr; 89: 534-7

112830 Eaton, C. L. Aetiology and pathogenesis of benign prostatic hyperplasia. Curr Opin Urol. 2003 Jan; 13: 10-Jul

107840 Eaton, C. L., Wells, J. M., Holen, I., Croucher, P. I., Hamdy, F. C. Serum osteoprotegerin (OPG) levels are associated with disease progression and response to androgen ablation in patients with prostate cancer. Prostate. 2004 May 15; 59: 304-10

156110 Ebelt, K., Babaryka, G., Figel, A. M., Pohla, H., Buchner, A., Stief, C. G., Eisenmenger, W., Kirchner, T., Schendel, D. J. and Noessner, E. Dominance of CD4+ lymphocytic infiltrates with disturbed effector cell characteristics in the tumor microenvironment of prostate carcinoma. Prostate. 2008; 68: 1-10

151780 Ece, A., Gozu, A., Bukte, Y., Tutanc, M. and Kocamaz, H. The effect of malnutrition on kidney size in children. Pediatr Nephrol. 2007; 22: 857-63

157060 Ecke, T. H., Schlechte, H. H., Hubsch, A., Lenk, S. V., Schiemenz, K., Rudolph, B. D. and Miller, K. TP53 mutation in prostate needle biopsies--comparison with patients follow-up. Anticancer Res. 2007; 27: 4143-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

117000 Eckhardt, M. D., van Venrooij, G. E., Boon, T. A. Interactions between prostate volume, filling cystometric estimated parameters, and data from pressure-flow studies in 565 men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Neurourol Urodyn. 2001; 20: 579-90

118510 Eckhardt, M. D., van Venrooij, G. E., Boon, T. A. Symptoms and quality of life versus age, prostate volume, and urodynamic parameters in 565 strictly selected men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Urology. 2001 Apr; 57: 695-700

116560 Eckhardt, M. D., van Venrooij, G. E., Boon, T. A. Symptoms, prostate volume, and urodynamic findings in elderly male volunteers without and with LUTS and in patients with LUTS suggestive of benign prostatic hyperplasia. Urology. 2001 Dec; 58: 966-71

119340 Eckhardt, M. D., van Venrooij, G. E., Boon, T. A. Urethral resistance factor (URA) versus Schafer's obstruction grade and Abrams-Griffiths (AG) number in the diagnosis of obstructive benign prostatic hyperplasia. Neurourol Urodyn. 2001; 20: 175-85

117540 Eckhardt, M. D., van Venrooij, G. E., van Melick, H. H., Boon, T. A. Prevalence and bothersomeness of lower urinary tract symptoms in benign prostatic hyperplasia and their impact on well-being. J Urol. 2001 Aug; 166: 563-8

112850 Eddy, B., Anderson, C. Managing benign prostate disease. Practitioner. 2002 Dec; 246: 812-5, 817-9

153860 Edgar, A. D., Levin, R., Constantinou, C. E. and Denis, L. A critical review of the pharmacology of the plant extract of Pygeum africanum in the treatment of LUTS. Neurourol Urodyn. 2007; 26: 458-63; discussion 464

150940 Edinger, M. S. and Koff, W. J. Effect of the consumption of tomato paste on plasma prostate-specific antigen levels in patients with benign prostate hyperplasia. Braz J Med Biol Res. 2006; 39: 1115-9

112960 Edwards, J. E., Moore, R. A. Finasteride in the treatment of clinical benign prostatic hyperplasia: a systematic review of randomised trials. BMC Urol. 2002 Dec 12; 2: 14

108740 Edwards, J., Mukherjee, R., Munro, A. F., Wells, A. C., Almushatat, A., Bartlett, J. M. HER2 and COX2 expression in human prostate cancer. Eur J Cancer. 2004 Jan; 40: 50-5

136910 Egawa, S., Shimura, S., Irie, A., Kitano, M., Nishiguchi, I., Kuwao, S., Hayakawa, K., Baba, S. Toxicity and health-related quality of life during and after high dose rate brachytherapy followed by external beam radiotherapy for prostate cancer. Jpn J Clin Oncol. 2001 Nov; 31: 541-7

160700 Egawa, S., Suyama, K., Takashima, R., Mizoguchi, H., Kuwao, S., Baba, S. Prospective evaluation of prostate cancer detection by prostate-specific antigen-related parameters. Int J Urol. 1999 Oct; 6: 493-501

156590 Egilmez, H., Gok, V., Oztoprak, I., Atalar, M., Cetin, A., Arslan, M., Gultekin, Y. and Solak, O. Comparison of CT-guided sclerotherapy with using 95% ethanol and 20% hypertonic saline for managing simple renal cyst. Korean J Radiol. 2007; 8: 512-9

165090 Ehren, I., Hosseini, A., Lundberg, J. O., Wiklund, N. P. Nitric oxide: a useful gas in the detection of lower urinary tract inflammation. J Urol. 1999 Aug; 162: 327-9

106530 Eisenberg, E. R., Badlani, G. H. Long-term treatment outcomes of CoreTherm microwave feedback thermotherapy. Curr Urol Rep. 2004 Aug; 5: 287-94

139550 Eke, N. Fournier's gangrene: a review of 1726 cases. Br J Surg. 2000 Jun; 87: 718-28

140360 Ekengren, J., Haendler, L., Hahn, R. G. Clinical outcome 1 year after transurethral vaporization and resection of the prostate. Urology. 2000 Feb; 55: 231-5

164360 Ekman, M., Volkmann, R., Carlsson, S. Noise reduction of renograms: a new algorithm applied to simulated renograms for evaluation of the renal retention function. Clin Physiol. 1999 Nov; 19: 482-9

160260 Ekman, P. Finasteride in the treatment of benign prostatic hypertrophy: an update. New indications for finasteride therapy. Scand J Urol Nephrol Suppl. 1999; 203: 15-20

114840 Ekstrand, V., Westermark, S., Wiksell, H., Bergman, B., Cronwall, K. Long-term clinical outcome of transurethral microwave thermotherapy (TUMT) 1991-1999 at Karolinska Hospital, Sweden. Scand J Urol Nephrol. 2002; 36: 113-8

120240 El-Alfy, M., Pelletier, G., Hermo, L. S., Labrie, F. Unique features of the basal cells of human prostate epithelium. Microsc Res Tech. 2000 Dec 1; 51: 436-46

111360 Eldar, R. Quality improvement activities in prostatectomy for benign prostatic hypertrophy. Croat Med J. 2003 Apr; 44: 244-5

163810 Eleuteri, P., Grollino, M. G., Pomponi, D., Guaglianone, S., Gallucci, M., De Vita, R. Bladder transitional cell carcinomas: a comparative study of washing and tumor bioptic samples by DNA flow cytometry and FISH analyses. Eur Urol. 2000 Mar; 37: 275-80

161590 Elgun, S., Keskinege, A., Yilmaz, E., Baltaci, S., Beduk, Y. Evaluation of serum arginase activity in benign prostatic hypertrophy and prostatic cancer. Int Urol Nephrol. 1999; 31: 95-9

140460 El-Hakim, A., Elhilali, M. M. Holmium laser enucleation of the prostate can be taught: the first learning experience. BJU Int. 2002 Dec; 90: 863-9

123630 Elhilali, M. M. Alfuzosin: an alpha1-receptor blocker for the treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia. Expert Opin Pharmacother. 2006 Apr; 7: 583-96

111020 Elhilali, M. M., Nickel, J. C. Benign prostatic hyperplasia: from A - Z. Can J Urol. 2003 Apr; 10: 1799-802

101150 Elhilali, M., Emberton, M., Matzkin, H., van Moorselaar, R. J., Hartung, R., Harving, N., Alcaraz, A., Vallancien, G. Long-term efficacy and safety of alfuzosin 10 mg once daily: a 2-year experience in 'real-life' practice. BJU Int. 2006 Mar; 97: 513-9

122690 Eliasson, T., Wagrell, L. New technologies for the surgical management of symptomatic benign prostatic enlargement: tolerability and morbidity of high energy transurethral microwave thermotherapy. Curr Opin Urol. 2000 Jan; 10: 15-7

131640 Elinav, E., Salameh-Giryes, S., Ackerman, Z., Goldschmidt, N., Nissan, A., Chajek-Shaul, T. Does any lower gastrointestinal bleeding in patients suffering from hereditary hemorrhagic telangiectasia (Osler-Weber-Rendu) necessitate a full colonic visualization?. Int J Colorectal Dis. 2004 Nov; 19: 595-8

127450 Elist, J. Effects of pollen extract preparation Prostat/Poltit on lower urinary tract symptoms in patients with chronic nonbacterial prostatitis/chronic pelvic pain syndrome: a randomized, double-blind, placebo-controlled study. Urology. 2006 Jan; 67: 60-3

139670 El-Khoby, T., Galal, N., Fenwick, A., Barakat, R., El-Hawey, A., Nooman, Z., Habib, M., Abdel-Wahab, F., Gabr, N. S., Hammam, H. M., Hussein, M. H., Mikhail, N. N., Cline, B. L., Strickland, G. T. The epidemiology of schistosomiasis in Egypt: summary findings in nine governorates. Am J Trop Med Hyg. 2000 Feb; 62: 88-99

109960 Ellerkmann, R. M., McBride, A. Management of obstructive voiding dysfunction. Drugs Today (Barc). 2003 Jul; 39: 513-40

155570 Ellinger, J., Bastian, P. J., Haan, K. I., Heukamp, L. C., Buettner, R., Fimmers, R., Mueller, S. C. and von Ruecker, A. Noncancerous PTGS2 DNA fragments of apoptotic origin in sera of prostate cancer patients qualify as diagnostic and prognostic indicators. Int J Cancer. 2008; 122: 138-43

157080 Ellinger, J., Bastian, P. J., Jurgan, T., Biermann, K., Kahl, P., Heukamp, L. C., Wernert, N., Muller, S. C. and von Ruecker, A. CpG island hypermethylation at multiple gene sites in diagnosis and prognosis of prostate cancer. Urology. 2008; 71: 161-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

110880 Elliot, S. J., Zorn, B. H., McLeod, D. G., Moul, J. W., Nyberg, L., Striker, L. J., Striker, G. E. Pentosan polysulfate decreases prostate smooth muscle proliferation and extracellular matrix turnover. Prostate Cancer Prostatic Dis. 2003; 6: 138-42

131580 Elliott, S. P., Gulati, M., Pasta, D. J., Spitalny, G. M., Kane, C. J., Yee, R., Lue, T. F. Obstructive lower urinary tract symptoms correlate with erectile dysfunction. Urology. 2004 Jun; 63: 1148-52

138310 el-Qadi, M. A., al-Zohirey, M., Hendway, A., Abdel-Rahiem, M. A., Shatat, M. A. The immunological responses in relation to egg extrusion rate and pathological changes in Schistosoma haematobium patients. J Egypt Soc Parasitol. 2000 Dec; 30: 917-28

127480 El-Sakka, A. I. Lower urinary tract symptoms in patients with erectile dysfunction: analysis of risk factors. J Sex Med. 2006 Jan; 3: 144-9

129090 El-Sakka, A. I. Lower urinary tract symptoms in patients with erectile dysfunction: is there a vascular association?. Eur Urol. 2005 Aug; 48: 319-25

108880 Elsasser-Beile, U., Gierschner, D., Jantscheff, P., Schultze-Seemann, W., Katzenwadel, A., Wetterauer, U. Different basal expression of type T1 and T2 cytokines in peripheral lymphocytes of patients with adenocarcinomas and benign hyperplasia of the prostate. Anticancer Res. 2003 Sep-Oct; 23: 4027-31

120950 Elsasser-Beile, U., Przytulski, B., Gierschner, D., Grussenmeyer, T., Katzenwadel, A., Leiber, C., Deckart, A., Wetterauer, U. Comparison of the activation status of tumor infiltrating and peripheral lymphocytes of patients with adenocarcinomas and benign hyperplasia of the prostate. Prostate. 2000 Sep 15; 45: 7-Jan

125470 El-Sayed, M., Badwy, W., Bakr, A. Rapid hybridization probe assay and PCR for detection of Chlamydia trachomatis in urinary tract infections: a prospective study. Curr Microbiol. 2006 Nov; 53: 379-83

164210 Elser, D. M., London, W., Fantl, J. A., McBride, M. A., Beck, R. P. A comparison of urethral profilometry using microtip and fiberoptic catheters. Int Urogynecol J Pelvic Floor Dysfunct. 1999; 10: 371-4

139370 El-Sherbiny, M. T., El-Mekresh, M. H., El-Baz, M. A., Ghoneim, M. A. Paediatric lower urinary tract rhabdomyosarcoma: a single-centre experience of 30 patients. BJU Int. 2000 Aug; 86: 260-7

132230 Eltorai, I. M., Hovey, R. M., Ronningen, L. D., Montroy, R. E., Gutierrez, P. A., Aesquivel, L. Giant urinoma in spinal cord injury: report of two cases. J Spinal Cord Med. 2003 Winter; 26: 404-8

117750 Eltze, M., Boer, R., Michel, M. C., Hein, P., Testa, R., Ulrich, W. R., Kolassa, N., Sanders, K. H. In vitro and in vivo uroselectivity of B8805-033, an antagonist with high affinity at prostatic alpha1A- vs. alpha1B- and alpha1D-adrenoceptors. Naunyn Schmiedebergs Arch Pharmacol. 2001 Jun; 363: 649-62

154300 Elzayat, E. A. and Elhilali, M. M. Holmium laser enucleation of the prostate (HoLEP): long-term results, reoperation rate, and possible impact of the learning curve. Eur Urol. 2007; 52: 1465-71

100700 Elzayat, E. A., Habib, E. I., Elhilali, M. M. Holmium laser enucleation of prostate for patients in urinary retention. Urology. 2005 Oct; 66: 789-93

101040 Elzayat, E. A., Habib, E. I., Elhilali, M. M. Holmium laser enucleation of the prostate: a size-independent new 'gold standard'. Urology. 2005 Nov; 66: 108-13

101510 Emberton, M. Definition of at-risk patients: dynamic variables. BJU Int. 2006 Apr; 97 Suppl 2: 12-5; discussion 21-2

157280 Emberton, M. and Fitzpatrick, J. M. The Reten-World survey of the management of acute urinary retention: preliminary results. BJU Int. 2008; 101 Suppl 3: 27-32

112140 Emberton, M., Andriole, G. L., de la Rosette, J., Djavan, B., Hoefner, K., Vela Navarrete, R., Nordling, J., Roehrborn, C., Schulman, C., Teillac, P., Tubaro, A., Nickel, J. C. Benign prostatic hyperplasia: a progressive disease of aging men. Urology. 2003 Feb; 61: 267-73

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

101780 Emberton, M., Elhilali, M., Matzkin, H., Harving, N., van Moorselaar, J., Hartung, R., Alcaraz, A., Vallancien, G. Symptom deterioration during treatment and history of AUR are the strongest predictors for AUR and BPH-related surgery in men with LUTS treated with alfuzosin 10 mg once daily. Urology. 2005 Aug; 66: 316-22

102470 Emberton, M., Lukacs, B., Matzkin, H., Alcaraz, A., Elhilali, M., Vallancien, G. Response to daily 10 mg alfuzosin predicts acute urinary retention and benign prostatic hyperplasia related surgery in men with lower urinary tract symptoms. J Urol. 2006 Sep; 176: 1051-6

154940 Emberton, M., Zinner, N., Michel, M. C., Gittelman, M., Chung, M. K. and Madersbacher, S. Managing the progression of lower urinary tract symptoms/benign prostatic hyperplasia: therapeutic options for the man at risk. BJU Int. 2007; 100: 249-53

123620 Engelmann, U., Walther, C., Bondarenko, B., Funk, P., Schlafke, S. Efficacy and safety of a combination of sabal and urtica extract in lower urinary tract symptoms. A randomized, double-blind study versus tamsulosin. Arzneimittelforschung. 2006; 56: 222-9

105350 Engl, T., Beecken, W. D., Wolfram, M., Jonas, D., Blaheta, R. Uropharmacology: current and future strategies in the treatment of erectile dysfunction and benign prostate hyperplasia. Int J Clin Pharmacol Ther. 2004 Oct; 42: 527-33

129640 Engstrom, G., Henningsohn, L., Steineck, G., Leppert, J. Self-assessed health, sadness and happiness in relation to the total burden of symptoms from the lower urinary tract. BJU Int. 2005 Apr; 95: 810-5

130820 Engstrom, G., Walker-Engstrom, M. L., Henningsohn, L., Loof, L., Leppert, J. Prevalence of distress and symptom severity from the lower urinary tract in men: a population-based study with the DAN-PSS questionnaire. Fam Pract. 2004 Dec; 21: 617-22

134640 Engstrom, G., Walker-Engstrom, M. L., Loof, L., Leppert, J. Prevalence of three lower urinary tract symptoms in men-a population-based study. Fam Pract. 2003 Feb; 20: 10-Jul

106140 Enokida, H., Shiina, H., Igawa, M., Ogishima, T., Kawakami, T., Bassett, W. W., Anast, J. W., Li, L. C., Urakami, S., Terashima, M., Verma, M., Kawahara, M., Nakagawa, M., Kane, C. J., Carroll, P. R., Dahiya, R. CpG hypermethylation of MDR1 gene contributes to the pathogenesis and progression of human prostate cancer. Cancer Res. 2004 Sep 1; 64: 5956-62

101180 Enokida, H., Shiina, H., Urakami, S., Igawa, M., Ogishima, T., Li, L. C., Kawahara, M., Nakagawa, M., Kane, C. J., Carroll, P. R., Dahiya, R. Multigene methylation analysis for detection and staging of prostate cancer. Clin Cancer Res. 2005 Sep 15; 11: 6582-8

103620 Enokida, H., Shiina, H., Urakami, S., Igawa, M., Ogishima, T., Pookot, D., Li, L. C., Tabatabai, Z. L., Kawahara, M., Nakagawa, M., Kane, C. J., Carroll, P. R., Dahiya, R. Ethnic group-related differences in CpG hypermethylation of the GSTP1 gene promoter among African-American, Caucasian and Asian patients with prostate cancer. Int J Cancer. 2005 Aug 20; 116: 174-81

100470 Enokida, H., Shiina, H., Urakami, S., Terashima, M., Ogishima, T., Li, L. C., Kawahara, M., Nakagawa, M., Kane, C. J., Carroll, P. R., Igawa, M., Dahiya, R. Smoking influences aberrant CpG hypermethylation of multiple genes in human prostate carcinoma. Cancer. 2006 Jan 1; 106: 79-86

121370 Epperly, T. D., Moore, K. E. Health issues in men: part I: Common genitourinary disorders. Am Fam Physician. 2000 Jun 15; 61: 3657-64

103630 Ercole, B., Lee, C., Best, S., Fallon, E., Skenazy, J., Monga, M. Minimally invasive therapy for benign prostatic hyperplasia: practice patterns in Minnesota. J Endourol. 2005 Mar; 19: 159-62

161390 Erdagi, U., Akman, R. Y., Sargin, S. Y., Yazicioglu, A. Transurethral electrovaporization of the prostate versus transurethral resection of the prostate: a prospective randomized study. Arch Ital Urol Androl. 1999 Jun; 71: 125-30

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

100380 Erdem, E., Tunckiran, A., Acar, D., Kanik, E. A., Akbay, E., Ulusoy, E. Is catheter cause of subjectivity in sensations perceived during filling cystometry?. Urology. 2005 Nov; 66: 1000-3; discussion 1003-4

132450 Erdogan, O., Oner, A., Demircin, G., Bulbul, M., Memis, L., Uner, C., Kiper, N. A boy with consecutive development of SLE and Wegener granulomatosis. Pediatr Nephrol. 2004 Apr; 19: 438-41

113060 Erdogru, T., Ciftcioglu, M. A., Emreoglu, I., Usta, M. F., Koksal, T., Ozbilim, G., Gulkesen, K. H., Baykara, M. Apoptotic and proliferative index after Alpha-1-adrenoceptor antagonist and/or finasteride treatment in benign prostatic hyperplasia. Urol Int. 2002; 69: 287-92

113770 Erdogru, T., Gulkesen, K. H., Kukul, E., Yalcinkaya, M., Karpuzoglu, G., Baykara, M. Increased bladder apoptosis with alpha-1 adrenoceptor antagonists in benign prostatic hyperplasia. Scand J Urol Nephrol. 2002; 36: 188-93

137400 Eri, L. M., Sivertsen, S., Nagelhus, J. The impact of participation in a study of medical treatment of lower urinary tract symptoms on the incidence of prostate surgery. World J Urol. 2001 Aug; 19: 256-8

121180 Eri, L. M., Svindland, A. Can prostate epithelial content predict response to hormonal treatment of patients with benign prostatic hyperplasia?. Urology. 2000 Aug 1; 56: 261-5

118960 Eri, L. M., Svindland, A., Tveter, K. J. The effect of bicalutamide on prostate histology. Prostate. 2001 Mar 1; 46: 275-80

111890 Eri, L. M., Thomassen, H., Brennhovd, B., Haheim, L. L. Accuracy and repeatability of prostate volume measurements by transrectal ultrasound. Prostate Cancer Prostatic Dis. 2002; 5: 273-8

118830 Eri, L. M., Wessel, N., Berge, V. Test-retest variation of pressure flow parameters in men with bladder outlet obstruction. J Urol. 2001 Apr; 165: 1188-92

133910 Erichsen, C. TUMT 2.0: results three months and three years after treatment. Scand J Urol Nephrol. 2003; 37: 31-4

160220 Ernst, E. Herbal medications for common ailments in the elderly. Drugs Aging. 1999 Dec; 15: 423-8

116200 Ernst, E. The risk-benefit profile of commonly used herbal therapies: Ginkgo, St. John's Wort, Ginseng, Echinacea, Saw Palmetto, and Kava. Ann Intern Med. 2002 Jan 1; 136: 42-53

163700 Erol, A., Baskin, L. S., Li, Y. W., Liu, W. H. Anatomical studies of the urethral plate: why preservation of the urethral plate is important in hypospadias repair. BJU Int. 2000 Apr; 85: 728-34

129280 Errando, C., Batista, J. E., Caparros, J., Arano, P., Villavicencio, H. Is bladder cycling useful in the urodynamic evaluation previous to renal transplantation?. Urol Int. 2005; 74: 341-5

139100 Errando, C., Batista, J. E., Caparros, J., Vicente, J., Arano, P. Urodynamic evaluation and management prior to renal transplantation. Eur Urol. 2000 Oct; 38: 415-8

150970 Erturhan, S., Erbagci, A., Seckiner, I., Yagci, F. and Ustun, A. Plasmakinetic resection of the prostate versus standard transurethral resection of the prostate: a prospective randomized trial with 1-year follow-up. Prostate Cancer Prostatic Dis. 2007; 10: 97-100

127110 Eryildirim, B., Tarhan, F., Kuyumcuoglu, U., Erbay, E., Pembegul, N. Position-related changes in uroflowmetric parameters in healthy young men. Neurourol Urodyn. 2006; 25: 249-51

135570 Eshed, I., Witzling, M. The role of unenhanced helical CT in the evaluation of suspected renal colic and atypical abdominal pain in children. Pediatr Radiol. 2002 Mar; 32: 205-8

165470 Eshleman, A. J., Carmolli, M., Cumbay, M., Martens, C. R., Neve, K. A., Janowsky, A. Characteristics of drug interactions with recombinant biogenic amine transporters expressed in the same cell type. J Pharmacol Exp Ther. 1999 May; 289: 877-85

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

113120 Esilevskii, Y. M. Novel approaches to the diagnostics and treatment of chronic prostatic diseases. Crit Rev Biomed Eng. 2001; 29: 645-59

113240 Espana, F., Martinez, M., Royo, M., Estelles, A., Alapont, J. M., Navarro, S., Aznar, J., Jimenez-Cruz, J. F. Changes in molecular forms of prostate-specific antigen during treatment with finasteride. BJU Int. 2002 Nov; 90: 672-7

152190 Esteves, F. P., Taylor, A., Manatunga, A., Folks, R. D., Krishnan, M. and Garcia, E. V. 99mTc-MAG3 renography: normal values for MAG3 clearance and curve parameters, excretory parameters, and residual urine volume. AJR Am J Roentgenol. 2006; 187: W610-7

157150 Evan, A. P., Coe, F. L., Gillen, D., Lingeman, J. E., Bledsoe, S. and Worcester, E. M. Renal intratubular crystals and hyaluronan staining occur in stone formers with bypass surgery but not with idiopathic calcium oxalate stones. Anat Rec (Hoboken). 2008; 291: 325-34

109700 Evans, H. C., Goa, K. L. Dutasteride. Drugs Aging. 2003; 20: 905-16; discussion 917-8

111610 Evans, H. S., Moller, H. Recent trends in prostate cancer incidence and mortality in southeast England. Eur Urol. 2003 Apr; 43: 337-41

150340 Evenepoel, P., Bammens, B., Verbeke, K. and Vanrenterghem, Y. Superior dialytic clearance of beta(2)-microglobulin and p-cresol by high-flux hemodialysis as compared to peritoneal dialysis. Kidney Int. 2006; 70: 794-9

139140 Everaert, K., De Ridder, D., Baert, L., Oosterlinck, W., Wyndaele, J. J. Patient satisfaction and complications following sacral nerve stimulation for urinary retention, urge incontinence and perineal pain: a multicenter evaluation. Int Urogynecol J Pelvic Floor Dysfunct. 2000; 11: 231-5; discussion 236

134200 Everaert, K., Delanghe, J., Vanderkelen, M., Cornelis, K., De Wachter, S., Viaene, A., De Ruyck, E., Clarysse, B., Oosterlinck, W. Urinary plasma protein patterns in acute prostatitis. Clin Chem Lab Med. 2003 Jan; 41: 79-84

133370 Evliyaoglu, Y., Burgut, R. Lower urinary tract symptoms, pain and quality of life assessment in chronic non-bacterial prostatitis patients treated with alpha-blocking agent doxazosin; versus placebo. Int Urol Nephrol. 2002; 34: 351-6

109890 Faas, F. H., Dang, A. Q., White, J., Schaefer, R. F., Johnson, D. E. Decreased prostatic arachidonic acid in human prostatic carcinoma. BJU Int. 2003 Oct; 92: 551-4

119250 Faas, F. H., Dang, A. Q., White, J., Schaefer, R., Johnson, D. Increased prostatic lysophosphatidylcholine acyltransferase activity in human prostate cancer: a marker for malignancy. J Urol. 2001 Feb; 165: 463-8

114390 Fagelman, E., Lowe, F. C. Herbal medications in the treatment of benign prostatic hyperplasia (BPH). Urol Clin North Am. 2002 Feb; 29: 23-9, vii

154730 Falsaperla, M., Cindolo, L., Saita, A., Polara, A., Bonaccorsi, A., Scavuzzo, A., Motta, M. and Morgia, G. Transurethral resection of prostate: technical progress by bipolar Gyrus plasma-kinetic tissue management system. Minerva Urol Nefrol. 2007; 59: 125-9

134150 Falsaperla, M., Morgia, G., Giammusso, B., Condorelli, S. V., Saita, A., Marchese, F., Spampinato, A., Motta, M. Role of Ca 15-3 in patients with biochemically suspected prostate cancer and multiple negative ultrasound-guided prostate biopsies. Prostate Cancer Prostatic Dis. 2003; 6: 45-9

135390 Famularo, G., De Simone, C. Nephrotoxicity and purpura associated with levofloxacin. Ann Pharmacother. 2002 Sep; 36: 1380-2

154700 Fang, Q., Song, B., Li, W., Lu, G., Jin, X., Zhang, X. and Fan, R. Role of UPP in evaluating bladder outlet obstruction due to benign prostatic enlargement. Neurourol Urodyn. 2007; 26: 842-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

108130 Faramarzi-Roques, R., Calvet, C., Gateau, T., Ballanger, P. H. Surgical treatment of bladder diverticula: laparoscopic approach. J Endourol. 2004 Feb; 18: 69-72

156540 Faria, P. C., Saba, K., Neves, A. F., Cordeiro, E. R., Marangoni, K., Freitas, D. G. and Goulart, L. R. Transforming growth factor-beta 1 gene polymorphisms and expression in the blood of prostate cancer patients. Cancer Invest. 2007; 25: 726-32

160670 Farnsworth, W. E. Estrogen in the etiopathogenesis of BPH. Prostate. 1999 Dec 1; 41: 263-74

116790 Fawzy, A. Current issues and reported findings from the National Survey on Benign Prostatic Hyperplasia. Int J Clin Pract Suppl. 2001 Sep; : 2-22

161270 Fawzy, A., Hendry, A., Cook, E., Gonzalez, F. Long-term (4 year) efficacy and tolerability of doxazosin for the treatment of concurrent benign prostatic hyperplasia and hypertension. Int J Urol. 1999 Jul; 6: 346-54

135410 Featherstone, K., Donovan, J. L. 'Why don't they just tell me straight, why allocate it?' The struggle to make sense of participating in a randomised controlled trial. Soc Sci Med. 2002 Sep; 55: 709-19

100630 Federman, D. G. Finasteride: middle-age cure-all for alopecia and benign prostatic hyperplasia?. Mayo Clin Proc. 2006 Feb; 81: 267; author reply 267-8

150810 Feinstein, S., Becker-Cohen, R., Rinat, C. and Frishberg, Y. Hyperphosphatemia is prevalent among children with nephrotic syndrome and normal renal function. Pediatr Nephrol. 2006; 21: 1406-12

120400 Feneley, M. R., Landis, P., Simon, I., Metter, E. J., Morrell, C. H., Carter, H. B., Walsh, P. C. Today men with prostate cancer have larger prostates. Urology. 2000 Nov 1; 56: 839-42

136160 Feng, A. H., Kaar, S., Elder, J. S. Influence of enterocystoplasty on linear growth in children with exstrophy. J Urol. 2002 Jun; 167: 2552-5; discussion 2555

150510 Feng, Y., Green, B., Duffull, S. B., Kane-Gill, S. L., Bobek, M. B. and Bies, R. R. Development of a dosage strategy in patients receiving enoxaparin by continuous intravenous infusion using modelling and simulation. Br J Clin Pharmacol. 2006; 62: 165-76

153190 Fenter, T. C., Runken, M. C., Black, L. and Eaddy, M. Finasteride versus dutasteride: a real-world economic evaluation. Am J Manag Care. 2007; 13 Suppl 1: S23-8

136250 Fernandez, O. Mechanisms and current treatments of urogenital dysfunction in multiple sclerosis. J Neurol. 2002 Jan; 249: 8-Jan

161610 Fernandez, P. L., Arce, Y., Farre, X., Martinez, A., Nadal, A., Rey, M. J., Peiro, N., Campo, E., Cardesa, A. Expression of p27/Kip1 is down-regulated in human prostate carcinoma progression. J Pathol. 1999 Apr; 187: 563-6

153000 Fernando, H., Thota, S. S., Burtt, G., Waterfall, N. and Husain, I. Importance of red patches diagnosed in cystoscopy for haematuria and lower urinary tract symptoms. Postgrad Med J. 2007; 83: 62-3

161030 Ferrer, F. A., Miller, L. J., Lindquist, R., Kowalczyk, P., Laudone, V. P., Albertsen, P. C., Kreutzer, D. L. Expression of vascular endothelial growth factor receptors in human prostate cancer. Urology. 1999 Sep; 54: 567-72

104440 Ferretti, S., Azzolini, N., Barbieri, A., Frattini, A., Cortellini, P. Randomized comparison of loops for transurethral resection of the prostate: preliminary results. J Endourol. 2004 Nov; 18: 897-900

128100 Ferrier, K., Campbell, A., Yee, B., Richards, M., O'Meeghan, T., Weatherall, M., Neill, A. Sleep-disordered breathing occurs frequently in stable outpatients with congestive heart failure. Chest. 2005 Oct; 128: 2116-22

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

100490 Ferrieu-Weisbuch, C., Michel, S., Collomb-Clerc, E., Pothion, C., Deleage, G., Jolivet-Reynaud, C. Characterization of prostate-specific antigen binding peptides selected by phage display technology. J Mol Recognit. 2006 Jan-Feb; 19: 20-Oct

104500 Festuccia, C., Angelucci, A., Gravina, G. L., Muzi, P., Vicentini, C., Bologna, M. Effects of 5 alpha reductase inhibitors on androgen-dependent human prostatic carcinoma cells. J Cancer Res Clin Oncol. 2005 Apr; 131: 243-54

120580 Ficarra, V., Righetti, R., D'Amico, A., Pilloni, S., Balzarro, M., Schiavone, D., Malossini, G., Mobilio, G. General state of health and psychological well-being in patients after surgery for urological malignant neoplasms. Urol Int. 2000; 65: 130-4

117470 Ficazzola, M. A., Fraiman, M., Gitlin, J., Woo, K., Melamed, J., Rubin, M. A., Walden, P. D. Antiproliferative B cell translocation gene 2 protein is down-regulated post-transcriptionally as an early event in prostate carcinogenesis. Carcinogenesis. 2001 Aug; 22: 1271-9

151250 Ficek, R., Kokot, F., Chudek, J., Adamczak, M., Ficek, J. and Wiecek, A. Plasma concentrations of tumor necrosis factor alpha may predict the outcome of patients with acute renal failure. Kidney Blood Press Res. 2006; 29: 203-9

165490 Filbeck, T., Roessler, W., Knuechel, R., Straub, M., Kiel, H. J., Wieland, W. F. Clinical results of the transurethreal resection and evaluation of superficial bladder carcinomas by means of fluorescence diagnosis after intravesical instillation of 5-aminolevulinic acid. J Endourol. 1999 Mar; 13: 117-21

115800 Filella, X., Alcover, J., Corral, J. M., Molina, R., Beardo, P., Ballesta, A. M. Free to complexed PSA ratio in differentiating benign prostate hyperplasia from prostate cancer. Anticancer Res. 2001 Sep-Oct; 21: 3717-20

122820 Filella, X., Alcover, J., Molina, R., Corral, J. M., Carretero, P., Ballesta, A. M. Measurement of complexed PSA in the differential diagnosis between prostate cancer and benign prostate hyperplasia. Prostate. 2000 Feb 15; 42: 181-5

153530 Filella, X., Alcover, J., Molina, R., Luque, P., Corral, J. M., Auge, J. M. and Coca, F. Usefulness of proprostate-specific antigen in the diagnosis of prostate cancer. Anticancer Res. 2007; 27: 607-10

160560 Filella, X., Alcover, J., Quinto, L., Molina, R., Bosch-Capblanch, X., Carretero, P., Ballesta, A. M. Evaluation of a multivariate prostate-specific antigen and percentage of free prostate-specific antigen logistic regression model in the diagnosis of prostate cancer. Tumour Biol. 1999 Nov-Dec; 20: 312-8

103920 Filella, X., Truan, D., Alcover, J., Gutierrez, R., Molina, R., Coca, F., Ballesta, A. M. Complexed prostate-specific antigen for the detection of prostate cancer. Anticancer Res. 2004 Nov-Dec; 24: 4181-5

107030 Filella, X., Truan, D., Alcover, J., Quinto, L., Molina, R., Luque, P., Coca, F., Ballesta, A. M. Comparison of several combinations of free, complexed, and total PSA in the diagnosis of prostate cancer in patients with urologic symptoms. Urology. 2004 Jun; 63: 1100-3; discussion 1103-4

152310 Filippi, S., Morelli, A., Sandner, P., Fibbi, B., Mancina, R., Marini, M., Gacci, M., Vignozzi, L., Vannelli, G. B., Carini, M., Forti, G. and Maggi, M. Characterization and functional role of androgen-dependent PDE5 activity in the bladder. Endocrinology. 2007; 148: 1019-29

154840 Fine, S. W. Neuroendocrine lesions of the genitourinary tract. Adv Anat Pathol. 2007; 14: 286-96

151070 Finkelstein, J., Joshi, A. and Hise, M. K. Association of physical activity and renal function in subjects with and without metabolic syndrome: a review of the Third National Health and Nutrition Examination Survey (NHANES III). Am J Kidney Dis. 2006; 48: 372-82

107900 Finkelstein, L. H. Benign prostatic hyperplasia: medical management considering sexual function and prostate cancer. J Am Osteopath Assoc. 2004 Feb; 104: 1 p preceding S1

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

121010 Finne, P., Auvinen, A., Koistinen, H., Zhang, W. M., Maattanen, L., Rannikko, S., Tammela, T., Seppala, M., Hakama, M., Stenman, U. H. Insulin-like growth factor I is not a useful marker of prostate cancer in men with elevated levels of prostate-specific antigen. J Clin Endocrinol Metab. 2000 Aug; 85: 2744-7

150360 Fischer, T., Filimonow, S., Dieckhofer, J., Slowinski, T., Muhler, M., Lembcke, A., Budde, K., Neumayer, H. H., Ebeling, V., Giessing, M., Thomas, A. and Morgera, S. Improved diagnosis of early kidney allograft dysfunction by ultrasound with echo enhancer--a new method for the diagnosis of renal perfusion. Nephrol Dial Transplant. 2006; 21: 2921-9

139810 Fitzpatrick, J. M. Facts and future lines of research in lower urinary tract symptoms in men and women: an overview of the role of alpha1-adrenoreceptor antagonists. BJU Int. 2000 Apr; 85 Suppl 2: 5-Jan

101550 Fitzpatrick, J. M. The natural history of benign prostatic hyperplasia. BJU Int. 2006 Apr; 97 Suppl 2: 3-6; discussion 21-2

120870 Fitzpatrick, J. M. Will laser replace TURP for the treatment of benign prostatic hyperplasia?. Lancet. 2000 Jul 29; 356: 357-8

104140 Fitzpatrick, J. M., Desgrandchamps, F. The clinical efficacy and tolerability of doxazosin standard and gastrointestinal therapeutic system for benign prostatic hyperplasia. BJU Int. 2005 Mar; 95: 575-9

109610 Fixemer, T., Wissenbach, U., Flockerzi, V., Bonkhoff, H. Expression of the Ca2+-selective cation channel TRPV6 in human prostate cancer: a novel prognostic marker for tumor progression. Oncogene. 2003 Oct 30; 22: 7858-61

113530 Flack, J. M. The effect of doxazosin on sexual function in patients with benign prostatic hyperplasia, hypertension, or both. Int J Clin Pract. 2002 Sep; 56: 527-30

150860 Fleshner, N. and Kulkarni, G. Should finasteride be used to prevent prostate cancer?. Curr Treat Options Oncol. 2006; 7: 346-54

102450 Fletcher, S. G., Clark, S. J., Overstreet, D. L., Steers, W. D. An improved approach to followup care for the urological patient: drop-in group medical appointments. J Urol. 2006 Sep; 176: 1122-6; discussion 1126

165230 Fliser, D., Bischoff, I., Hanses, A., Block, S., Joest, M., Ritz, E., Mutschler, E. Renal handling of drugs in the healthy elderly. Creatinine clearance underestimates renal function and pharmacokinetics remain virtually unchanged. Eur J Clin Pharmacol. 1999 May; 55: 205-11

134710 Flisser, A. J., Blaivas, J. G. Role of cystometry in evaluating patients with overactive bladder. Urology. 2002 Nov; 60: 33-42; discussion 42

119940 Floratos, D. L., Alivizatos, G. J., Debruyne, F. M., de la Rosette, J. J. Transurethral microwave thermotherapy in the armamentarium of therapeutic modalities for benign prostatic hyperplasia. Tech Urol. 2000 Dec; 6: 256-61

122000 Floratos, D. L., de la Rosette, J. J. The value of urodynamics in laser prostatectomy. Eur Urol. 2000 May; 37: 509-16

138510 Floratos, D. L., de La Rosette, J. M. Heat treatment of the prostate: where do we stand in 2000?. Curr Opin Urol. 2001 Jan; 11: 35-41

137900 Floratos, D. L., Kiemeney, L. A., Rossi, C., Kortmann, B. B., Debruyne, F. M., de La Rosette, J. J. Long-term followup of randomized transurethral microwave thermotherapy versus transurethral prostatic resection study. J Urol. 2001 May; 165: 1533-8

138410 Floratos, D. L., Sedelaar, J. P., Kortmann, B. B., Aarnink, R. G., Wijkstra, H., Debruyne, F. M., de la Rosette, J. J. Intra-prostatic vasculature studies: can they predict the outcome of transurethral microwave thermotherapy for the management of bladder outflow obstruction?. Prostate. 2001 Feb 15; 46: 200-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

139130 Floratos, D. L., Sonke, G. S., Francisca, E. A., Kiemeney, L. A., Debruyne, F. M., de la Rosette, J. J. Long-term follow-up of laser treatment for lower urinary tract symptoms suggestive of bladder outlet obstruction. Urology. 2000 Oct 1; 56: 604-9

119510 Floratos, D. L., Sonke, G. S., Francisca, E. A., Kiemeney, L. A., Kortmann, B. B., Debruyne, F. M., de la Rosette, J. J. High energy transurethral microwave thermotherapy for the treatment of patients in urinary retention. J Urol. 2000 May; 163: 1457-60

137570 Flyger, H. L., Kallestrup, E. B., Mortensen, S. O. Validation of a computer version of the patient-administered Danish prostatic symptom score questionnaire. Scand J Urol Nephrol. 2001 Jun; 35: 196-9

113720 Foley, C. L., Bott, S. R., Arya, M., Kirby, R. S. Benign prostatic hyperplasia: solutions to an ageing problem. Hosp Med. 2002 Aug; 63: 460-4

107220 Foley, C. L., Bott, S. R., Shergill, I. S., Kirby, R. S. An update on the use of 5alpha-reductase inhibitors. Drugs Today (Barc). 2004 Mar; 40: 213-23

112790 Foley, C. L., Kirby, R. S. 5 alpha-reductase inhibitors: what's new?. Curr Opin Urol. 2003 Jan; 13: 31-7

108390 Foley, C. L., Taylor, C., Kirby, R. S. Counting the cost of treating benign prostatic hyperplasia. BJU Int. 2004 Feb; 93: 250-2

122940 Foley, S. J., Bailey, D. M. Microvessel density in prostatic hyperplasia. BJU Int. 2000 Jan; 85: 70-3

122750 Foley, S. J., Soloman, L. Z., Wedderburn, A. W., Kashif, K. M., Summerton, D., Basketter, V., Holmes, S. A. A prospective study of the natural history of hematuria associated with benign prostatic hyperplasia and the effect of finasteride. J Urol. 2000 Feb; 163: 496-8

104960 Fong, Y. K., Milani, S., Djavan, B. Natural history and clinical predictors of clinical progression in benign prostatic hyperplasia. Curr Opin Urol. 2005 Jan; 15: 35-8

104950 Fong, Y. K., Milani, S., Djavan, B. Role of phytotherapy in men with lower urinary tract symptoms. Curr Opin Urol. 2005 Jan; 15: 45-8

139380 Fontaine, E., Leaver, R., Woodhouse, C. R. The effect of intestinal urinary reservoirs on renal function: a 10-year follow-up. BJU Int. 2000 Aug; 86: 195-8

139840 Fossa, S. D., Curran, D., Aaronson, N. K., Keuppens, F., Kliment, J., Robinson, M. R., DeReijke, T. M., Hetherington, J., Kil, P. J., Rea, L. A. Quality of life of patients with newly diagnosed poor prognosis M1 prostate cancer undergoing orchiectomy without or with mitomycin C. Results from the EORTC Phase-III trial 30893. Eur Urol. 2000 May; 37: 541-51

120560 Foster, C. S. Pathology of benign prostatic hyperplasia. Prostate Suppl. 2000; 9: 14-Apr

156100 Fotiou, K., Vaiopoulos, G., Lilakos, K., Giannopoulos, A., Mandalenaki, K., Marinos, G., Koritsiadis, G., Sourdis, J., Konstantinidou, E. and Konstantopoulos, K. Serum ceruloplasmin as a marker in prostate cancer. Minerva Urol Nefrol. 2007; 59: 407-11

104180 Fowler, C., McAllister, W., Plail, R., Karim, O., Yang, Q. Randomised evaluation of alternative electrosurgical modalities to treat bladder outflow obstruction in men with benign prostatic hyperplasia. Health Technol Assess. 2005 Feb; 9: iii-iv, 1-30

155590 Fox, K. A., Bassand, J. P., Mehta, S. R., Wallentin, L., Theroux, P., Piegas, L. S., Valentin, V., Moccetti, T., Chrolavicius, S., Afzal, R. and Yusuf, S. Influence of renal function on the efficacy and safety of fondaparinux relative to enoxaparin in non ST-segment elevation acute coronary syndromes. Ann Intern Med. 2007; 147: 304-10

102180 Fracalanza, S., Prayer-Galetti, T., Pinto, F., Navaglia, F., Sacco, E., Ciaccia, M., Plebani, M., Pagano, F., Basso, D. Plasma chromogranin A in patients with prostate cancer improves the diagnostic efficacy of free/total prostate-specific antigen determination. Urol Int. 2005; 75: 57-61

120040 Francisca, E. A., d'Ancona, F. C., Hendriks, J. C., Kiemeney, L. A., Debruyne, F. M., de La Rosette, J. J. A randomized study comparing high-energy TUMT to TURP: quality-of-life results. Eur Urol. 2000 Nov; 38: 569-75

160610 Francisca, E. A., Keijzers, G. B., d'Ancona, F. C., Debruyne, F. M., de la Rosette, J. J. Lower-energy thermotherapy in the treatment of benign prostatic hyperplasia: long-term follow-up results of a multicenter international study. World J Urol. 1999 Oct; 17: 279-84

121550 Francisca, E. A., Kortmann, B. B., Floratos, D. L., Kiemeney, L. A., Debruyne, F. M., de la Rosette, J. J. Tolerability of 3.5 versus 2.5 high-energy transurethral microwave thermotherapy. Eur Urol. 2000 Jul; 38: 59-63

131570 Franco, G., De Nunzio, C., Minardi, V., Rocchegiani, A., Iori, F., Leonardo, C., Laurenti, C. Patients with bladder outlet obstruction who refuse treatment show no clinical and urodynamic change after long-term follow-up. Arch Ital Urol Androl. 2004 Mar; 76: 10-Jun

121630 Franco, O. E., Arima, K., Yanagawa, M., Kawamura, J. The usefulness of power Doppler ultrasonography for diagnosing prostate cancer: histological correlation of each biopsy site. BJU Int. 2000 Jun; 85: 1049-52

118930 Fraundorfer, M. R., Gilling, P. J., Kennett, K. M., Dunton, N. G. Holmium laser resection of the prostate is more cost effective than transurethral resection of the prostate: results of a randomized prospective study. Urology. 2001 Mar; 57: 454-8

152890 Fried, N. M. New laser treatment approaches for benign prostatic hyperplasia. Curr Urol Rep. 2007; 8: 47-52

100350 Fried, N. M. Therapeutic applications of lasers in urology: an update. Expert Rev Med Devices. 2006 Jan; 3: 81-94

154690 Friend, P., Russ, G., Oberbauer, R., Murgia, M. G., Tufveson, G., Chapman, J., Blancho, G., Mota, A., Grandaliano, G., Campistol, J. M., Brault, Y. and Burke, J. T. Incidence of anemia in sirolimus-treated renal transplant recipients: the importance of preserving renal function. Transpl Int. 2007; 20: 754-60

151590 Fritschi, L., Glass, D. C., Tabrizi, J. S., Leavy, J. E. and Ambrosini, G. L. Occupational risk factors for prostate cancer and benign prostatic hyperplasia: a case-control study in Western Australia. Occup Environ Med. 2007; 64: 60-5

154550 Fritschi, L., Tabrizi, J., Leavy, J., Ambrosini, G. and Timperio, A. Risk factors for surgically treated benign prostatic hyperplasia in Western Australia. Public Health. 2007; 121: 781-9

105950 Fromont, G., Chene, L., Latil, A., Bieche, I., Vidaud, M., Vallancien, G., Mangin, P., Fournier, G., Validire, P., Cussenot, O. Molecular profiling of benign prostatic hyperplasia using a large scale real-time reverse transcriptase-polymerase chain reaction approach. J Urol. 2004 Oct; 172: 1382-5

116900 Frosch, D., Porzsolt, F., Heicappell, R., Kleinschmidt, K., Schatz, M., Weinknecht, S., Kaplan, R. M. Comparison of German language versions of the QWB-SA and SF-36 evaluating outcomes for patients with prostate disease. Qual Life Res. 2001; 10: 165-73

151390 Frumento, R. J., Logginidou, H. G., Wahlander, S., Wagener, G., Playford, H. R. and Sladen, R. N. Dexmedetomidine infusion is associated with enhanced renal function after thoracic surgery. J Clin Anesth. 2006; 18: 422-6

122480 Fry, P. M., Hudson, D. L., O'Hare, M. J., Masters, J. R. Comparison of marker protein expression in benign prostatic hyperplasia in vivo and in vitro. BJU Int. 2000 Mar; 85: 504-13

127100 Frymann, R. J., Nuttall, M. C., Carter, P. G. Case report: endurance cycle ride associated with a significant rise in PSA. Int Urol Nephrol. 2006; 38: 161-2

122180 Frymann, R., Cranston, D., O'Boyle, P. A review of studies published during 1998 examining the treatment and management of benign prostatic obstruction. BJU Int. 2000 Mar; 85 Suppl 1: 46-53

123600 Fu, W. J., Hong, B. F., Wang, X. X., Yang, Y., Cai, W., Gao, J. P., Chen, Y. F., Zhang, C. E. Evaluation of greenlight photoselective vaporization of the prostate for the treatment of high-risk patients with benign prostatic hyperplasia. Asian J Androl. 2006 May; 8: 367-71

100640 Fu, W. J., Hong, B. F., Yang, Y., Cai, W., Gao, J. P., Wang, C. Y., Wang, X. X. Photoselective vaporization of the prostate in the treatment of benign prostatic hyperplasia. Chin Med J (Engl). 2005 Oct 5; 118: 1610-4

126790 Fuchs, G. J. Milestones in endoscope design for minimally invasive urologic surgery: the sentinel role of a pioneer. Surg Endosc. 2006 Apr; 20 Suppl 2: S493-9

122430 Fujikawa, K., Aoyama, T., Itoh, T., Nishio, Y., Miyakawa, M., Sasaki, M. Volume-weighted mean nuclear volume. Is this new prognosticator comparable in different institutions?. Anal Quant Cytol Histol. 2000 Feb; 22: 55-62

150200 Fujimoto, K., Hirao, Y., Masumori, N., Arai, Y., Yamanaka, H., Kato, T. and Miyazawa, K. Prostate-specific antigen changes as a result of chlormadinone acetate administration to patients with benign prostatic hyperplasia: a retrospective multi-institutional study. Int J Urol. 2006; 13: 543-9

110720 Fujimoto, K., Hosokawa, Y., Tomioka, A., Yamamoto, H., Tanaka, Y., Otani, T., Ozono, S., Hirao, Y., Hayashi, Y. Variations of transition zone volume and transition zone index after transurethral needle ablation for symptomatic benign prostatic hyperplasia. Int J Urol. 2003 Jul; 10: 392-7

155600 Fujimura, T., Shinohara, Y., Tissot, B., Pang, P. C., Kurogochi, M., Saito, S., Arai, Y., Sadilek, M., Murayama, K., Dell, A., Nishimura, S. and Hakomori, S. I. Glycosylation status of haptoglobin in sera of patients with prostate cancer vs. benign prostate disease or normal subjects. Int J Cancer. 2008; 122: 39-49

139190 Fujishiro, T., Enomoto, H., Ugawa, Y., Takahashi, S., Ueno, S., Kitamura, T. Magnetic stimulation of the sacral roots for the treatment of stress incontinence: an investigational study and placebo controlled trial. J Urol. 2000 Oct; 164: 1277-9

136330 Fujita, M., Seibyl, J. P., Vaupel, D. B., Tamagnan, G., Early, M., Zoghbi, S. S., Baldwin, R. M., Horti, A. G., KoreN, A. O., Mukhin, A. G., Khan, S., Bozkurt, A., Kimes, A. S., London, E. D., Innis, R. B. Whole-body biodistribution, radiation absorbed dose, and brain SPET imaging with. Eur J Nucl Med Mol Imaging. 2002 Feb; 29: 183-90

154400 Fukagai, T., Maruyama, K., Nagata, M., Morita, M., Naoe, M. and Yoshida, H. Practice patterns regarding prostate cancer and benign prostatic hyperplasia in Japanese primary care practitioners. Int J Urol. 2007; 14: 412-5

112110 Fukatsu, A., Ono, Y., Ito, M., Yoshino, Y., Hattori, R., Gotoh, M., Ohshima, S. Relationship between serum prostate-specific antigen and calculated epithelial volume. Urology. 2003 Feb; 61: 370-4

163840 Fukuda, Y., Ohashi, I., Hanafusa, K., Nakagawa, T., Ohtani, S., An-naka, Y., Hayashi, T., Shibuya, H. Anisotropic diffusion in kidney: apparent diffusion coefficient measurements for clinical use. J Magn Reson Imaging. 2000 Feb; 11: 156-60

127840 Fulda, G. J., Giberson, F., Fagraeus, L. A prospective randomized trial of nebulized morphine compared with patient-controlled analgesia morphine in the management of acute thoracic pain. J Trauma. 2005 Aug; 59: 383-8; discussion 389-90

104220 Fung, B. T., Li, S. K., Yu, C. F., Lau, B. E., Hou, S. S. Prospective randomized controlled trial comparing plasmakinetic vaporesection and conventional transurethral resection of the prostate. Asian J Surg. 2005 Jan; 28: 24-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

106320 Fung, K. Y., Glode, L. M., Green, S., Duncan, M. W. A comprehensive characterization of the peptide and protein constituents of human seminal fluid. Prostate. 2004 Oct 1; 61: 171-81

155030 Fung, M. A., Warnock, G. L., Ao, Z., Keown, P., Meloche, M., Shapiro, R. J., Ho, S., Worsley, D., Meneilly, G. S., Al Ghofaili, K., Kozak, S. E., Tong, S. O., Trinh, M., Blackburn, L., Kozak, R. M., Fensom, B. A. and Thompson, D. M. The effect of medical therapy and islet cell transplantation on diabetic nephropathy: an interim report. Transplantation. 2007; 84: 17-22

156560 Furuya, R., Masumori, N., Furuya, S., Oda, T., Takahashi, S. and Takeuchi, M. Glomerulation observed during transurethral resection of the prostate for patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia is a common finding but no predictor of clinical outcome. Urology. 2007; 70: 922-6

119380 Furuya, Y., Akakura, K., Tobe, T., Ichikawa, T., Igarashi, T., Ito, H. Changes in serum prostate-specific antigen following prostatectomy in patients with benign prostate hyperplasia. Int J Urol. 2000 Dec; 7: 447-51

151440 Furuya, Y., Araki, I., Kamiyama, M., Zakoji, H., Takihana, Y. and Takeda, M. Decreased expression of G protein-coupled receptor kinases in the detrusor smooth muscle of human urinary bladder with outlet obstruction. Int J Urol. 2006; 13: 1226-32

115810 Furuya, Y., Fuse, H., Masai, M. Serum soluble Fas level for detection and staging of prostate cancer. Anticancer Res. 2001 Sep-Oct; 21: 3595-8

109500 Furuya, Y., Nagakawa, O., Fuse, H. Prognostic significance of serum soluble Fas level and its change during regression and progression of advanced prostate cancer. Endocr J. 2003 Oct; 50: 629-33

113050 Furuya, Y., Ohta, S., Sato, N., Kotake, T., Masai, M. Prostate-specific antigen, prostate volume and transition zone volume in Japanese patients with histologically proven benign prostatic hyperplasia. Int Urol Nephrol. 2001; 33: 645-8

130660 Fusaro, F., Zanon, G. F., Ferreli, A. M., Giuliani, S., Zacchello, G., Passerini-Glazel, G., Rigamonti, W. Renal transplantation in prune-belly syndrome. Transpl Int. 2004 Oct; 17: 549-52

137530 Fusco, F., Groutz, A., Blaivas, J. G., Chaikin, D. C., Weiss, J. P. Videourodynamic studies in men with lower urinary tract symptoms: a comparison of community based versus referral urological practices. J Urol. 2001 Sep; 166: 910-3

102980 Fussey, M. H. [I wish to congratulate you and express my appreciation of the articles 'Understanding prostate cancer', 'Benign prostatic hyperplasia' and 'Erectile dysfunction' in the journal of September 2004]. J R Soc Health. 2005 May; 125: 103

163660 Fuster, D., Lomena, F., Torregrosa, J. V., Oppenheimer, F., Piera, C., Setoain, F. J., Laterza, C., Herranz, R., Setoain, J. Indium-111 labelled platelet scintigraphy can predict the immunological origin of fever in patients on dialysis carrying a non-functioning renal allograft. Eur J Nucl Med. 2000 Mar; 27: 314-8

112230 Gacci, M., Bartoletti, R., Figlioli, S., Sarti, E., Eisner, B., Boddi, V., Rizzo, M. Urinary symptoms, quality of life and sexual function in patients with benign prostatic hypertrophy before and after prostatectomy: a prospective study. BJU Int. 2003 Feb; 91: 196-200

104170 Gades, N. M., Jacobson, D. J., Girman, C. J., Roberts, R. O., Lieber, M. M., Jacobsen, S. J. Prevalence of conditions potentially associated with lower urinary tract symptoms in men. BJU Int. 2005 Mar; 95: 549-53

139210 Gagnon, R. F., Tecimer, S. N., Watters, A. K., Tsoukas, C. M. Prospective study of urinalysis abnormalities in HIV-positive individuals treated with indinavir. Am J Kidney Dis. 2000 Sep; 36: 507-15

155470 Gahl, W. A., Balog, J. Z. and Kleta, R. Nephropathic cystinosis in adults: natural history and effects of oral cysteamine therapy. Ann Intern Med. 2007; 147: 242-50

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

150480 Gajate, L., Martin, A., Elias, E., Tenorio, M. T., de Pablo, A., Carrasco, C., Martinez, A., Candela, A., Zamora, J. and Liano, F. Analysis of renal function in the immediate postoperative period after partial liver transplantation. Liver Transpl. 2006; 12: 1371-80

156280 Galeone, C., Pelucchi, C., Talamini, R., Negri, E., Dal Maso, L., Montella, M., Ramazzotti, V., Franceschi, S. and La Vecchia, C. Onion and garlic intake and the odds of benign prostatic hyperplasia. Urology. 2007; 70: 672-6

153730 Gallo, L., Perdona, S., Autorino, R., Menna, L., Claudio, L., Marra, L., Di Lorenzo, G. and Gallo, A. Vesicourethral anastomosis during radical retropubic prostatectomy: does the number of sutures matter?. Urology. 2007; 69: 547-51

106250 Gandour-Edwards, R., Mack, P. C., Devere-White, R. W., Gumerlock, P. H. Abnormalities of apoptotic and cell cycle regulatory proteins in distinct histopathologic components of benign prostatic hyperplasia. Prostate Cancer Prostatic Dis. 2004; 7: 321-6

161430 Gann, P. H., Klein, K. G., Chatterton, R. T., Ellman, A. E., Grayhack, J. T., Nadler, R. B., Lee, C. Growth factors in expressed prostatic fluid from men with prostate cancer, BPH, and clinically normal prostates. Prostate. 1999 Sep 1; 40: 248-55

128470 Gannon, K., Glover, L., O'Neill, M., Emberton, M. Lower urinary tract symptoms in men: self-perceptions and the concept of bother. BJU Int. 2005 Oct; 96: 823-7

131840 Gannon, K., Glover, L., O'Neill, M., Emberton, M. Men and chronic illness: a qualitative study of LUTS. J Health Psychol. 2004 May; 9: 411-20

131210 Ganpule, A. P., Desai, M. R., Desai, M. M., Wani, K. D., Bapat, S. D. Natural history of lower urinary tract symptoms: preliminary report from a community-based Indian study. BJU Int. 2004 Aug; 94: 332-4

130530 Ganzer, R., Kohler, D., Neuhaus, J., Dorschner, W., Stolzenburg, J. U. Is the rhesus monkey (Macaca mulatta) comparable to humans? Histomorphology of the sphincteric musculature of the lower urinary tract including 3D-reconstruction. Anat Histol Embryol. 2004 Dec; 33: 355-61

135160 Ganzer, R., Neuhaus, J., Dorschner, W., Stolzenburg, J. U. Muscle systems of the lower urinary tract of the male rhesus monkey (Macaca mulatta): histomorphology and 3-dimensional reconstruction. J Urol. 2002 Oct; 168: 1603-7

103560 Ganzera, M., Piereder, D., Sturm, S., Erdelmeier, C., Stuppner, H. Urtica dioica agglutinin: separation, identification, and quantitation of individual isolectins by capillary electrophoresis and capillary electrophoresis-mass spectrometry. Electrophoresis. 2005 May; 26: 1724-31

116670 Garcia-Losa, M., Unda, M., Badia, X., Rodriguez-Alcantara, F., Carballido, J., Dal-Re, R., Herdman, M. Effect of mode of administration on I-PSS scores in a large BPH patient population. Eur Urol. 2001 Oct; 40: 451-7

161790 Garcia-Segura, J. M., Sanchez-Chapado, M., Ibarburen, C., Viano, J., Angulo, J. C., Gonzalez, J., Rodriguez-Vallejo, J. M. In vivo proton magnetic resonance spectroscopy of diseased prostate: spectroscopic features of malignant versus benign pathology. Magn Reson Imaging. 1999 Jun; 17: 755-65

123360 Garg, G., Singh, D., Saraf, S., Saraf, S. Management of benign prostate hyperplasia: an overview of alpha-adrenergic antagonist. Biol Pharm Bull. 2006 Aug; 29: 1554-8

122320 Garnero, P., Buchs, N., Zekri, J., Rizzoli, R., Coleman, R. E., Delmas, P. D. Markers of bone turnover for the management of patients with bone metastases from prostate cancer. Br J Cancer. 2000 Feb; 82: 858-64

116860 Garnett, S., Abrams, P. Managing benign prostatic hyperplasia. Practitioner. 2001 Oct; 245: 830-2, 834, 836 passim

106040 Garraway, I. P., Seligson, D., Said, J., Horvath, S., Reiter, R. E. Trefoil factor 3 is overexpressed in human prostate cancer. Prostate. 2004 Nov 1; 61: 209-14

113250 Gass, R. Benign prostatic hyperplasia: the opposite effects of alcohol and coffee intake. BJU Int. 2002 Nov; 90: 649-54

133930 Gattellari, M., Young, J. M., Ward, J. E. GP and patient predictors of PSA screening in Australian general practice. Fam Pract. 2003 Jun; 20: 294-303

164260 Gatti, J. M., Cartwright, P. C., Hamilton, B. D., Snow, B. W. Percutaneous endoscopic trigonoplasty in children: long-term outcomes and modifications in technique. J Endourol. 1999 Oct; 13: 581-4

153660 Gayet-Ageron, A., Ananworanich, J., Jupimai, T., Chetchotisakd, P., Prasithsirikul, W., Ubolyam, S., Le Braz, M., Ruxrungtham, K., Rooney, J. F. and Hirschel, B. No change in calculated creatinine clearance after tenofovir initiation among Thai patients. J Antimicrob Chemother. 2007; 59: 1034-7

111500 Gaynor, M. L. Isoflavones and the prevention and treatment of prostate disease: is there a role?. Cleve Clin J Med. 2003 Mar; 70: 203-4, 206, 208-9 passim

110090 Gazi, E., Dwyer, J., Gardner, P., Ghanbari-Siahkali, A., Wade, A. P., Miyan, J., Lockyer, N. P., Vickerman, J. C., Clarke, N. W., Shanks, J. H., Scott, L. J., Hart, C. A., Brown, M. Applications of Fourier transform infrared microspectroscopy in studies of benign prostate and prostate cancer. A pilot study. J Pathol. 2003 Sep; 201: 99-108

165430 Gehring, H., Nahm, W., Baerwald, J., Fornara, P., Schneeweiss, A., Roth-Isigkeit, A., Schmucker, P. Irrigation fluid absorption during transurethral resection of the prostate: spinal vs. general anaesthesia. Acta Anaesthesiol Scand. 1999 Apr; 43: 458-63

111320 Gelmini, S., Tricarico, C., Petrone, L., Forti, G., Amorosi, A., Dedola, G. L., Serio, M., Pazzagli, M., Orlando, C. Real-time RT-PCR for the measurement of prostate-specific antigen mRNA expression in benign hyperplasia and adenocarcinoma of prostate. Clin Chem Lab Med. 2003 Mar; 41: 261-5

133530 Gencer, S., Salepci, T., Ozer, S. Evaluation of infectious etiology and prognostic risk factors of febrile episodes in neutropenic cancer patients. J Infect. 2003 Jul; 47: 65-72

157250 Geppetti, P., Nassini, R., Materazzi, S. and Benemei, S. The concept of neurogenic inflammation. BJU Int. 2008; 101 Suppl 3: 2-6

132100 Geramoutsos, I., Gyftopoulos, K., Perimenis, P., Thanou, V., Liagka, D., Siamblis, D., Barbalias, G. Clinical correlation of prostatic lithiasis with chronic pelvic pain syndromes in young adults. Eur Urol. 2004 Mar; 45: 333-7; discussion 337-8

133510 Gerard, L. L., Cooper, C. S., Duethman, K. S., Gordley, B. M., Kleiber, C. M. Effectiveness of lidocaine lubricant for discomfort during pediatric urethral catheterization. J Urol. 2003 Aug; 170: 564-7

114050 Gerber, G. S. Phytotherapy for benign prostatic hyperplasia. Curr Urol Rep. 2002 Aug; 3: 285-91

119530 Gerber, G. S. Saw palmetto for the treatment of men with lower urinary tract symptoms. J Urol. 2000 May; 163: 1408-12

106380 Gerber, G. S., Fitzpatrick, J. M. The role of a lipido-sterolic extract of Serenoa repens in the management of lower urinary tract symptoms associated with benign prostatic hyperplasia. BJU Int. 2004 Aug; 94: 338-44

137110 Gerber, G. S., Kuznetsov, D., Johnson, B. C., Burstein, J. D. Randomized, double-blind, placebo-controlled trial of saw palmetto in men with lower urinary tract symptoms. Urology. 2001 Dec; 58: 960-4; discussion 964-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

115280 Gerstenbluth, R. E., Seftel, A. D., MacLennan, G. T., Rao, R. N., Corty, E. W., Ferguson, K., Resnick, M. I. Distribution of chronic prostatitis in radical prostatectomy specimens with up-regulation of bcl-2 in areas of inflammation. J Urol. 2002 May; 167: 2267-70

155820 Gerth, J., Cohen, C. D., Hopfer, U., Lindenmeyer, M. T., Sommer, M., Grone, H. J. and Wolf, G. Collagen type VIII expression in human diabetic nephropathy. Eur J Clin Invest. 2007; 37: 767-73

137860 Gervaix, A., Galetto-Lacour, A., Gueron, T., Vadas, L., Zamora, S., Suter, S., Girardin, E. Usefulness of procalcitonin and C-reactive protein rapid tests for the management of children with urinary tract infection. Pediatr Infect Dis J. 2001 May; 20: 507-11

114040 Ghafar, M. A., Puchner, P. J., Anastasiadis, A. G., Cabelin, M. A., Buttyan, R. Does the prostatic vascular system contribute to the development of benign prostatic hyperplasia?. Curr Urol Rep. 2002 Aug; 3: 292-6

102660 Ghalayini, I. F., Al-Ghazo, M. A., Pickard, R. S. A prospective randomized trial comparing transurethral prostatic resection and clean intermittent self-catheterization in men with chronic urinary retention. BJU Int. 2005 Jul; 96: 93-7

129000 Ghavamian, R., Knoll, A., Teixeira, J. A. Simultaneous extraperitoneal laparoscopic radical prostatectomy and intraperitoneal inguinal hernia repair with mesh. JSLS. 2005 Apr-Jun; 9: 231-4

135610 Ghobish, A. Voiding dysfunction associated with 'chronic bacterial prostatitis'. Eur Urol. 2002 Aug; 42: 159-62

138810 Ghobish, A. A. Quantitative and qualitative assessment of flowmetrograms in patients with prostatodynia. Eur Urol. 2000 Nov; 38: 576-83

100300 Ghosh, J., Burman, A., Manna, A. K., Chatterjee, A. Role of proliferative markers in prostatic lesions. Indian J Pathol Microbiol. 2004 Jul; 47: 354-8

110310 Gianduzzo, T. R., Holmes, E. G., Tinggi, U., Shahin, M., Mactaggart, P., Nicol, D. Prostatic and peripheral blood selenium levels after oral supplementation. J Urol. 2003 Sep; 170: 870-3

111660 Giannakopoulos, X., Baltogiannis, D., Giannakis, D., Tasos, A., Sofikitis, N., Charalabopoulos, K., Evangelou, A. The lipidosterolic extract of Serenoa repens in the treatment of benign prostatic hyperplasia: a comparison of two dosage regimens. Adv Ther. 2002 Nov-Dec; 19: 285-96

119740 Giannopoulos, A., Koratzanis, G., Giamarellos-Bourboulis, E. J., Panou, C., Adamakis, I., Giamarellou, H. Pharmacokinetics of clarithromycin in the prostate: implications for the treatment of chronic abacterial prostatitis. J Urol. 2001 Jan; 165: 97-9

118620 Giannopoulos, A., Koratzanis, G., Giamarellos-Bourboulis, E. J., Stinios, I., Chrisofos, M., Giannopoulou, M., Giamarellou, H. Pharmacokinetics of intravenously administered pefloxacin in the prostate; perspectives for its application in surgical prophylaxis. Int J Antimicrob Agents. 2001 Mar; 17: 221-4

150000 Gianotti, L., Tassone, F., Cesario, F., Pia, A., Razzore, P., Magro, G., Piovesan, A. and Borretta, G. A slight decrease in renal function further impairs bone mineral density in primary hyperparathyroidism. J Clin Endocrinol Metab. 2006; 91: 3011-6

128510 Giel, D. W., Noe, H. N., Williams, M. A. Ultrasound screening of asymptomatic siblings of children with vesicoureteral reflux: a long-term followup study. J Urol. 2005 Oct; 174: 1602-4; discussion 1604-5

106570 Gilchrist, K. Benign prostatic hyperplasia: is it a precursor to prostatic cancer?. Nurse Pract. 2004 Jun; 29: 30-7; quiz 37-9

156940 Gill, J., Cho, Y. W., Danovitch, G. M., Wilkinson, A., Lipshutz, G., Pham, P. T., Gill, J. S., Shah, T. and Bunnapradist, S. Outcomes of dual adult kidney transplants in the United States: an analysis of the OPTN/UNOS database. Transplantation. 2008; 85: 62-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

140470 Gilling, P. J., Kennett, K. M., Fraundorfer, M. R. Holmium laser enucleation of the prostate for glands larger than 100 g: an endourologic alternative to open prostatectomy. J Endourol. 2000 Aug; 14: 529-31

140350 Gilling, P. J., Kennett, K. M., Fraundorfer, M. R. Holmium laser resection v transurethral resection of the prostate: results of a randomized trial with 2 years of follow-up. J Endourol. 2000 Nov; 14: 757-60

160750 Gilling, P. J., Mackey, M., Cresswell, M., Kennett, K., Kabalin, J. N., Fraundorfer, M. R. Holmium laser versus transurethral resection of the prostate: a randomized prospective trial with 1-year followup. J Urol. 1999 Nov; 162: 1640-4

164530 Gilmour, D. T., Dwyer, P. L., Carey, M. P. Lower urinary tract injury during gynecologic surgery and its detection by intraoperative cystoscopy. Obstet Gynecol. 1999 Nov; 94: 883-9

139260 Ginsberg, D., Rovner, E., Raz, S. Continence mechanism based on a modified ileocecal valve. Tech Urol. 2000 Sep; 6: 167-71

122020 Gion, M., Mione, R., Barioli, P., Barichello, M., Zattoni, F., Prayer-Galetti, T., Plebani, M., Aimo, G., Terrone, C., Manferrari, F., Madeddu, G., Caberlotto, L., Fandella, A., Pianon, C., Vianello, L., Amoroso, B. Clinical evaluation of percent free prostate-specific antigen using the AxSYM system in the best analytical scenario. Eur Urol. 2000 Apr; 37: 460-9

121400 Giri, D., Ittmann, M. Interleukin-1alpha is a paracrine inducer of FGF7, a key epithelial growth factor in benign prostatic hyperplasia. Am J Pathol. 2000 Jul; 157: 249-55

117620 Giri, D., Ittmann, M. Interleukin-8 is a paracrine inducer of fibroblast growth factor 2, a stromal and epithelial growth factor in benign prostatic hyperplasia. Am J Pathol. 2001 Jul; 159: 139-47

162620 Girman, C. J., Jacobsen, S. J., Rhodes, T., Guess, H. A., Roberts, R. O., Lieber, M. M. Association of health-related quality of life and benign prostatic enlargement. Eur Urol. 1999 Apr; 35: 277-84

164420 Girschick, H. J., Seyberth, H. W., Huppertz, H. I. Treatment of childhood hypophosphatasia with nonsteroidal antiinflammatory drugs. Bone. 1999 Nov; 25: 603-7

121570 Gisolf, K. W., van Venrooij, G. E., Eckhardt, M. D., Boon, T. A. Analysis and reliability of data from 24-hour frequency-volume charts in men with lower urinary tract symptoms due to benign prostatic hyperplasia. Eur Urol. 2000 Jul; 38: 45-52

150770 Gittelman, M., Ramsdell, J., Young, J. and McNicholas, T. Dutasteride improves objective and subjective disease measures in men with benign prostatic hyperplasia and modest or severe prostate enlargement. J Urol. 2006; 176: 1045-50; discussion 1050

100140 Giubilei, G., Ponchietti, R., Biscioni, S., Fanfani, A., Ciatto, S., DI Loro, F., Gavazzi, A., Mondaini, N. Accuracy of prostate volume measurements using transrectal multiplanar three-dimensional sonography. Int J Urol. 2005 Oct; 12: 936-8

101450 Giuliano, F. Impact of medical treatments for benign prostatic hyperplasia on sexual function. BJU Int. 2006 Apr; 97 Suppl 2: 34-8; discussion 44-5

157270 Giuliano, F. Lower urinary tract symptoms and sexual dysfunction: a common approach. BJU Int. 2008; 101 Suppl 3: 22-6

101930 Giuliano, F., Kaplan, S. A., Cabanis, M. J., Astruc, B. Hemodynamic interaction study between the alpha1-blocker alfuzosin and the phosphodiesterase-5 inhibitor tadalafil in middle-aged healthy male subjects. Urology. 2006 Jun; 67: 1199-204

110160 Gjengsto, P., Halvorsen, O. J., Akslen, L. A., Frugard, J., Hoisaeter, P. A. Benign growth of different prostate zones in aging men with slightly elevated PSA in whom prostate cancer has been excluded: a prospective study of 510 patients. Urology. 2003 Sep; 62: 447-50

105050 Gjertson, C. K., Walmsley, K., Kaplan, S. A. Benign prostatic hyperplasia: now we can begin to tailor treatment. Cleve Clin J Med. 2004 Nov; 71: 857, 860, 863-5 passim

103220 Glasscock, L. N., Rehault, S. M., Gregory, C. W., Cooper, S. T., Jackson, T. P., Hoffman, M., Church, F. C. Protein C inhibitor (plasminogen activator inhibitor-3) expression in the CWR22 prostate cancer xenograft. Exp Mol Pathol. 2005 Aug; 79: 23-32

119350 Glassman, D. T., Chon, J. K., Borkowski, A., Jacobs, S. C., Kyprianou, N. Combined effect of terazosin and finasteride on apoptosis, cell proliferation, and transforming growth factor-beta expression in benign prostatic hyperplasia. Prostate. 2001 Jan 1; 46: 45-51

105700 Glienke, W., Dolgova, Y., Muller, I., Grosch, S., Binder, J., Geisslinger, G., Jonas, D. Induction of apoptosis in human prostate stromal cells by 4-hydroxytamoxifen: an alternative therapy for benign prostate hyperplasia. World J Urol. 2004 Dec; 22: 452-6

126860 Glina, S., Santana, A. W., Azank, F., Mello, L. F., Moreira, E. D. , Jr. Lower urinary tract symptoms and erectile dysfunction are highly prevalent in ageing men. BJU Int. 2006 Apr; 97: 763-5

131100 Glover, L., Gannon, K., McLoughlin, J., Emberton, M. Men's experiences of having lower urinary tract symptoms: factors relating to bother. BJU Int. 2004 Sep; 94: 563-7

123420 Gnanapragasam, V. J., Kumar, V., Langton, D., Pickard, R. S., Leung, H. Y. Outcome of transurethral prostatectomy for the palliative management of lower urinary tract symptoms in men with prostate cancer. Int J Urol. 2006 Jun; 13: 711-5

116480 Gnanapragasam, V. J., Leung, H. Y., Pulimood, A. S., Neal, D. E., Robson, C. N. Expression of RAC 3, a steroid hormone receptor co-activator in prostate cancer. Br J Cancer. 2001 Dec 14; 85: 1928-36

120370 Gnanapragasam, V. J., McCahy, P. J., Neal, D. E., Robson, C. N. Insulin-like growth factor II and androgen receptor expression in the prostate. BJU Int. 2000 Oct; 86: 731-5

123040 Godley, P. A., Carpenter, W. R. Case-control prostate cancer screening studies should not exclude subjects with lower urinary tract symptoms. J Clin Epidemiol. 2007 Feb; 60: 176-80

109930 Godschalk, M. F., Unice, K. A., Bergner, D., Katz, P. G., Mulligan, T., McMichael, J. A trial study: the effect of low dose human chorionic gonadotropin on the symptoms of benign prostatic hyperplasia. J Urol. 2003 Oct; 170: 1264-9

106600 Goel, A. Re: Transurethral resection of prostate and suprapubic ballistic vesicolithotripsy for benign prostatic hyperplasia with vesical calculi (Kamat et al; J Endourol 2003; 17:505-510) and Per-urethral endoscopic management of bladder stones: does size matter?. J Endourol. 2004 Jun; 18: 512

135320 Goel, A., Hemal, A. K., Gupta, N. P. Retroperitoneal laparoscopic radical nephrectomy and nephroureterectomy and comparison with open surgery. World J Urol. 2002 Sep; 20: 219-23

120090 Goessl, C., Krause, H., Muller, M., Heicappell, R., Schrader, M., Sachsinger, J., Miller, K. Fluorescent methylation-specific polymerase chain reaction for DNA-based detection of prostate cancer in bodily fluids. Cancer Res. 2000 Nov 1; 60: 5941-5

116720 Goessl, C., Muller, M., Heicappell, R., Krause, H., Miller, K. DNA-based detection of prostate cancer in blood, urine, and ejaculates. Ann N Y Acad Sci. 2001 Sep; 945: 51-8

115740 Goessl, C., Muller, M., Heicappell, R., Krause, H., Schostak, M., Straub, B., Miller, K. Methylation-specific PCR for detection of neoplastic DNA in biopsy washings. J Pathol. 2002 Mar; 196: 331-4

117100 Goessl, C., Muller, M., Heicappell, R., Krause, H., Straub, B., Schrader, M., Miller, K. DNA-based detection of prostate cancer in urine after prostatic massage. Urology. 2001 Sep; 58: 335-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

127680 Gogus, C., Turkolmez, K., Fitoz, S., Ozden, E., Yagci, C., Gogus, O. 3-Dimensional computerized tomography in follow-up of patients with urinary diversion. Int Urol Nephrol. 2005; 37: 739-42

164300 Gokalp, A., Tahmaz, L., Peskircioglu, L., Ozgok, Y., Saglam, M., Kibar, Y., Harmankaya, A. C. Effect of lower infundibulopelvic angle, lower infundibulum diameter and inferior calyceal length on stone formation. Urol Int. 1999; 63: 107-9

127490 Goktas, S., Kibar, Y., Kilic, S., Topac, H., Coban, H., Seckin, B. Recovery of abnormal ejaculation by intermittent tamsulosin treatment. J Urol. 2006 Feb; 175: 650-2; discussion 652-3

102970 Goktas, S., Yilmaz, M. I., Caglar, K., Sonmez, A., Kilic, S., Bedir, S. Prostate cancer and adiponectin. Urology. 2005 Jun; 65: 1168-72

108250 Golda, R., Wolski, Z., Wyszomirska-Golda, M., Madalinski, K., Michalkiewicz, J. The presence and structure of circulating immune complexes in patients with prostate tumors. Med Sci Monit. 2004 Mar; 10: CR123-7

115530 Goldmann, W. H., Sharma, A. L., Currier, S. J., Johnston, P. D., Rana, A., Sharma, C. P. Saw palmetto berry extract inhibits cell growth and Cox-2 expression in prostatic cancer cells. Cell Biol Int. 2001; 25: 1117-24

101220 Goldsmith, D. R., Plosker, G. L. Doxazosin gastrointestinal therapeutic system: a review of its use in benign prostatic hyperplasia. Drugs. 2005; 65: 2037-47

152250 Goldstraw, M. A., Kirby, R. S. and Dasgupta, P. The role of botulinum toxin in benign prostatic hyperplasia. BJU Int. 2006; 98: 1147-8

162870 Golka, K., Bandel, T., Schlaefke, S., Reich, S. E., Reckwitz, T., Urfer, W., Bremicker, K. D., Neugebauer, W., Soekeland, J., Bolt, H. M. Urothelial cancer of the bladder in an area of former coal, iron, and steel industries in Germany: a case-control study. Int J Occup Environ Health. 1998 Apr-Jun; 4: 79-84

133740 Gomelsky, A., Lemack, G. E., Weld, K. J., Dmochowski, R. R. Urodynamic patterns following ischemic spinal cord events. J Urol. 2003 Jul; 170: 122-5

131010 Gomes, C. M., Arap, S., Trigo-Rocha, F. E. Voiding dysfunction and urodynamic abnormalities in elderly patients. Rev Hosp Clin Fac Med Sao Paulo. 2004 Aug; 59: 206-15

136690 Gomes, C. M., Trigo-Rocha, F., Arap, M. A., Gabriel, A. J., Alaor de Figueiredo, J., Arap, S. Schistosomal myelopathy: urologic manifestations and urodynamic findings. Urology. 2002 Feb; 59: 195-200

164720 Gommer, E. D., Vanspauwen, T. J., Miklosi, M., Wen, J. G., Kinder, M. V., Janknegt, R. A., van Waalwijk van Doorn, E. S. Validity of a non-invasive determination of the isovolumetric bladder pressure during voiding in men with LUTS. Neurourol Urodyn. 1999; 18: 477-86

106110 Gong, E. M., Gerber, G. S. Saw palmetto and benign prostatic hyperplasia. Am J Chin Med. 2004; 32: 331-8

110510 Gonzalez, C. M., McVary, K. T. The role of combination therapy for lower urinary tract symptoms secondary to benign prostatic hyperplasia. Curr Urol Rep. 2003 Aug; 4: 276-81

154360 Gonzalez, R. and Piaggio, L. Initial experience with laparoscopic ipsilateral ureteroureterostomy in infants and children for duplication anomalies of the urinary tract. J Urol. 2007; 177: 2315-8

123540 Gonzalez, R. R., Kaplan, S. A. First-line treatment for symptomatic benign prostatic hyperplasia: is there a particular patient profile for a particular treatment?. World J Urol. 2006 Sep; 24: 360-6

102330 Gonzalez, R. R., Kaplan, S. A. Tadalafil for the treatment of lower urinary tract symptoms in men with benign prostatic hyperplasia. Expert Opin Drug Metab Toxicol. 2006 Aug; 2: 609-17

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

155310 Gopal, E., Umapathy, N. S., Martin, P. M., Ananth, S., Gnana-Prakasam, J. P., Becker, H., Wagner, C. A., Ganapathy, V. and Prasad, P. D. Cloning and functional characterization of human SMCT2 (SLC5A12) and expression pattern of the transporter in kidney. Biochim Biophys Acta. 2007; 1768: 2690-7

154980 Gopi, S. S., Goodman, C. M., Robertson, A. and Byrne, D. J. A prospective pilot study to validate the management protocol for patients presenting with acute urinary retention: a community-based, nonhospitalised protocol. ScientificWorldJournal. 2006; 6: 2436-41

111520 Gordon, A. E., Shaughnessy, A. F. Saw palmetto for prostate disorders. Am Fam Physician. 2003 Mar 15; 67: 1281-3

115570 Gormley, G. J., Stoner, E., Bruskewitz, R. C., Imperato-McGinley, J., Walsh, P. C., McConnell, J. D., Andriole, G. L., Geller, J., Bracken, B. R., Tenover, J. S., Vaughan, E. D., Pappas, F., Taylor, A., Binkowitz, B., Ng, J. The effect of finasteride in men with benign prostatic hyperplasia. 1992. J Urol. 2002 Feb; 167: 1102-7; discussion 1108

156400 Gorur, S., Inanoglu, K., Akkurt, B. C., Candan, Y. and Kiper, A. N. Periprostatic nerve blockage reduces postoperative analgesic consumption and pain scores of patients undergoing transurethral prostate resection. Urol Int. 2007; 79: 297-301

101670 Gotoh, M., Kamihira, O., Kinukawa, T., Ono, Y., Ohshima, S., Origasa, H. Comparison of tamsulosin and naftopidil for efficacy and safety in the treatment of benign prostatic hyperplasia: a randomized controlled trial. BJU Int. 2005 Sep; 96: 581-6

161880 Gotoh, M., Yoshikawa, Y., Kondo, A. S., Kondo, A., Ono, Y., Ohshima, S. Positive bladder cooling reflex in patients with bladder outlet obstruction due to benign prostatic hyperplasia. World J Urol. 1999 Apr; 17: 126-30

160620 Gotoh, M., Yoshikawa, Y., Kondo, A. S., Kondo, A., Ono, Y., Ohshima, S. Prognostic value of pressure-flow study in surgical treatment of benign prostatic obstruction. World J Urol. 1999 Oct; 17: 274-8

121390 Goulas, A., Hatzichristou, D. G., Karakiulakis, G., Mirtsou-Fidani, V., Kalinderis, A., Papakonstantinou, E. Benign hyperplasia of the human prostate is associated with tissue enrichment in chondroitin sulphate of wide size distribution. Prostate. 2000 Jul 1; 44: 104-10

101130 Gourova, L. W., van de Beek, C., Spigt, M. G., Nieman, F. H., van Kerrebroeck, P. E. Predictive factors for nocturia in elderly men: a cross-sectional study in 21 general practices. BJU Int. 2006 Mar; 97: 528-32

131990 Govender, D., Ramdial, P. K., Clarke, B., Chetty, R. Clear cell (glycogen-rich) gastric adenocarcinoma. Ann Diagn Pathol. 2004 Apr; 8: 69-73

104470 Gowardhan, B., Douglas, D. A., Mathers, M. E., McKie, A. B., McCracken, S. R., Robson, C. N., Leung, H. Y. Evaluation of the fibroblast growth factor system as a potential target for therapy in human prostate cancer. Br J Cancer. 2005 Jan 31; 92: 320-7

106270 Goya, N., Ishikawa, N., Ito, F., Kobayashi, C., Tomizawa, Y., Toma, H. Transurethral ethanol injection therapy for prostatic hyperplasia: 3-year results. J Urol. 2004 Sep; 172: 1017-20

161570 Goya, N., Ishikawa, N., Ito, F., Ryoji, O., Tokumoto, T., Toma, H., Yamaguchi, Y. Ethanol injection therapy of the prostate for benign prostatic hyperplasia: preliminary report on application of a new technique. J Urol. 1999 Aug; 162: 383-6

102610 Goyal, A., Delves, G. H., Chopra, M., Lwaleed, B. A., Cooper, A. J. Prostate cells exposed to lycopene in vitro liberate lycopene-enriched exosomes. BJU Int. 2006 Oct; 98: 907-11

101000 Gozzi, G., Conti, G., Peroni, R., Spatafora, S., Pavlica, P., Cammarota, T., Bertolotto, M. Consensus conference about imaging of Benign Prostatic Hypertrophy. Radiol Med (Torino). 2005 Sep; 110: 179-89

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

160640 Gradini, R., Realacci, M., Ginepri, A., Naso, G., Santangelo, C., Cela, O., Sale, P., Berardi, A., Petrangeli, E., Gallucci, M., Di Silverio, F., Russo, M. A. Nitric oxide synthases in normal and benign hyperplastic human prostate: immunohistochemistry and molecular biology. J Pathol. 1999 Oct; 189: 224-9

117560 Graff, J. R., Deddens, J. A., Konicek, B. W., Colligan, B. M., Hurst, B. M., Carter, H. W., Carter, J. H. Integrin-linked kinase expression increases with prostate tumor grade. Clin Cancer Res. 2001 Jul; 7: 1987-91

116370 Graff, J. R., Konicek, B. W., Deddens, J. A., Chedid, M., Hurst, B. M., Colligan, B., Neubauer, B. L., Carter, H. W., Carter, J. H. Expression of group IIa secretory phospholipase A2 increases with prostate tumor grade. Clin Cancer Res. 2001 Dec; 7: 3857-61

129820 Grafstein, N. H., Combs, A. J., Glassberg, K. I. Primary bladder neck dysfunction: an overlooked entity in children. Curr Urol Rep. 2005 Mar; 6: 133-9

163340 Grampsas, S. A., Chandhoke, P. S., Fan, J., Glass, M. A., Townsend, R., Johnson, A. M., Gabow, P. Anatomic and metabolic risk factors for nephrolithiasis in patients with autosomal dominant polycystic kidney disease. Am J Kidney Dis. 2000 Jul; 36: 53-7

130360 Gran, C. D., Kropp, B. P., Cheng, E. Y., Kropp, K. A. Primary lower urinary tract reconstruction for nonfunctioning renal moieties associated with obstructing ureteroceles. J Urol. 2005 Jan; 173: 198-201

164910 Grandjean, H., Larroque, D., Levi, S. The performance of routine ultrasonographic screening of pregnancies in the Eurofetus Study. Am J Obstet Gynecol. 1999 Aug; 181: 446-54

164460 Grasso, M., Ficazzola, M. Retrograde ureteropyeloscopy for lower pole caliceal calculi. J Urol. 1999 Dec; 162: 1904-8

164930 Grasso, M., Fraiman, M., Levine, M. Ureteropyeloscopic diagnosis and treatment of upper urinary tract urothelial malignancies. Urology. 1999 Aug; 54: 240-6

153780 Gratzke, C., Schlenker, B., Seitz, M., Karl, A., Hermanek, P., Lack, N., Stief, C. G. and Reich, O. Complications and early postoperative outcome after open prostatectomy in patients with benign prostatic enlargement: results of a prospective multicenter study. J Urol. 2007; 177: 1419-22

152360 Gravas, S. and Melekos, M. D. Transurethral microwave thermotherapy: from evidence-based medicine to clinical practice. Curr Opin Urol. 2007; 17: 12-6

109370 Gravas, S., Laguna, M. P., De La Rosette, J. J. Application of external microwave thermotherapy in urology: past, present, and future. J Endourol. 2003 Oct; 17: 659-66

109980 Gravas, S., Laguna, M. P., de la Rosette, J. J. Efficacy and safety of intraprostatic temperature-controlled microwave thermotherapy in patients with benign prostatic hyperplasia: results of a prospective, open-label, single-center study with 1-year follow-up. J Endourol. 2003 Aug; 17: 425-30

112770 Gravas, S., Laguna, P., de la Rosette, J. Thermotherapy and thermoablation for benign prostatic hyperplasia. Curr Opin Urol. 2003 Jan; 13: 45-9

154230 Gravas, S., Laguna, P., Kiemeney, L. A. and de la Rosette, J. J. Durability of 30-minute high-energy transurethral microwave therapy for treatment of benign prostatic hyperplasia: a study of 213 patients with and without urinary retention. Urology. 2007; 69: 854-8

156750 Gravas, S., Tzortzis, V. and Melekos, M. D. Translation of benign prostatic hyperplasia guidelines into clinical practice. Curr Opin Urol. 2008; 18: 56-60

131470 Gray, M. A., Crampton, P., Weinstein, P., Nacey, J. N. Differences in prostate disease symptoms and visits to the general practitioner among three ethnic groups in New Zealand. BJU Int. 2004 Jul; 94: 96-100

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

136430 Gray, M., Albo, M., Huffstutler, S. Interstitial cystitis: a guide to recognition, evaluation, and management for nurse practitioners. J Wound Ostomy Continence Nurs. 2002 Mar; 29: 93-102

161770 Gray, M., Allensworth, D. Electrovaporization of the prostate: initial experiences and nursing management. Urol Nurs. 1999 Mar; 19: 25-31

110580 Gray, R. A., Moores, A. H., Hehir, M., Worsley, M. Transurethral vaporisation of the prostate and irrigating fluid absorption. Anaesthesia. 2003 Aug; 58: 787-91

108910 Grayhack, J. T., Smith, N. D., Ilio, K., Wambi, C., Kasjanski, R., Crawford, S. E., Doll, J. A., Wang, Z., Lee, C., Kozlowski, J. M. Pigment epithelium-derived factor, a human testis epididymis secretory product, promotes human prostate stromal cell growth in culture. J Urol. 2004 Jan; 171: 434-8

155300 Grbac-Ivankovic, S., Smokvina, A., Girotto, N. and Licul, V. Initial presentation of scintigraphic changes during the first episode of acute pyelonephritis in children: simultaneous evaluation with MAG3 and DMSA. Nuklearmedizin. 2007; 46: 129-34

115500 Green, J. S., Holden, S. T., Bose, P., George, D. P., Bowsher, W. G. An investigation into the relationship between prostate size, peak urinary flow rate and male erectile dysfunction. Int J Impot Res. 2001 Dec; 13: 322-5

135120 Greenspan, S., Field-Munves, E., Tonino, R., Smith, M., Petruschke, R., Wang, L., Yates, J., de Papp, A. E., Palmisano, J. Tolerability of once-weekly alendronate in patients with osteoporosis: a randomized, double-blind, placebo-controlled study. Mayo Clin Proc. 2002 Oct; 77: 1044-52

132850 Greenwell, T. J., Venn, S. N., Creighton, S., Leaver, R. B., Woodhouse, C. R. Pregnancy after lower urinary tract reconstruction for congenital abnormalities. BJU Int. 2003 Nov; 92: 773-7

132570 Greenwood, J. Nurse-led clinics for assessing men with lower urinary tract symptoms. Prof Nurse. 2003 Dec; 19: 228-32

128560 Griffiths, C. J., Harding, C., Blake, C., McIntosh, S., Drinnan, M. J., Robson, W. A., Abrams, P., Ramsden, P. D., Pickard, R. S. A nomogram to classify men with lower urinary tract symptoms using urine flow and noninvasive measurement of bladder pressure. J Urol. 2005 Oct; 174: 1323-6; discussion 1326; author reply 1326

136720 Griffiths, C. J., Rix, D., MacDonald, A. M., Drinnan, M. J., Pickard, R. S., Ramsden, P. D. Noninvasive measurement of bladder pressure by controlled inflation of a penile cuff. J Urol. 2002 Mar; 167: 1344-7

128260 Griffiths, D., Derbyshire, S., Stenger, A., Resnick, N. Brain control of normal and overactive bladder. J Urol. 2005 Nov; 174: 1862-7

161720 Griffiths, K., Denis, L., Turkes, A., Morton, M. S. Phytoestrogens and diseases of the prostate gland. Baillieres Clin Endocrinol Metab. 1998 Dec; 12: 625-47

156040 Grimsley, S. J., Khan, M. H., Lennox, E. and Paterson, P. H. Experience with the spanner prostatic stent in patients unfit for surgery: an observational study. J Endourol. 2007; 21: 1093-6

106050 Grise, P., Plante, M., Palmer, J., Martinez-Sagarra, J., Hernandez, C., Schettini, M., Gonzalez-Martin, M., Castineiras, J., Ballanger, P., Teillac, P., Rolo, F., Baena, V., Erdmann, J., Mirone, V. Evaluation of the transurethral ethanol ablation of the prostate (TEAP) for symptomatic benign prostatic hyperplasia (BPH): a European multi-center evaluation. Eur Urol. 2004 Oct; 46: 496-501; discussion 501-2

133730 Grmek, M., Fettich, J. The importance of follow-up of children with vesicoureteral reflux grade 1. Acta Paediatr. 2003 Apr; 92: 435-8

153880 Gronroos, M. H., Bolme, P., Winiarski, J. and Berg, U. B. Long-term renal function following bone marrow transplantation. Bone Marrow Transplant. 2007; 39: 717-23

103110 Gross, A. J., Busse, M., Leonard, J., Schumacher, H. Switch from phytotherapy to tamsulosin in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia (LUTS/BPH). Prostate Cancer Prostatic Dis. 2005; 8: 210-4

122610 Grossfeld, G. D., Coakley, F. V. Benign prostatic hyperplasia: clinical overview and value of diagnostic imaging. Radiol Clin North Am. 2000 Jan; 38: 31-47

165450 Groth, C. G., Backman, L., Morales, J. M., Calne, R., Kreis, H., Lang, P., Touraine, J. L., Claesson, K., Campistol, J. M., Durand, D., Wramner, L., Brattstrom, C., Charpentier, B. Sirolimus (rapamycin)-based therapy in human renal transplantation: similar efficacy and different toxicity compared with cyclosporine. Sirolimus European Renal Transplant Study Group. Transplantation. 1999 Apr 15; 67: 1036-42

139300 Groutz, A., Blaivas, J. G., Chaikin, D. C., Resnick, N. M., Engleman, K., Anzalone, D., Bryzinski, B., Wein, A. J. Noninvasive outcome measures of urinary incontinence and lower urinary tract symptoms: a multicenter study of micturition diary and pad tests. J Urol. 2000 Sep; 164: 698-701

122990 Groutz, A., Blaivas, J. G., Fait, G., Sassone, A. M., Chaikin, D. C., Gordon, D. The significance of the American Urological Association symptom index score in the evaluation of women with bladder outlet obstruction. J Urol. 2000 Jan; 163: 207-11

137800 Groutz, A., Blaivas, J. G., Pies, C., Sassone, A. M. Learned voiding dysfunction (non-neurogenic, neurogenic bladder) among adults. Neurourol Urodyn. 2001; 20: 259-68

163420 Groutz, A., Blaivas, J. G., Sassone, A. M. Detrusor pressure uroflowmetry studies in women: effect of a 7Fr transurethral catheter. J Urol. 2000 Jul; 164: 109-14

135200 Grubb, R. L., 3rd, Sundaram, C. P., Yan, Y., Chen, C., McDougall, E. M., Clayman, R. V. Use of titanium staples during upper tract laparoscopic reconstructive surgery: initial experience. J Urol. 2002 Oct; 168: 1366-9

113680 Grunewald, K., Haun, M., Fiegl, M., Urbanek, M., Muller-Holzner, E., Massoner, A., Riha, K., Propst, A., Marth, C., Gastl, G. Mammaglobin expression in gynecologic malignancies and malignant effusions detected by nested reverse transcriptase-polymerase chain reaction. Lab Invest. 2002 Sep; 82: 1147-53

110540 Grzmil, M., Thelen, P., Hemmerlein, B., Schweyer, S., Voigt, S., Mury, D., Burfeind, P. Bax inhibitor-1 is overexpressed in prostate cancer and its specific down-regulation by RNA interference leads to cell death in human prostate carcinoma cells. Am J Pathol. 2003 Aug; 163: 543-52

132980 Gschwend, J. E. Bladder substitution. Curr Opin Urol. 2003 Nov; 13: 477-82

121280 Gsur, A., Bernhofer, G., Hinteregger, S., Haidinger, G., Schatzl, G., Madersbacher, S., Marberger, M., Vutuc, C., Micksche, M. A polymorphism in the CYP17 gene is associated with prostate cancer risk. Int J Cancer. 2000 Aug 1; 87: 434-7

118420 Gsur, A., Haidinger, G., Hinteregger, S., Bernhofer, G., Schatzl, G., Madersbacher, S., Marberger, M., Vutuc, C., Micksche, M. Polymorphisms of glutathione-S-transferase genes (GSTP1, GSTM1 and GSTT1) and prostate-cancer risk. Int J Cancer. 2001 May 20; 95: 152-5

115470 Gsur, A., Madersbacher, S., Haidinger, G., Schatzl, G., Marberger, M., Vutuc, C., Micksche, M. Vitamin D receptor gene polymorphism and prostate cancer risk. Prostate. 2002 Apr 1; 51: 30-4

113390 Gsur, A., Preyer, M., Haidinger, G., Zidek, T., Madersbacher, S., Schatzl, G., Marberger, M., Vutuc, C., Micksche, M. Polymorphic CAG repeats in the androgen receptor gene, prostate-specific antigen polymorphism and prostate cancer risk. Carcinogenesis. 2002 Oct; 23: 1647-51

116210 Gu, F. Epidemiological survey of benign prostatic hyperplasia and prostatic cancer in China. Chin Med J (Engl). 2000 Apr; 113: 299-302

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

100520 Guan, M., Chen, Y. Aberrant expression of DeltaNp73 in benign and malignant tumours of the prostate: correlation with Gleason score. J Clin Pathol. 2005 Nov; 58: 1175-9

100990 Guan, M., Zhou, X., Soulitzis, N., Spandidos, D. A., Popescu, N. C. Aberrant methylation and deacetylation of deleted in liver cancer-1 gene in prostate cancer: potential clinical applications. Clin Cancer Res. 2006 Mar 1; 12: 1412-9

165370 Guasch, A., Zayas, C. F., Eckman, J. R., Muralidharan, K., Zhang, W., Elsas, L. J. Evidence that microdeletions in the alpha globin gene protect against the development of sickle cell glomerulopathy in humans. J Am Soc Nephrol. 1999 May; 10: 1014-9

161120 Guate, J. L., Fernandez, N., Lanzas, J. M., Escaf, S., Vega, J. A. Expression of p75(LNGFR) and Trk neurotrophin receptors in normal and neoplastic human prostate. BJU Int. 1999 Sep; 84: 495-502

105090 Guay, D. R. Extended-release alfuzosin hydrochloride: a new alpha-adrenergic receptor antagonist for symptomatic benign prostatic hyperplasia. Am J Geriatr Pharmacother. 2004 Mar; 2: 14-23

165840 Guder, W. G., Ivandic, M., Hofmann, W. Physiopathology of proteinuria and laboratory diagnostic strategy based on single protein analysis. Clin Chem Lab Med. 1998 Dec; 36: 935-9

116960 Guess, H. A. Benign prostatic hyperplasia and prostate cancer. Epidemiol Rev. 2001; 23: 152-8

121700 Gujral, S., Abrams, P., Donovan, J. L., Neal, D. E., Brookes, S. T., Chacko, K. N., Wright, M. J., Timoney, A. G., Peters, T. J. A prospective randomized trial comparing transurethral resection of the prostate and laser therapy in men with chronic urinary retention: The CLasP study. J Urol. 2000 Jul; 164: 59-64

133980 Gujral, S., Bell, C. R., Dare, L., Smith, P. J., Persad, R. A. A prospective evaluation of the management of acute pyelonephritis in adults referred to urologists. Int J Clin Pract. 2003 Apr; 57: 238-40

139340 Gumus, E., Miroglu, C., Saporta, L., Basaran, G., Horasanli, K., Tanriverdi, O., Karadag, H. Rectodynamic and radiological assessment in modified mainz pouch II cases. Eur Urol. 2000 Sep; 38: 316-22

156150 Gunes, S., Bagci, H., Sarikaya, S., Bilen, C. Y. and Kara, N. Prostate-specific antigen and 17-hydroxylase polymorphic genotypes in patients with prostate cancer and benign prostatic hyperplasia. DNA Cell Biol. 2007; 26: 873-8

133470 Gunnarsson, R., Omdal, R., Kjellevold, K. H., Ellingsen, C. L. Wegener's granulomatosis of the prostate gland. Rheumatol Int. 2004 Mar; 24: 120-2

153260 Guntupalli, J. N., Padala, S., Gummuluri, A. V., Muktineni, R. K., Byreddy, S. R., Sreerama, L., Kedarisetti, P. C., Angalakuduru, D. P., Satti, B. R., Venkatathri, V., Pullela, V. B. and Gavarasana, S. Trace elemental analysis of normal, benign hypertrophic and cancerous tissues of the prostate gland using the particle-induced X-ray emission technique. Eur J Cancer Prev. 2007; 16: 108-15

155480 Guohua, Z., Wen, Z., Xun, L., Wenzhong, C., Yongzhong, H., Zhaohui, H., Ming, L. and Kaijun, W. The influence of minimally invasive percutaneous nephrolithotomy on renal pelvic pressure in vivo. Surg Laparosc Endosc Percutan Tech. 2007; 17: 307-10

104550 Gupta, A., Aragaki, C., Gotoh, M., Masumori, N., Ohshima, S., Tsukamoto, T., Roehrborn, C. G. Relationship between prostate specific antigen and indexes of prostate volume in Japanese men. J Urol. 2005 Feb; 173: 503-6

152490 Gupta, A., Gupta, S., Pavuk, M. and Roehrborn, C. G. Anthropometric and metabolic factors and risk of benign prostatic hyperplasia: a prospective cohort study of Air Force veterans. Urology. 2006; 68: 1198-205

152110 Gupta, A., Ketchum, N., Roehrborn, C. G., Schecter, A., Aragaki, C. C. and Michalek, J. E. Serum dioxin, testosterone, and subsequent risk of benign prostatic hyperplasia: a prospective cohort study of Air Force veterans. Environ Health Perspect. 2006; 114: 1649-54

150450 Gupta, A., Schecter, A., Aragaki, C. C. and Roehrborn, C. G. Dioxin exposure and benign prostatic hyperplasia. J Occup Environ Med. 2006; 48: 708-14

112480 Gupta, N. P., Doddamani, D., Aron, M., Hemal, A. K. Vapor resection: a good alternative to standard loop resection in the management of prostates >40 cc. J Endourol. 2002 Dec; 16: 767-71

156920 Gupta, N. P., Singh, A. and Kumar, R. Transurethral vapor resection of prostate is a good alternative for prostates >70 g. J Endourol. 2007; 21: 1543-6

100430 Gupta, N., Sivaramakrishna,, Kumar, R., Dogra, P. N., Seth, A. Comparison of standard transurethral resection, transurethral vapour resection and holmium laser enucleation of the prostate for managing benign prostatic hyperplasia of >40 g. BJU Int. 2006 Jan; 97: 85-9

112660 Gupta, S., Hussain, T., MacLennan, G. T., Fu, P., Patel, J., Mukhtar, H. Differential expression of S100A2 and S100A4 during progression of human prostate adenocarcinoma. J Clin Oncol. 2003 Jan 1; 21: 106-12

156240 Gupta, V. K., Singh, A. K. and Gupta, B. Potentiometric sensors enabling fast screening of the benign prostatic hyperplasia drug alfuzosin in pharmaceuticals, urine and serum. Comb Chem High Throughput Screen. 2007; 10: 560-70

109300 Gurdal, M., Tekin, A., Yucebas, E., Sengor, F. Nd:YAG laser ablation plus transurethral resection for large prostates in high-risk patients. Urology. 2003 Nov; 62: 914-7

128820 Gurgoze, M. K., Akarsu, S., Yilmaz, E., Godekmerdan, A., Akca, Z., Ciftci, I., Aygun, A. D. Proinflammatory cytokines and procalcitonin in children with acute pyelonephritis. Pediatr Nephrol. 2005 Oct; 20: 1445-8

160570 Guthrie, R. M., Siegel, R. L. A multicenter, community-based study of doxazosin in the treatment of concomitant hypertension and symptomatic benign prostatic hyperplasia: the Hypertension and BPH Intervention Trial (HABIT). Clin Ther. 1999 Oct; 21: 1732-48

153380 Gutierrez, P., Marrero, D., Hernandez, D., Vivancos, S., Perez-Tamajon, L., Rodriguez de Vera, J. M., Alarco, A. and Gonzalez-Posada, J. M. Surgical complications and renal function after kidney alone or simultaneous pancreas-kidney transplantation: a matched comparative study. Nephrol Dial Transplant. 2007; 22: 1451-5

130440 Guven, A. Intramuscular antibiotic treatment of urinary tract infection. Indian J Pediatr. 2004 Nov; 71: 979-81

119640 Guzman, N. A. Determination of immunoreactive gonadotropin-releasing hormone in serum and urine by on-line immunoaffinity capillary electrophoresis coupled to mass spectrometry. J Chromatogr B Biomed Sci Appl. 2000 Dec 1; 749: 197-213

121020 Gyftopoulos, K., Sotiropoulou, G., Varakis, I., Barbalias, G. A. Cellular distribution of retinoic acid receptor-alpha in benign hyperplastic and malignant human prostates: comparison with androgen, estrogen and progesterone receptor status. Eur Urol. 2000 Sep; 38: 323-30

139690 Haarala, M., Alanen, A., Hietarinta, M., Kiilholma, P. Lower urinary tract symptoms in patients with Sjogren's syndrome and systemic lupus erythematosus. Int Urogynecol J Pelvic Floor Dysfunct. 2000; 11: 84-6

116760 Habermann, H., Ray, V., Habermann, W., Prins, G. S. Alterations in gap junction protein expression in human benign prostatic hyperplasia and prostate cancer. J Urol. 2001 Dec; 166: 2267-72

116060 Habermann, H., Ray, V., Habermann, W., Prins, G. S. Alterations in gap junction protein expression in human benign prostatic hyperplasia and prostate cancer. J Urol. 2002 Feb; 167: 655-60

120550 Habib, F. K., Ross, M., Bayne, C. W. Development of a new in vitro model for the study of benign prostatic hyperplasia. Prostate Suppl. 2000; 9: 15-20

106400 Habib, F. K., Wyllie, M. G. Not all brands are created equal: a comparison of selected components of different brands of Serenoa repens extract. Prostate Cancer Prostatic Dis. 2004; 7: 195-200

120480 Habuchi, T., Liqing, Z., Suzuki, T., Sasaki, R., Tsuchiya, N., Tachiki, H., Shimoda, N., Satoh, S., Sato, K., Kakehi, Y., Kamoto, T., Ogawa, O., Kato, T. Increased risk of prostate cancer and benign prostatic hyperplasia associated with a CYP17 gene polymorphism with a gene dosage effect. Cancer Res. 2000 Oct 15; 60: 5710-3

122600 Habuchi, T., Suzuki, T., Sasaki, R., Wang, L., Sato, K., Satoh, S., Akao, T., Tsuchiya, N., Shimoda, N., Wada, Y., Koizumi, A., Chihara, J., Ogawa, O., Kato, T. Association of vitamin D receptor gene polymorphism with prostate cancer and benign prostatic hyperplasia in a Japanese population. Cancer Res. 2000 Jan 15; 60: 305-8

150240 Haenisch, S., Zimmermann, U., Dazert, E., Wruck, C. J., Dazert, P., Siegmund, W., Kroemer, H. K., Warzok, R. W. and Cascorbi, I. Influence of polymorphisms of ABCB1 and ABCC2 on mRNA and protein expression in normal and cancerous kidney cortex. Pharmacogenomics J. 2007; 7: 56-65

109150 Haese, A., Graefen, M., Steuber, T., Becker, C., Noldus, J., Erbersdobler, A., Huland, E., Huland, H., Lilja, H. Total and Gleason grade 4/5 cancer volumes are major contributors of human kallikrein 2, whereas free prostate specific antigen is largely contributed by benign gland volume in serum from patients with prostate cancer or benign prostatic biopsies. J Urol. 2003 Dec; 170: 2269-73

127360 Haferkamp, A., Freund, T., Wagener, N., Reitz, A., Schurch, B., Doersam, J., Schumacher, S., Bastian, P. J., Buettner, R. J., Mueller, S. C., Hohenfellner, M. Distribution of neuropeptide Y-containing nerves in the neurogenic and non-neurogenic detrusor. BJU Int. 2006 Feb; 97: 393-9

108410 Hafez, B., Hafez, E. S. Andropause: endocrinology, erectile dysfunction, and prostate pathophysiology. Arch Androl. 2004 Mar-Apr; 50: 45-68

121960 Hagerty, J. A., Ginsberg, P. C., Harmon, J. D., Harkaway, R. C. Pretreatment with finasteride decreases perioperative bleeding associated with transurethral resection of the prostate. Urology. 2000 May; 55: 684-9

113780 Haggstrom, S., Torring, N., Moller, K., Jensen, E., Lund, L., Nielsen, J. E., Bergh, A., Damber, J. E. Effects of finasteride on vascular endothelial growth factor. Scand J Urol Nephrol. 2002; 36: 182-7

121330 Hahn, D., Simak, R., Steiner, G. E., Handisurya, A., Susani, M., Marberger, M. Expression of the VEGF-receptor Flt-1 in benign, premalignant and malignant prostate tissues. J Urol. 2000 Aug; 164: 506-10

153940 Hahn, R. G., Fagerstrom, T., Tammela, T. L., Van Vierssen Trip, O., Beisland, H. O., Duggan, A. and Morrill, B. Blood loss and postoperative complications associated with transurethral resection of the prostate after pretreatment with dutasteride. BJU Int. 2007; 99: 587-94

122530 Hahn, R. G., Farahmand, B. Y., Hallin, A., Hammar, N., Persson, P. G. Incidence of acute myocardial infarction and cause-specific mortality after transurethral treatments of prostatic hypertrophy. Urology. 2000 Feb; 55: 236-40

126690 Hahn, R. G., Yin, L., Ekengren, J., Sandfeldt, L. Vascular endothelial growth factor in serum indicates cardiovascular risk in urology patients. Scand J Urol Nephrol. 2006; 40: 144-8

111440 Hai, M. A., Malek, R. S. Photoselective vaporization of the prostate: initial experience with a new 80 W KTP laser for the treatment of benign prostatic hyperplasia. J Endourol. 2003 Mar; 17: 93-6

112150 Haidar, S., Hartmann, R. W. C16 and C17 substituted derivatives of pregnenolone and progesterone as inhibitors of 17alpha-hydroxylase-C17, 20-lyase: synthesis and biological evaluation. Arch Pharm (Weinheim). 2002; 335: 526-34

139880 Haidinger, G., Temml, C., Schatzl, G., Brossner, C., Roehlich, M., Schmidbauer, C. P., Madersbacher, S. Risk factors for lower urinary tract symptoms in elderly men. For the Prostate Study Group of the Austrian Society of Urology. Eur Urol. 2000 Apr; 37: 413-20

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

137710 Hakenberg, O. W., Ebermayer, J., Manseck, A., Wirth, M. P. Application of the Mitrofanoff principle for intermittent self-catheterization in quadriplegic patients. Urology. 2001 Jul; 58: 38-42

138470 Hakenberg, O. W., Froehner, M., Wirth, M. P. Symptomatic paraurethral corpus spongiosum cyst in a male patient. Urology. 2000 Apr; 55: 590

130340 Hakenberg, O. W., Fuessel, S., Richter, K., Froehner, M., Oehlschlaeger, S., Rathert, P., Meye, A., Wirth, M. P. Qualitative and quantitative assessment of urinary cytokeratin 8 and 18 fragments compared with voided urine cytology in diagnosis of bladder carcinoma. Urology. 2004 Dec; 64: 1121-6

118450 Hakenberg, O. W., Helke, C., Manseck, A., Wirth, M. P. Is there a relationship between the amount of tissue removed at transurethral resection of the prostate and clinical improvement in benign prostatic hyperplasia. Eur Urol. 2001 Apr; 39: 412-7

120740 Hakenberg, O. W., Linne, C., Manseck, A., Wirth, M. P. Bladder wall thickness in normal adults and men with mild lower urinary tract symptoms and benign prostatic enlargement. Neurourol Urodyn. 2000; 19: 585-93

112040 Hakenberg, O. W., Pinnock, C. B., Marshall, V. R. Preoperative urodynamic and symptom evaluation of patients undergoing transurethral prostatectomy: analysis of variables relevant for outcome. BJU Int. 2003 Mar; 91: 375-9

131440 Halevy, R., Smolkin, V., Bykov, S., Chervinsky, L., Sakran, W., Koren, A. Power Doppler ultrasonography in the diagnosis of acute childhood pyelonephritis. Pediatr Nephrol. 2004 Sep; 19: 987-91

107910 Halkidou, K., Cook, S., Leung, H. Y., Neal, D. E., Robson, C. N. Nuclear accumulation of histone deacetylase 4 (HDAC4) coincides with the loss of androgen sensitivity in hormone refractory cancer of the prostate. Eur Urol. 2004 Mar; 45: 382-9; author reply 389

111270 Halkidou, K., Gnanapragasam, V. J., Mehta, P. B., Logan, I. R., Brady, M. E., Cook, S., Leung, H. Y., Neal, D. E., Robson, C. N. Expression of Tip60, an androgen receptor coactivator, and its role in prostate cancer development. Oncogene. 2003 Apr 24; 22: 2466-77

116170 Hall, J. A., Maitland, N. J., Stower, M., Lang, S. H. Primary prostate stromal cells modulate the morphology and migration of primary prostate epithelial cells in type 1 collagen gels. Cancer Res. 2002 Jan 1; 62: 58-62

115930 Halpern, E. J., McCue, P. A., Aksnes, A. K., Hagen, E. K., Frauscher, F., Gomella, L. G. Contrast-enhanced US of the prostate with Sonazoid: comparison with whole-mount prostatectomy specimens in 12 patients. Radiology. 2002 Feb; 222: 361-6

103400 Haltbakk, J., Hanestad, B. R., Hunskaar, S. Diversity of urinary symptoms in patients tentatively diagnosed with benign prostatic hyperplasia referred to a urologic clinic in Norway. Scand J Urol Nephrol. 2004; 38: 454-61

101570 Haltbakk, J., Hanestad, B. R., Hunskaar, S. How important are men's lower urinary tract symptoms (LUTS) and their impact on the quality of life (QOL)?. Qual Life Res. 2005 Sep; 14: 1733-41

102680 Haltbakk, J., Hanestad, B. R., Hunskaar, S. Relevance and variability of the severity of incontinence, and increased daytime and night-time voiding frequency, associated with quality of life in men with lower urinary tract symptoms. BJU Int. 2005 Jul; 96: 83-7

112030 Haltbakk, J., Hanestad, B. R., Hunskaar, S. Use and misuse of the concept of quality of life in evaluating surgical treatments for lower urinary tract symptoms. BJU Int. 2003 Mar; 91: 380-8

122790 Halvorsen, O. J., Hostmark, J., Haukaas, S., Hoisaeter, P. A., Akslen, L. A. Prognostic significance of p16 and CDK4 proteins in localized prostate carcinoma. Cancer. 2000 Jan 15; 88: 416-24

131150 Ham, W. S., Jeong, H. J., Han, S. W., Kim, J. H., Kim, D. K. Increased nephron volume is not a cause of supranormal renographic differential renal function in patients with ureteropelvic junction obstruction. J Urol. 2004 Sep; 172: 1108-10

118380 Hamasaki, T., Akasaka, S., Yamaguchi, R., Inatomi, H., Takahashi, K., Matsumoto, T., Okamoto, S. Diagnosis of retrovesical ectopic and hyperplastic prostate tissue by transrectal needle biopsy. Urol Int. 2001; 66: 171-3

114730 Hamasaki, T., Inatomi, H., Katoh, T., Ikuyama, T., Matsumoto, T. Significance of vitamin D receptor gene polymorphism for risk and disease severity of prostate cancer and benign prostatic hyperplasia in Japanese. Urol Int. 2002; 68: 226-31

103460 Hameed, O., Sublett, J., Humphrey, P. A. Immunohistochemical stains for p63 and alpha-methylacyl-CoA racemase, versus a cocktail comprising both, in the diagnosis of prostatic carcinoma: a comparison of the immunohistochemical staining of 430 foci in radical prostatectomy and needle biopsy tissu. Am J Surg Pathol. 2005 May; 29: 579-87

131180 Hamilton, W., Sharp, D. Symptomatic diagnosis of prostate cancer in primary care: a structured review. Br J Gen Pract. 2004 Aug; 54: 617-21

131770 Hamm, R. S., MacDermott, S. M. Renal function in men with lower urinary tract symptoms at first presentation to urology out-patient department. Ann R Coll Surg Engl. 2004 May; 86: 182-5

110840 Hammadeh, M. Y., Madaan, S., Hines, J., Philp, T. 5-year outcome of a prospective randomized trial to compare transurethral electrovaporization of the prostate and standard transurethral resection. Urology. 2003 Jun; 61: 1166-71

140480 Hammadeh, M. Y., Madaan, S., Singh, M., Philp, T. A 3-year follow-up of a prospective randomized trial comparing transurethral electrovaporization of the prostate with standard transurethral prostatectomy. BJU Int. 2000 Oct; 86: 648-51

112860 Hammarsten, J., Hogstedt, B. Calculated fast-growing benign prostatic hyperplasia--a risk factor for developing clinical prostate cancer. Scand J Urol Nephrol. 2002; 36: 330-8

161530 Hammarsten, J., Hogstedt, B. Clinical, anthropometric, metabolic and insulin profile of men with fast annual growth rates of benign prostatic hyperplasia. Blood Press. 1999; 8: 29-36

107570 Hammarsten, J., Hogstedt, B. Clinical, haemodynamic, anthropometric, metabolic and insulin profile of men with high-stage and high-grade clinical prostate cancer. Blood Press. 2004; 13: 47-55

119070 Hammarsten, J., Hogstedt, B. Hyperinsulinaemia as a risk factor for developing benign prostatic hyperplasia. Eur Urol. 2001 Feb; 39: 151-8

100600 Hammarsten, J., Hogstedt, B. Hyperinsulinaemia: a prospective risk factor for lethal clinical prostate cancer. Eur J Cancer. 2005 Dec; 41: 2887-95

126780 Hammelstein, P., Soifer, S. Is 'shy bladder syndrome' (paruresis) correctly classified as social phobia?. J Anxiety Disord. 2006; 20: 296-311

156890 Han, E., Black, L. K. and Lavelle, J. P. Incontinence related to management of benign prostatic hypertrophy. Am J Geriatr Pharmacother. 2007; 5: 324-34

152000 Han, H. Y., Shan, S., Zhang, X., Wang, N. L., Lu, X. P. and Yao, X. S. Down-regulation of prostate specific antigen in LNCaP cells by flavonoids from the pollen of Brassica napus L. Phytomedicine. 2007; 14: 338-43

128490 Han, M. Y., Gibbons, M. D., Belman, A. B., Pohl, H. G., Majd, M., Rushton, H. G. Indications for nonoperative management of ureteroceles. J Urol. 2005 Oct; 174: 1652-5; discussion 1655-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

116000 Hancock, A. A., Buckner, S. A., Brune, M. E., Esbenshade, T. A., Ireland, L. M., Katwala, S., Milicic, I., Meyer, M. D., Kerwin, J. F. , Jr., Williams, M. Preclinical pharmacology of fiduxosin, a novel alpha(1)-adrenoceptor antagonist with uroselective properties. J Pharmacol Exp Ther. 2002 Feb; 300: 478-86

116500 Handisurya, A., Steiner, G. E., Stix, U., Ecker, R. C., Pfaffeneder-Mantai, S., Langer, D., Kramer, G., Memaran-Dadgar, N., Marberger, M. Differential expression of interleukin-15, a pro-inflammatory cytokine and T-cell growth factor, and its receptor in human prostate. Prostate. 2001 Dec 1; 49: 251-62

164290 Hanhela, R., Mustonen, A., Korhonen, I., Salomaki, T. The effects of two rewarming strategies on heat balance and metabolism after coronary artery bypass surgery with moderate hypothermia. Acta Anaesthesiol Scand. 1999 Nov; 43: 979-88

152500 Hansel, D. E., Herawi, M., Montgomery, E. and Epstein, J. I. Spindle cell lesions of the adult prostate. Mod Pathol. 2007; 20: 148-58

131430 Hansen, B. L. Lower urinary tract symptoms (LUTS) and sexual function in both sexes. Eur Urol. 2004 Aug; 46: 229-34

100610 Hanson, J. A., Gillespie, J. W., Grover, A., Tangrea, M. A., Chuaqui, R. F., Emmert-Buck, M. R., Tangrea, J. A., Libutti, S. K., Linehan, W. M., Woodson, K. G. Gene promoter methylation in prostate tumor-associated stromal cells. J Natl Cancer Inst. 2006 Feb 15; 98: 255-61

113740 Hansson, J., Bjartell, A., Gadaleanu, V., Dizeyi, N., Abrahamsson, P. A. Expression of somatostatin receptor subtypes 2 and 4 in human benign prostatic hyperplasia and prostatic cancer. Prostate. 2002 Sep 15; 53: 50-9

116780 Hara, I., Miyake, H., Hara, S., Yamada, Y., Takechi, Y., Fujisawa, M., Okada, H., Arakawa, S., Kamidono, S. Significance of prostate-specific antigen--alpha(1)-antichymotrypsin complex for diagnosis and staging of prostate cancer. Jpn J Clin Oncol. 2001 Oct; 31: 506-9

113400 Hara, I., Miyake, H., Yamanaka, K., Hara, S., Kamidono, S. Serum cathepsin D and its density in men with prostate cancer as new predictors of disease progression. Oncol Rep. 2002 Nov-Dec; 9: 1379-83

117230 Hara, N., Kasahara, T., Kawasaki, T., Bilim, V., Tomita, Y., Obara, K., Takahashi, K. Frequency of PSA-mRNA-bearing cells in the peripheral blood of patients after prostate biopsy. Br J Cancer. 2001 Aug 17; 85: 557-62

150440 Hardell, L., Andersson, S. O., Carlberg, M., Bohr, L., van Bavel, B., Lindstrom, G., Bjornfoth, H. and Ginman, C. Adipose tissue concentrations of persistent organic pollutants and the risk of prostate cancer. J Occup Environ Med. 2006; 48: 700-7

150120 Harding, C. K., Robson, W., Drinnan, M. J., Ramsden, P. D., Griffiths, C. and Pickard, R. S. Variation in invasive and noninvasive measurements of isovolumetric bladder pressure and categorization of obstruction according to bladder volume. J Urol. 2006; 176: 172-6

100080 Hareendran, A., Abraham, L. Using a treatment satisfaction measure in an early trial to inform the evaluation of a new treatment for benign prostatic hyperplasia. Value Health. 2005 Nov-Dec; 8 Suppl 1: S35-40

123470 Harkaway, R. C., Issa, M. M. Medical and minimally invasive therapies for the treatment of benign prostatic hyperplasia. Prostate Cancer Prostatic Dis. 2006; 9: 204-14

119140 Harrison, R. H., 3rd Re: A prospective study of the natural history of hematuria associated with benign prostatic hyperplasia and the effect of finasteride. J Urol. 2000 Nov; 164: 1670-1

161340 Hart, L. E. Physical activity and benign prostatic hyperplasia. Clin J Sport Med. 1999 Apr; 9: 106

120440 Hartmann, R. W., Hector, M., Haidar, S., Ehmer, P. B., Reichert, W., Jose, J. Synthesis and evaluation of novel steroidal oxime inhibitors of P450 17 (17 alpha-hydroxylase/C17-20-lyase) and 5 alpha-reductase types 1 and 2. J Med Chem. 2000 Nov 2; 43: 4266-77

121490 Hartmann, R. W., Reichert, M. New nonsteroidal steroid 5 alpha-reductase inhibitors. Syntheses and structure-activity studies on carboxamide phenylalkyl-substituted pyridones and piperidones. Arch Pharm (Weinheim). 2000 May; 333: 145-53

118430 Hartung, R. Do alpha-blockers prevent the occurrence of acute urinary retention?. Eur Urol. 2001 Mar; 39 Suppl 6: 13-8

127500 Hartung, R., Matzkin, H., Alcaraz, A., Emberton, M., Harving, N., van Moorselaar, J., Elhilali, M., Vallancien, G. Age, comorbidity and hypertensive co-medication do not affect cardiovascular tolerability of 10 mg alfuzosin once daily. J Urol. 2006 Feb; 175: 624-8; discussion 628

134250 Hasan, A. T., Fasihuddin, Q., Sheikh, M. A. Suprapubic cystostomy: urinary tract infection and other short term complications. J Pak Med Assoc. 2002 Dec; 52: 557-60

155420 Hasan, M., Parveen, F., Shamsuzzaman, A. K. and Kibria, M. D. Comparison of efficacy between Tamsulosin and Finasteride on symptomatic Benign Prostatic Hyperplasia. Mymensingh Med J. 2007; 16: 154-9

121290 Hashiba, T., Noguchi, S., Tsuchiya, F., Takeda, M., Masuda, M., Kubota, Y., Hosaka, M. Serum-free coculture of stromal and epithelial cells from benign prostatic hyperplasia with keratinocyte growth factor. Urol Int. 2000; 64: 209-12

153130 Hashim, H., Elhilali, M., Bjerklund Johansen, T. E. and Abrams, P. The immediate and 6-mo reproducibility of pressure-flow studies in men with benign prostatic enlargement. Eur Urol. 2007; 52: 1186-93

161110 Hasholzner, U., Stieber, P., Zimmermann, A., Burges, A., Hofmann, K., Schmitt, U. M., Schmeller, N., Schalhorn, A. Nuclear mitotic apparatus protein (NuMA) in benign and malignant diseases. Anticancer Res. 1999 Jul-Aug; 19: 2415-20

118040 Hassler, E., Krakau, I., Haggarth, L., Norlen, L., Ekman, P. Questioning questions about symptoms of benign prostatic hyperplasia. Fam Pract. 2001 Jun; 18: 328-32

156510 Hatzimouratidis, K. Sildenafil in the treatment of erectile dysfunction: an overview of the clinical evidence. Clin Interv Aging. 2006; 1: 403-14

104810 Hauck, E. W., Battmann, A., Schmelz, H. U., Diemer, T., Miller, J., Weidner, W., Knoblauch, B. Giant multilocular cystadenoma of the prostate: a rare differential diagnosis of benign prostatic hyperplasia. Urol Int. 2004; 73: 365-9

160960 Haussler, O., Epstein, J. I., Amin, M. B., Heitz, P. U., Hailemariam, S. Cell proliferation, apoptosis, oncogene, and tumor suppressor gene status in adenosis with comparison to benign prostatic hyperplasia, prostatic intraepithelial neoplasia, and cancer. Hum Pathol. 1999 Sep; 30: 1077-86

126000 Hautmann, R. E., Volkmer, B. G., Schumacher, M. C., Gschwend, J. E., Studer, U. E. Long-term results of standard procedures in urology: the ileal neobladder. World J Urol. 2006 Aug; 24: 305-14

106070 Hautmann, S., Toma, M., Lorenzo Gomez, M. F., Friedrich, M. G., Jaekel, T., Michl, U., Schroeder, G. L., Huland, H., Juenemann, K. P., Lokeshwar, V. B. Immunocyt and the HA-HAase urine tests for the detection of bladder cancer: a side-by-side comparison. Eur Urol. 2004 Oct; 46: 466-71

105080 Hawrylyshyn, K. A., Michelotti, G. A., Coge, F., Guenin, S. P., Schwinn, D. A. Update on human alpha1-adrenoceptor subtype signaling and genomic organization. Trends Pharmacol Sci. 2004 Sep; 25: 449-55

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

161990 Hayakawa, T., Naya, Y., Kojima, M. Significant changes in volume of seminal vesicles as determined by transrectal sonography in relation to age and benign prostatic hyperplasia. Tohoku J Exp Med. 1998 Nov; 186: 193-204

113550 Hayami, S., Ushiyama, T., Kurita, Y., Kageyama, S., Suzuki, K., Fujita, K. The value of power Doppler imaging to predict the histologic components of benign prostatic hyperplasia. Prostate. 2002 Oct 1; 53: 168-74

116910 Haynes, J. M., Frydenberg, M., Majewski, H. Testosterone- and phorbol ester-stimulated proliferation in human cultured prostatic stromal cells. Cell Signal. 2001 Oct; 13: 703-9

101160 Haynes, J. M., Ventura, S. Current models of human prostate contractility. Clin Exp Pharmacol Physiol. 2005 Oct; 32: 797-804

108490 He, D., Meloche, C. A., Dumas, N. A., Frost, A. R., Falany, C. N. Different subcellular localization of sulphotransferase 2B1b in human placenta and prostate. Biochem J. 2004 May 1; 379: 533-40

155920 He, H. C., Bi, X. C., Dai, Q. S., Wang, S. S., Wei, H. A., Zhong, W. D., Liu, W. H., Jiang, F. N. and Liu, L. S. Detection of pim-1 mRNA in prostate cancer diagnosis. Chin Med J (Engl). 2007; 120: 1491-3

100420 He, W., Shih, W. J. Use of joint models to assess treatment effects on disease markers and clinical events: the Proscar Long-Term Efficacy and Safety Study (PLESS). Clin Trials. 2004; 1: 362-7

122080 He, X. Y., Merz, G., Yang, Y. Z., Pullakart, R., Mehta, P., Schulz, H., Yang, S. Y. Function of human brain short chain L-3-hydroxyacyl coenzyme A dehydrogenase in androgen metabolism. Biochim Biophys Acta. 2000 Apr 12; 1484: 267-77

127270 Heaton, J. P. Lower urinary tract disease: what are we trying to treat and in whom?. Br J Pharmacol. 2006 Feb; 147 Suppl 2: S2-13

163590 Hebert, L. A., Agarwal, G., Sedmak, D. D., Mahan, J. D., Becker, W., Nagaraja, H. N. Proximal tubular epithelial hyperplasia in patients with chronic glomerular proteinuria. Kidney Int. 2000 May; 57: 1962-7

102260 Hedelin, H., Johansson, N., Stroberg, P. Relationship between benign prostatic hyperplasia and lower urinary tract symptoms and correlation between prostate volume and serum prostate-specific antigen in clinical routine. Scand J Urol Nephrol. 2005; 39: 154-9

160270 Hedlund, H., Hedlund, P. Treatment of benign prostatic enlargement with alpha-blockers: an updated review. Scand J Urol Nephrol Suppl. 1999; 203: 9-13

138050 Hedlund, H., Hjelmas, K., Jonsson, O., Klarskov, P., Talja, M. Hydrophilic versus non-coated catheters for intermittent catheterization. Scand J Urol Nephrol. 2001 Feb; 35: 49-53

124120 Hedlund, P. Nitric oxide/cGMP-mediated effects in the outflow region of the lower urinary tract--is there a basis for pharmacological targeting of cGMP?. World J Urol. 2005 Dec; 23: 362-7

105270 Heer, R., Douglas, D., Mathers, M. E., Robson, C. N., Leung, H. Y. Fibroblast growth factor 17 is over-expressed in human prostate cancer. J Pathol. 2004 Dec; 204: 578-86

154040 Heeringa, S. F., Branten, A. J., Deegens, J. K., Steenbergen, E. and Wetzels, J. F. Focal segmental glomerulosclerosis is not a sufficient predictor of renal outcome in patients with membranous nephropathy. Nephrol Dial Transplant. 2007; 22: 2201-7

119410 Heeringa, S. G., Alcser, K. H., Doerr, K., Strawderman, M., Cooney, K., Medbery, B., Schottenfeld, D. Potential selection bias in a community-based study of PSA levels in African-American men. J Clin Epidemiol. 2001 Feb; 54: 142-8

114600 Hegarty, P. K., Hegarty, N. J., Fitzpatrick, J. M. Sexual function in patients with benign prostatic hyperplasia. Curr Urol Rep. 2001 Aug; 2: 292-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

113300 Hegarty, P. K., Watson, R. W., Coffey, R. N., Webber, M. M., Fitzpatrick, J. M. Effects of cyclic stretch on prostatic cells in culture. J Urol. 2002 Nov; 168: 2291-5

106370 Hegarty, P., Watson, R. W., Hegarty, N. J., Coffey, R. N., Fitzpatrick, J. M. Pressure effects on cellular systems: is there a link with benign prostatic hyperplasia?. Urology. 2004 Aug; 64: 195-200

160890 Heil, B. J. Treatment of benign prostatic hyperplasia. J Am Acad Nurse Pract. 1999 Jul; 11: 303-10; quiz 311-3

155290 Heinrich, E., Schiefelbein, F. and Schoen, G. Technique and short-term outcome of green light laser (KTP, 80W) vaporisation of the prostate. Eur Urol. 2007; 52: 1632-7

102870 Helfand, B., Mouli, S., Dedhia, R., McVary, K. T. Management of lower urinary tract symptoms secondary to benign prostatic hyperplasia with open prostatectomy: results of a contemporary series. J Urol. 2006 Dec; 176: 2557-61; discussion 2561

117520 Helke, C., Manseck, A., Hakenberg, O. W., Wirth, M. P. Is transurethral vaporesection of the prostate better than standard transurethral resection?. Eur Urol. 2001 May; 39: 551-7

126700 Hellerstein, S. Acute urinary tract infection--evaluation and treatment. Curr Opin Pediatr. 2006 Apr; 18: 134-8

157230 Helling, T. J. Finasteride therapy for benign prostatic hyperplasia. Cmaj. 2008; 178: 596-7

107880 Hellstrom, W. J. Benign prostatic hyperplasia, sexual function, and overall evaluation of the male patient. J Am Osteopath Assoc. 2004 Feb; 104: S5-10

102690 Hellstrom, W. J., Sikka, S. C. Effects of acute treatment with tamsulosin versus alfuzosin on ejaculatory function in normal volunteers. J Urol. 2006 Oct; 176: 1529-33

107340 Helminiak, J. J. Transurethral resection of the prostate syndrome. Semin Perioper Nurs. 2001 Jan; 10: 43-6

113570 Helpap, B. Nonepithelial tumor-like lesions of the prostate: a never-ending diagnostic problem. Virchows Arch. 2002 Sep; 441: 231-7

118970 Helpap, B., Kollermann, J., Oehler, U. Limiting the diagnosis of atypical small glandular proliferations in needle biopsies of the prostate by the use of immunohistochemistry. J Pathol. 2001 Mar; 193: 350-3

163410 Hemal, A. K., Singh, I., Karan, S. C., Kumar, M., Sharma, M. C., Taneja, P. Retroperitoneal textiloma following laparoscopic-assisted nephro-ureterectomy for lower ureteric cancer, masquerading as a metastatic soft-tissue tumour. Aust N Z J Surg. 2000 Jun; 70: 467-8

125080 Henderson, A., Andreyev, H. J., Stephens, R., Dearnaley, D. Patient and physician reporting of symptoms and health-related quality of life in trials of treatment for early prostate cancer: considerations for future studies. Clin Oncol (R Coll Radiol). 2006 Dec; 18: 735-43

135250 Henderson, A., Cahill, D., Laing, R. W., Langley, S. E. (125)Iodine prostate brachytherapy: outcome from the first 100 consecutive patients and selection strategies incorporating urodynamics. BJU Int. 2002 Oct; 90: 567-72

136310 Henningsohn, L., Wijkstrom, H., Dickman, P. W., Bergmark, K., Steineck, G. Distressful symptoms after radical radiotherapy for urinary bladder cancer. Radiother Oncol. 2002 Feb; 62: 215-25

151580 Henrique, R., Costa, V. L., Cerveira, N., Carvalho, A. L., Hoque, M. O., Ribeiro, F. R., Oliveira, J., Teixeira, M. R., Sidransky, D. and Jeronimo, C. Hypermethylation of Cyclin D2 is associated with loss of mRNA expression and tumor development in prostate cancer. J Mol Med. 2006; 84: 911-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

103570 Henrique, R., Jeronimo, C., Hoque, M. O., Carvalho, A. L., Oliveira, J., Teixeira, M. R., Lopes, C., Sidransky, D. Frequent 14-3-3 sigma promoter methylation in benign and malignant prostate lesions. DNA Cell Biol. 2005 Apr; 24: 264-9

103090 Henrique, R., Jeronimo, C., Hoque, M. O., Nomoto, S., Carvalho, A. L., Costa, V. L., Oliveira, J., Teixeira, M. R., Lopes, C., Sidransky, D. MT1G hypermethylation is associated with higher tumor stage in prostate cancer. Cancer Epidemiol Biomarkers Prev. 2005 May; 14: 1274-8

110070 Henshall, S. M., Afar, D. E., Rasiah, K. K., Horvath, L. G., Gish, K., Caras, I., Ramakrishnan, V., Wong, M., Jeffry, U., Kench, J. G., Quinn, D. I., Turner, J. J., Delprado, W., Lee, C. S., Golovsky, D., Brenner, P. C., O'Neill, G. F., K Expression of the zinc transporter ZnT4 is decreased in the progression from early prostate disease to invasive prostate cancer. Oncogene. 2003 Sep 4; 22: 6005-12

126130 Hentschel, J., Stierkorb, E., Schneider, G., Goedde, S., Siemer, S., Gortner, L. Caudal regression sequence: vascular origin?. J Perinatol. 2006 Jul; 26: 445-7

153640 Heracek, J., Hampl, R., Hill, M., Starka, L., Sachova, J., Kuncova, J., Eis, V., Urban, M. and Mandys, V. Tissue and serum levels of principal androgens in benign prostatic hyperplasia and prostate cancer. Steroids. 2007; 72: 375-80

101990 Herawi, M., Epstein, J. I. Specialized stromal tumors of the prostate: a clinicopathologic study of 50 cases. Am J Surg Pathol. 2006 Jun; 30: 694-704

102740 Herawi, M., Parwani, A. V., Irie, J., Epstein, J. I. Small glandular proliferations on needle biopsies: most common benign mimickers of prostatic adenocarcinoma sent in for expert second opinion. Am J Surg Pathol. 2005 Jul; 29: 874-80

155640 Herbert, Z., Botticher, G., Aschoff, A., Sendemir, E., Zermann, D. H., Arnold, R., Mall, G. and Jirikowski, G. F. Changing caveolin-1 and oxytocin receptor distribution in the ageing human prostate. Anat Histol Embryol. 2007; 36: 361-5

102220 Hermani, A., Hess, J., De Servi, B., Medunjanin, S., Grobholz, R., Trojan, L., Angel, P., Mayer, D. Calcium-binding proteins S100A8 and S100A9 as novel diagnostic markers in human prostate cancer. Clin Cancer Res. 2005 Jul 15; 11: 5146-52

117800 Hermann, M., Berger, P. Hormonal changes in aging men: a therapeutic indication?. Exp Gerontol. 2001 Jul; 36: 1075-82

119810 Hermann, M., Untergasser, G., Rumpold, H., Berger, P. Aging of the male reproductive system. Exp Gerontol. 2000 Dec; 35: 1267-79

151950 Hermida, J. and Tutor, J. C. Comparison of estimated glomerular filtration rates from serum creatinine and cystatin C in patients with impaired creatinine production. Clin Lab. 2006; 52: 483-90

100440 Hernandez, C., Duran, R., Jara, J., Castano, I., Moralejo, M. Controlled-release doxazosin in the treatment of benign prostatic hyperplasia. Prostate Cancer Prostatic Dis. 2005; 8: 375-80

116300 Herrala, A. M., Porvari, K. S., Kyllonen, A. P., Vihko, P. T. Comparison of human prostate specific glandular kallikrein 2 and prostate specific antigen gene expression in prostate with gene amplification and overexpression of prostate specific glandular kallikrein 2 in tumor tissue. Cancer. 2001 Dec 15; 92: 2975-84

123490 Herrmann, T. R., Gross, A. J., Schultheiss, D., Kaufmann, P. M., Jonas, U., Burchardt, M. Transurethral microwave thermotherapy for the treatment of BPH: still a challenger?. World J Urol. 2006 Sep; 24: 389-96

126770 Herthelius, M., Oborn, H. Bladder dysfunction in children and adolescents after renal transplantation. Pediatr Nephrol. 2006 May; 21: 725-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

104640 Herwig, R., Pelzer, A., Horninger, W., Rehder, P., Klocker, H., Ramoner, R., Pinggera, G. M., Gozzi, C., Konwalinka, G., Bartsch, G. Measurement of intracellular versus extracellular prostate-specific antigen levels in peripheral macrophages: a new approach to noninvasive diagnosis of prostate cancer. Clin Prostate Cancer. 2004 Dec; 3: 184-8

114690 Hettiarachchi, J. A., Samadi, A. A., Konno, S., Das, A. K. Holmium laser enucleation for large (greater than 100 mL) prostate glands. Int J Urol. 2002 May; 9: 233-6

122950 Heung, Y. M., Walsh, K., Sriprasad, S., Mulvin, D., Sherwood, R. A. The detection of prostate cells by the reverse transcription-polymerase chain reaction in the circulation of patients undergoing transurethral resection of the prostate. BJU Int. 2000 Jan; 85: 65-9

132160 Hidalgo-Tenorio, C., Jimenez-Alonso, J., de Dios Luna, J., Tallada, M., Martinez-Brocal, A., Sabio, J. M. Urinary tract infections and lupus erythematosus. Ann Rheum Dis. 2004 Apr; 63: 431-7

121780 Hieble, J. P. Adrenoceptor subclassification: an approach to improved cardiovascular therapeutics. Pharm Acta Helv. 2000 Mar; 74: 163-71

115430 Hiipakka, R. A., Zhang, H. Z., Dai, W., Dai, Q., Liao, S. Structure-activity relationships for inhibition of human 5alpha-reductases by polyphenols. Biochem Pharmacol. 2002 Mar 15; 63: 1165-76

104430 Hijazi, R. A., Cunningham, G. R. Andropause: is androgen replacement therapy indicated for the aging male?. Annu Rev Med. 2005; 56: 117-37

113380 Hill, A. G., Njoroge, P. Suprapubic transvesical prostatectomy in a rural Kenyan hospital. East Afr Med J. 2002 Feb; 79: 65-7

107370 Hill, B., Belville, W., Bruskewitz, R., Issa, M., Perez-Marrero, R., Roehrborn, C., Terris, M., Naslund, M. Transurethral needle ablation versus transurethral resection of the prostate for the treatment of symptomatic benign prostatic hyperplasia: 5-year results of a prospective, randomized, multicenter clinical trial. J Urol. 2004 Jun; 171: 2336-40

120820 Hill, M., Bilek, R., Safarik, L., Starka, L. Analysis of relations between serum levels of epitestosterone, estradiol, testosterone, IGF-1 and prostatic specific antigen in men with benign prostatic hyperplasia and carcinoma of the prostate. Physiol Res. 2000; 49 Suppl 1: S113-8

118270 Hillenbrand, M., Bastian, M., Steiner, M., Zingler, C., Muller, M., Wolff, J. M., Seiter, H., Schuff-Werner, P. Serum-to-urinary prostate-specific antigen ratio in patients with benign prostatic hyperplasia and prostate cancer. Anticancer Res. 2000 Nov-Dec; 20: 4995-6

161070 Hilz, H., Noldus, J., Hammerer, P., Buck, F., Luck, M., Huland, H. Molecular heterogeneity of free PSA in sera of patients with benign and malignant prostate tumors. Eur Urol. 1999 Oct; 36: 286-92

137560 Hindley, R. G., Mostafid, A. H., Brierly, R. D., Harrison, N. W., Thomas, P. J., Fletcher, M. S. The 2-year symptomatic and urodynamic results of a prospective randomized trial of interstitial radiofrequency therapy vs transurethral resection of the prostate. BJU Int. 2001 Aug; 88: 217-20

127120 Hirahara, N., Ukimura, O., Ushijima, S., Yamada, Y., Okihara, K., Kawauchi, A., Miki, T. Four-dimensional ultrasonography for dynamic bladder shape visualization and analysis during voiding. J Ultrasound Med. 2006 Mar; 25: 307-13

120230 Hiraoka, Y., Oshita, M., Morikawa, K., Nagata, O., Hahn, K. J., Hahn, A., Okada, K., Taniguchi, T., Muramatsu, I. Characterization of the endothelin receptor subtypes in human prostate. J Cardiovasc Pharmacol. 2000 Nov; 36: S252-4

155020 Hiraoka, Y., Shimizu, Y., Iwamoto, K., Takahashi, H. and Abe, H. Trial of complete detachment of the whole prostate lobes in benign prostate hyperplasia by transurethral enucleation of the prostate. Urol Int. 2007; 79: 50-4

129290 Hirayama, A., Fujimoto, K., Matsumoto, Y., Hirao, Y. Nocturia in men with lower urinary tract symptoms is associated with both nocturnal polyuria and detrusor overactivity with positive response to ice water test. Urology. 2005 Jun; 65: 1064-9

109310 Hirayama, A., Fujimoto, K., Matsumoto, Y., Ozono, S., Hirao, Y. Positive response to ice water test associated with high-grade bladder outlet obstruction in patients with benign prostatic hyperplasia. Urology. 2003 Nov; 62: 909-13

134890 Hirayama, A., Samma, S., Fujimoto, K., Yamaguchi, A., Akiyama, T., Fukui, Y. Comparison of parameters to determine the cause of urinary disturbance in men with prostate volume less than 20 milliliters. Int J Urol. 2002 Oct; 9: 554-9; discussion 560

139500 Hirst, G. H., Ward, J. E. Clinical practice guidelines: reality bites. Med J Aust. 2000 Mar 20; 172: 287-91

102040 Hisamatsu, E., Sekido, N., Tsutsumi, M., Ishikawa, S. A case of a large inguinoscrotal bladder hernia secondary to benign prostatic obstruction. Hinyokika Kiyo. 2005 Jun; 51: 393-7

152750 Hizli, F. and Uygur, M. C. A prospective study of the efficacy of Serenoa repens, tamsulosin, and Serenoa repens plus tamsulosin treatment for patients with benign prostate hyperplasia. Int Urol Nephrol. 2007; 39: 879-86

110830 Hlavaty, J. J., Partin, A. W., Shue, M. J., Mangold, L. A., Derby, J., Javier, T., Kelley, S., Stieg, A., Briggman, J. V., Hass, G. M., Wu, Y. J. Identification and preliminary clinical evaluation of a 50.8-kDa serum marker for prostate cancer. Urology. 2003 Jun; 61: 1261-5

100360 Ho, D. R., Lin, W. Y., Wu, C. F., Shee, J. J., Huang, Y. C., Chen, C. S. Clinical observations of the effect of antidiuretic hormone on nocturia in elderly men. BJU Int. 2005 Dec; 96: 1310-3

165600 Ho, H. H., O'Connor, J. F., Nakajima, S. T., Tieu, J., Overstreet, J. W., Lasley, B. L. Characterization of human chorionic gonadotropin in normal and abnormal pregnancies. Early Pregnancy. 1997 Sep; 3: 213-24

156740 Ho, H. S. and Cheng, C. W. Bipolar transurethral resection of prostate: a new reference standard?. Curr Opin Urol. 2008; 18: 50-5

119990 Hochberg, D. A., Armenakas, N. A., Fracchia, J. A. Relationship of prostate-specific antigen and prostate volume in patients with biopsy proven benign prostatic hyperplasia. Prostate. 2000 Dec 1; 45: 315-9

115550 Hochberg, D. A., Basillote, J. B., Armenakas, N. A., Vasovic, L., Shevchuk, M., Pareek, G., Fracchia, J. A. Decreased suburethral prostatic microvessel density in finasteride treated prostates: a possible mechanism for reduced bleeding in benign prostatic hyperplasia. J Urol. 2002 Apr; 167: 1731-3

123000 Hochreiter, W. W., Duncan, J. L., Schaeffer, A. J. Evaluation of the bacterial flora of the prostate using a 16S rRNA gene based polymerase chain reaction. J Urol. 2000 Jan; 163: 127-30

102580 Hochreiter, W. W., Muller, R. M. Lasers for lower urinary tract symptoms secondary to benign prostatic hyperplasia: when is the fuss worth it?. Curr Urol Rep. 2005 Jul; 6: 257-62

122860 Hochreiter, W. W., Nadler, R. B., Koch, A. E., Campbell, P. L., Ludwig, M., Weidner, W., Schaeffer, A. J. Evaluation of the cytokines interleukin 8 and epithelial neutrophil activating peptide 78 as indicators of inflammation in prostatic secretions. Urology. 2000 Dec 20; 56: 1025-9

113460 Hochreiter, W. W., Thalmann, G. N., Burkhard, F. C., Studer, U. E. Holmium laser enucleation of the prostate combined with electrocautery resection: the mushroom technique. J Urol. 2002 Oct; 168: 1470-4

131330 Hochreiter, W. W., Z'Brun, S. Chronic pelvic pain syndrome and voiding dysfunction. Curr Urol Rep. 2004 Aug; 5: 300-4

106560 Hod, Y. Differential control of apoptosis by DJ-1 in prostate benign and cancer cells. J Cell Biochem. 2004 Aug 15; 92: 1221-33

129850 Hoebeke, P., Selvaggi, G., Ceulemans, P., De Cuypere, G., T'Sjoen, G., Weyers, S., Decaestecker, K., Monstrey, S. Impact of sex reassignment surgery on lower urinary tract function. Eur Urol. 2005 Mar; 47: 398-402

103750 Hoesl, C. E., Woll, E. M., Burkart, M., Altwein, J. E. Erectile dysfunction (ED) is prevalent, bothersome and underdiagnosed in patients consulting urologists for benign prostatic syndrome (BPS). Eur Urol. 2005 Apr; 47: 511-7

121970 Hofer, C., Sauerstein, P., Wolter, C., Scholz, M., Hartung, R., Breul, J. Value of free prostate-specific antigen (Hybritech Tandem-R) in symptomatic patients consulting the urologist. Urol Int. 2000; 64: 18-23

130650 Hoffman, R. M., Adams-Cameron, M. L., Murata, G. H. Misclassifying the indications for prostate-specific antigen testing may bias case-control studies of the efficacy of prostate cancer screening. J Clin Epidemiol. 2004 Oct; 57: 1071-5

105170 Hoffman, R. M., MacDonald, R., Monga, M., Wilt, T. J. Transurethral microwave thermotherapy vs transurethral resection for treating benign prostatic hyperplasia: a systematic review. BJU Int. 2004 Nov; 94: 1031-6

112920 Hoffman, R. M., MacDonald, R., Slaton, J. W., Wilt, T. J. Laser prostatectomy versus transurethral resection for treating benign prostatic obstruction: a systematic review. J Urol. 2003 Jan; 169: 210-5

108260 Hoffman, R. M., MacDonald, R., Wilt, T. J. Laser prostatectomy for benign prostatic obstruction. Cochrane Database Syst Rev. 2004; : CD001987

129790 Hoffman, R. M., Stone, S. N., Espey, D., Potosky, A. L. Differences between men with screening-detected versus clinically diagnosed prostate cancers in the USA. BMC Cancer. 2005 Mar 8; 5: 27

120170 Hoffmann, A. L., de la Rosette, J. J., Wijkstra, H. Intraprostatic temperature monitoring during transurethral microwave thermotherapy: status and future developments. J Endourol. 2000 Oct; 14: 637-42

112300 Hoffmann, A. L., Laguna, M. P., de la Rosette, J. J., Wijkstra, H. Quantification of prostate shrinkage after microwave thermotherapy: a comparison of calculated cell-kill versus 3D transrectal ultrasound planimetry. Eur Urol. 2003 Feb; 43: 181-7

155900 Hofner, K., Burkart, M., Jacob, G. and Jonas, U. Safety and efficacy of tolterodine extended release in men with overactive bladder symptoms and presumed non-obstructive benign prostatic hyperplasia. World J Urol. 2007; 25: 627-33

161050 Hofner, K., Claes, H., De Reijke, T. M., Folkestad, B., Speakman, M. J. Tamsulosin 0.4 mg once daily: effect on sexual function in patients with lower urinary tract symptoms suggestive of benign prostatic obstruction. Eur Urol. 1999 Oct; 36: 335-41

140300 Hofner, K., Jonas, U. Alfuzosin: a clinically uroselective alpha1-blocker. World J Urol. 2002 Apr; 19: 405-12

137130 Hohenfellner, M., Humke, J., Hampel, C., Dahms, S., Matzel, K., Roth, S., Thuroff, J. W., Schultz-Lampel, D. Chronic sacral neuromodulation for treatment of neurogenic bladder dysfunction: long-term results with unilateral implants. Urology. 2001 Dec; 58: 887-92

164050 Hojgaard, I., Fornander, A. M., Nilsson, M. A., Tiselius, H. G. Crystallization during volume reduction of solutions with a composition corresponding to that in the collecting duct: the influence of hydroxyapatite seed crystals and urinary macromolecules. Urol Res. 1999 Dec; 27: 417-25

156050 Hojs Fabjan, T., Hojs, R., Tetickovic, E. and Pecovnik Balon, B. Ischaemic stroke--impact of renal dysfunction on in-hospital mortality. Eur J Neurol. 2007; 14: 1351-6

152170 Hoke, G., Baker, W., Barnswell, C., Bennett, J., Davis, R., Mason, T. and Rayford, W. Racial differences in pathogenetic mechanisms, prevalence, and progression of benign prostatic hyperplasia. Urology. 2006; 68: 924-30

139120 Holc, I., Pahor, A., Krajnc, I. Wegener's granulomatosis--a diagnostic challenge. Wien Klin Wochenschr. 2000 Aug 25; 112: 680-3

128920 Holden, C. A., McLachlan, R. I., Pitts, M., Cumming, R., Wittert, G., Agius, P. A., Handelsman, D. J., de Kretser, D. M. Men in Australia Telephone Survey (MATeS): a national survey of the reproductive health and concerns of middle-aged and older Australian men. Lancet. 2005 Jul 16-22; 366: 218-24

150850 Holland, R., Margel, D., Livne, P. M., Lask, D. M. and Lifshitz, D. A. Retrograde intrarenal surgery as second-line therapy yields a lower success rate. J Endourol. 2006; 20: 556-9

133300 Holm, N. R., Horn, T., Smedts, F., Nordling, J., de la Rossette, J. The detrusor muscle cell in bladder outlet obstruction--ultrastructural and morphometric findings. Scand J Urol Nephrol. 2003; 37: 309-15

161310 Holman, C. D., Wisniewski, Z. S., Semmens, J. B., Rouse, I. L., Bass, A. J. Mortality and prostate cancer risk in 19,598 men after surgery for benign prostatic hyperplasia. BJU Int. 1999 Jul; 84: 37-42

132410 Holman, E., Khan, A. M., Flasko, T., Toth, C., Salah, M. A. Endoscopic management of pediatric urolithiasis in a developing country. Urology. 2004 Jan; 63: 159-62; discussion 162

125010 Holman, R. C., Curns, A. T., Singleton, R. J., Sejvar, J. J., Butler, J. C., Paisano, E. L., Schonberger, L. B., Cheek, J. E. Infectious disease hospitalizations among older American Indian and Alaska Native adults. Public Health Rep. 2006 Nov-Dec; 121: 674-83

135680 Holmes, N. M., Coplen, D. E., Strand, W., Husmann, D., Baskin, L. S. Is bladder dysfunction and incontinence associated with ureteroceles congenital or acquired?. J Urol. 2002 Aug; 168: 718-9

139580 Holtgrewe, H. L. Comparison of therapies for lower urinary tract symptoms. J Urol. 2000 Jul; 164: 71

117650 Holtgrewe, H. L. Surgical management of benign prostatic hyperplasia in 2001--a pause for thought. J Urol. 2001 Jul; 166: 177

151490 Homma, H., Tozawa, K., Yasui, T., Itoh, Y., Hayashi, Y. and Kohri, K. Abnormal glycosylation of serum IgG in patients with IgA nephropathy. Clin Exp Nephrol. 2006; 10: 180-5

101980 Homma, Y. Classification of nocturia in the adult and elderly patient: a review of clinical criteria and selected literature. BJU Int. 2005 Sep; 96 Suppl 1: 14-Aug

119770 Homma, Y. Pressure-flow studies in benign prostatic hyperplasia: to do or not to do for the patient?. BJU Int. 2001 Jan; 87: 19-23

127880 Homma, Y., Yamaguchi, O., Hayashi, K. An epidemiological survey of overactive bladder symptoms in Japan. BJU Int. 2005 Dec; 96: 1314-8

125530 Homma, Y., Yamaguchi, O., Hayashi, K. Epidemiologic survey of lower urinary tract symptoms in Japan. Urology. 2006 Sep; 68: 560-4

140130 Homma, Y., Yamaguchi, O., Kageyama, S., Nishizawa, O., Yoshida, M., Kawabe, K. Nocturia in the adult: classification on the basis of largest voided volume and nocturnal urine production. J Urol. 2000 Mar; 163: 777-81

116600 Homma, Y., Yamaguchi, T., Kondo, Y., Horie, S., Takahashi, S., Kitamura, T. Significance of nocturia in the International Prostate Symptom Score for benign prostatic hyperplasia. J Urol. 2002 Jan; 167: 172-6

102190 Homma, Y., Yoshida, M., Seki, N., Yokoyama, O., Kakizaki, H., Gotoh, M., Yamanishi, T., Yamaguchi, O., Takeda, M., Nishizawa, O. Symptom assessment tool for overactive bladder syndrome--overactive bladder symptom score. Urology. 2006 Aug; 68: 318-23

155240 Hong, D., Zheng, T., Jia-qing, S., Jian, W., Zhi-hong, L. and Lei-shi, L. Nodular glomerular lesion: a later stage of diabetic nephropathy?. Diabetes Res Clin Pract. 2007; 78: 189-95

115170 Hong, S. J., Kim, S. I., Kwon, S. M., Lee, J. R., Chung, B. C. Comparative study of concentration of isoflavones and lignans in plasma and prostatic tissues of normal control and benign prostatic hyperplasia. Yonsei Med J. 2002 Apr; 43: 236-41

110780 Hong, S. J., Ko, W. J., Kim, S. I., Chung, B. H. Identification of baseline clinical factors which predict medical treatment failure of benign prostatic hyperplasia: an observational cohort study. Eur Urol. 2003 Jul; 44: 94-9; discussion 99-100

104620 Hong, S. J., Rayford, W., Valiquette, L., Emberton, M. The importance of patient perception in the clinical assessment of benign prostatic hyperplasia and its management. BJU Int. 2005 Jan; 95: 15-9

101940 Hood, B. L., Darfler, M. M., Guiel, T. G., Furusato, B., Lucas, D. A., Ringeisen, B. R., Sesterhenn, I. A., Conrads, T. P., Veenstra, T. D., Krizman, D. B. Proteomic analysis of formalin-fixed prostate cancer tissue. Mol Cell Proteomics. 2005 Nov; 4: 1741-53

163860 Horiguchi, H., Harada, A., Oguma, E., Sato, M., Homma, Y., Kayama, F., Fukushima, M., Matsushima, K. Cadmium-induced acute hepatic injury is exacerbated in human interleukin-8 transgenic mice. Toxicol Appl Pharmacol. 2000 Mar 15; 163: 231-9

160230 Horiuchi, K., Tsuboi, N., Hattori, T., Yoshida, K., Akimoto, M. The short-term effects of tamsulosin in Japanese men with benign prostatic hyperplasia. Nippon Ika Daigaku Zasshi. 1999 Dec; 66: 382-7

118530 Horiuchi, K., Tsuboi, N., Suzuki, Y., Yoshida, K., Akimoto, M. The short-term effects of terazosin in Japanese men with benign prostatic hyperplasia. J Nippon Med Sch. 2001 Apr; 68: 181-5

132140 Horn, T., Kortmann, B. B., Holm, N. R., Smedts, F., Nordling, J., Kiemeney, L. A., de la Rosette, J. J. Routine bladder biopsies in men with bladder outlet obstruction?. Urology. 2004 Mar; 63: 451-6

118410 Horninger, W., Bartsch, G., Snow, P. B., Brandt, J. M., Partin, A. W. The problem of cutoff levels in a screened population: appropriateness of informing screenees about their risk of having prostate carcinoma. Cancer. 2001 Apr 15; 91: 1667-72

118840 Horninger, W., Volgger, H., Rogatsch, H., Strohmeyer, D., Steiner, H., Hobisch, A., Klocker, H., Bartsch, G. Predictive value of total and percent free prostate specific antigen in high grade prostatic intraepithelial neoplasia lesions: results of the Tyrol Prostate Specific Antigen Screening Project. J Urol. 2001 Apr; 165: 1143-5

102010 Horvath, K., Walter, G., Varga, A., Romics, I. A novel approach to the treatment of benign prostatic hyperplasia. BJU Int. 2006 Jun; 97: 1252-5

107850 Horvath, L. G., Henshall, S. M., Kench, J. G., Turner, J. J., Golovsky, D., Brenner, P. C., O'Neill, G. F., Kooner, R., Stricker, P. D., Grygiel, J. J., Sutherland, R. L. Loss of BMP2, Smad8, and Smad4 expression in prostate cancer progression. Prostate. 2004 May 15; 59: 234-42

105680 Horvath, L. G., Henshall, S. M., Lee, C. S., Kench, J. G., Golovsky, D., Brenner, P. C., O'Neill, G. F., Kooner, R., Stricker, P. D., Grygiel, J. J., Sutherland, R. L. Lower levels of nuclear beta-catenin predict for a poorer prognosis in localized prostate cancer. Int J Cancer. 2005 Jan 20; 113: 415-22

132610 Horwitz, E. M., Uzzo, R. G., Miller, N., Theodorescu, D. Brachytherapy for prostate cancer: follow-up and management of treatment failures. Urol Clin North Am. 2003 Nov; 30: 737-50, viii-ix

123080 Hotston, M., Shukla, N., Bloor, J., Persad, R., Jeremy, J. Y. Pre-clinical evidence for the use of phosphodiesterase-5 inhibitors for treating benign prostatic hyperplasia and lower urinary tract symptoms. BJU Int. 2006 Dec; 98: 1331-2

154060 Howard, D. L., Edwards, B. G., Whitehead, K., Amamoo, M. A. and Godley, P. A. Healthcare practices among blacks and whites with urinary tract symptoms. J Natl Med Assoc. 2007; 99: 404-11

100620 Howe, O., O'Malley, K., Lavin, M., Gardner, R. A., Seymour, C., Lyng, F., Mulvin, D., Quinlan, D. M., Mothersill, C. Cell death mechanisms associated with G2 radiosensitivity in patients with prostate cancer and benign prostatic hyperplasia. Radiat Res. 2005 Nov; 164: 627-34

114560 Hoznek, A., Abbou, C. C. Impact of interventional therapy for benign prostatic hyperplasia on quality of life and sexual function. Curr Urol Rep. 2001 Aug; 2: 311-7

135560 Hsieh, C. H., Chen, R. J., Fang, J. F., Lin, B. C., Hsu, Y. P., Kao, J. L., Kao, Y. C., Yu, P. C., Kang, S. C. Diagnosis and management of bladder injury by trauma surgeons. Am J Surg. 2002 Aug; 184: 143-7

109600 Hsieh, K., Taylor, J. A., Albertsen, P. C. Lower urinary tract symptoms in the older male. Conn Med. 2003 Sep; 67: 487-90

155580 Hsing, A. W., Sakoda, L. C., Chen, J., Chokkalingam, A. P., Sesterhenn, I., Gao, Y. T., Xu, J. and Zheng, S. L. MSR1 variants and the risks of prostate cancer and benign prostatic hyperplasia: a population-based study in China. Carcinogenesis. 2007; 28: 2530-6

125430 Hsu, C. Y., Fang, H. C., Chou, K. J., Chen, C. L., Lee, P. T., Chung, H. M. The clinical impact of bacteremia in complicated acute pyelonephritis. Am J Med Sci. 2006 Oct; 332: 175-80

136780 Hsu, H. L., Lu, C. Y., Tseng, H. Y., Lee, P. I., Lai, H. P., Lin, W. C., Hsieh, Y. C., Lee, C. Y., Huang, L. M. Empirical monotherapy with meropenem in serious bacterial infections in children. J Microbiol Immunol Infect. 2001 Dec; 34: 275-80

113890 Hsu, H. S., Lin, S. Y., Li, M. J., Liang, R. C. Ultrastructural and biophysical studies on protein conformations of epithelium and stroma in benign prostatic hyperplasia before and after transurethral resection of the prostate. Ultrastruct Pathol. 2002 May-Jun; 26: 137-41

118490 Hsu, J. Y., Feldman, D., McNeal, J. E., Peehl, D. M. Reduced 1alpha-hydroxylase activity in human prostate cancer cells correlates with decreased susceptibility to 25-hydroxyvitamin D3-induced growth inhibition. Cancer Res. 2001 Apr 1; 61: 2852-6

164250 Hsu, S. Y. Cloning of two novel mammalian paralogs of relaxin/insulin family proteins and their expression in testis and kidney. Mol Endocrinol. 1999 Dec; 13: 2163-74

129040 Hsu, T. C. Feasibility of colectomy with mini-incision. Am J Surg. 2005 Jul; 190: 48-50

117950 Hsu, T. H., Matin, S. F. Benign prostatic hyperplasia mimicking bladder tumor. Urology. 2001 Jun; 57: 1166

108290 Hu, J. J., Hall, M. C., Grossman, L., Hedayati, M., McCullough, D. L., Lohman, K., Case, L. D. Deficient nucleotide excision repair capacity enhances human prostate cancer risk. Cancer Res. 2004 Feb 1; 64: 1197-201

119020 Hu, W. L., Li, Y. Q., He, H. X., Li, Q. R., Tian, Y., Lai, R. Q., Mei, H. KAI1/CD82 gene expression in benign prostatic hyperplasia and late-stage prostate cancer in Chinese. Asian J Androl. 2000 Sep; 2: 221-4

152790 Hu, X. Y., Xu, Y. M., Chen, X. C., Ping, H., Chen, Z. H. and Zeng, F. Q. Immunohistochemical analysis of Omi/HtrA2 expression in prostate cancer and benign prostatic hyperplasia. Apmis. 2006; 114: 893-8

108440 Huang Foen Chung, J. W., Bohnen, A. M., Pel, J. J., Bosch, J. L., Niesing, R., van Mastrigt, R. Applicability and reproducibility of condom catheter method for measuring isovolumetric bladder pressure. Urology. 2004 Jan; 63: 56-60

130810 Huang Foen Chung, J. W., van Mastrigt, R. Correlation of non-invasive urodynamics with International Prostate Symptom Score (IPSS) and prostate volume. Neurourol Urodyn. 2005; 24: 25-30

104520 Huang, H. F., Murphy, T. F., Shu, P., Barton, A. B., Barton, B. E. Stable expression of constitutively-activated STAT3 in benign prostatic epithelial cells changes their phenotype to that resembling malignant cells. Mol Cancer. 2005 Jan 12; 4: 2

102790 Huang, S. P., Huang, C. Y., Wu, W. J., Pu, Y. S., Chen, J., Chen, Y. Y., Yu, C. C., Wu, T. T., Wang, J. S., Lee, Y. H., Huang, J. K., Huang, C. H., Wu, M. T. Association of vitamin D receptor FokI polymorphism with prostate cancer risk, clinicopathological features and recurrence of prostate specific antigen after radical prostatectomy. Int J Cancer. 2006 Oct 15; 119: 1902-7

104850 Huang, S. P., Wu, W. J., Chang, W. S., Wu, M. T., Chen, Y. Y., Chen, Y. J., Yu, C. C., Wu, T. T., Lee, Y. H., Huang, J. K., Huang, C. H. p53 Codon 72 and p21 codon 31 polymorphisms in prostate cancer. Cancer Epidemiol Biomarkers Prev. 2004 Dec; 13: 2217-24

151130 Huang, W. C., Levey, A. S., Serio, A. M., Snyder, M., Vickers, A. J., Raj, G. V., Scardino, P. T. and Russo, P. Chronic kidney disease after nephrectomy in patients with renal cortical tumours: a retrospective cohort study. Lancet Oncol. 2006; 7: 735-40

103380 Huang, W. J., Chen, K. K., Chang, L. S. Correlation between voiding and erectile function in patients with symptomatic benign prostatic hyperplasia. J Chin Med Assoc. 2005 Apr; 68: 178-82

110010 Huang, X., Lee, C. Regulation of stromal proliferation, growth arrest, differentiation and apoptosis in benign prostatic hyperplasia by TGF-beta. Front Biosci. 2003 Sep 1; 8: s740-9

153410 Huang, Y. C., Lee, C. M., Chen, M., Chung, M. Y., Chang, Y. H., Huang, W. J., Ho, D. M., Pan, C. C., Wu, T. T., Yang, S., Lin, M. W., Hsieh, J. T. and Chen, Y. M. Haplotypes, loss of heterozygosity, and expression levels of glycine N-methyltransferase in prostate cancer. Clin Cancer Res. 2007; 13: 1412-20

126980 Hubert, J., Chammas, M., Larre, S., Feuillu, B., Cheng, F., Beis, J. M., Coissard, A., Andre, J. M. Initial experience with successful totally robotic laparoscopic cystoprostatectomy and ileal conduit construction in tetraplegic patients: report of two cases. J Endourol. 2006 Feb; 20: 139-43

100550 Hudolin, T., Juretic, A., Spagnoli, G. C., Pasini, J., Bandic, D., Heberer, M., Kosicek, M., Cacic, M. Immunohistochemical expression of tumor antigens MAGE-A1, MAGE-A3/4, and NY-ESO-1 in cancerous and benign prostatic tissue. Prostate. 2006 Jan 1; 66: 13-8

106410 Hudson, D. L. Epithelial stem cells in human prostate growth and disease. Prostate Cancer Prostatic Dis. 2004; 7: 188-94

119540 Hudson, D. L., Guy, A. T., Fry, P., O'Hare, M. J., Watt, F. M., Masters, J. R. Epithelial cell differentiation pathways in the human prostate: identification of intermediate phenotypes by keratin expression. J Histochem Cytochem. 2001 Feb; 49: 271-8

140070 Hughes, A. M., Sladden, M. J., Hirst, G. H., Ward, J. E. Community study of uncomplicated lower urinary tract symptoms among male Italien immigrants in Sydney, Australia. Eur Urol. 2000 Feb; 37: 191-8

156220 Hughson, M. D., Samuel, T., Hoy, W. E. and Bertram, J. F. Glomerular volume and clinicopathologic features related to disease severity in renal biopsies of African Americans and whites in the southeastern United States. Arch Pathol Lab Med. 2007; 131: 1665-72

108660 Huidobro, C., Bolmsjo, M., Larson, T., de la Rosette, J., Wagrell, L., Schelin, S., Gorecki, T., Mattiasson, A. Evaluation of microwave thermotherapy with histopathology, magnetic resonance imaging and temperature mapping. J Urol. 2004 Feb; 171: 672-8

152160 Hukkanen, J., Jacob, P., 3rd and Benowitz, N. L. Effect of grapefruit juice on cytochrome P450 2A6 and nicotine renal clearance. Clin Pharmacol Ther. 2006; 80: 522-30

119780 Hulten, J. O., Tran, V. T., Pettersson, G. The control of haemolysis during transurethral resection of the prostate when water is used for irrigation: monitoring absorption by the ethanol method. BJU Int. 2000 Dec; 86: 989-92

164500 Humar, A., Kerr, S., Gillingham, K. J., Matas, A. J. Features of acute rejection that increase risk for chronic rejection. Transplantation. 1999 Oct 27; 68: 1200-3

116030 Hung, C. L., Wu, C. J., Yang, S., Chen, H. H., Lin, J. S. Acute renal failure directly caused by hemolysis associated with transurethral resection of the prostate. Urology. 2002 Jan; 59: 137

133670 Hunter, K. F., Moore, K. N. Diabetes-associated bladder dysfunction in the older adult (CE). Geriatr Nurs. 2003 May-Jun; 24: 138-45

108520 Huppi, K., Chandramouli, G. V. Molecular profiling of prostate cancer. Curr Urol Rep. 2004 Feb; 5: 45-51

113490 Hurle, R., Vavassori, I., Piccinelli, A., Manzetti, A., Valenti, S., Vismara, A. Holmium laser enucleation of the prostate combined with mechanical morcellation in 155 patients with benign prostatic hyperplasia. Urology. 2002 Sep; 60: 449-53

164400 Hurtado, A., Asato, C., Escudero, E., Stromquist, C. S., Urcia, J., Hurtado, M. E., de La Cruz, S., Wener, M. H., Zavala, R., Johnson, R. J. Clinicopathologic correlations in lupus nephritis in Lima, Peru. Nephron. 1999; 83: 323-30

111690 Husain, S. R., Kawakami, K., Kawakami, M., Puri, R. K. Interleukin-4 receptor-targeted cytotoxin therapy of androgen-dependent and -independent prostate carcinoma in xenograft models. Mol Cancer Ther. 2003 Mar; 2: 245-54

164740 Husmann, D., Strand, B., Ewalt, D., Clement, M., Kramer, S., Allen, T. Management of ectopic ureterocele associated with renal duplication: a comparison of partial nephrectomy and endoscopic decompression. J Urol. 1999 Oct; 162: 1406-9

131650 Hussain, P., Deshpande, A., Shridhar, P., Saini, G., Kay, D. The feasibility of telemedicine for the training and supervision of general practitioners performing ultrasound examinations of patients with urinary tract symptoms. J Telemed Telecare. 2004; 10: 180-2

125810 Hussein, A., Rifaat, E., Zaki, A., Abol-Nasr, M. Stenting versus non-stenting after non-complicated ureteroscopic manipulation of stones in bilharzial ureters. Int J Urol. 2006 Jul; 13: 886-90

123440 Hutchison, A., Farmer, R., Chapple, C., Berges, R., Pientka, L., Teillac, P., Borkowski, A., Dobronski, P. Characteristics of patients presenting with LUTS/BPH in six European countries. Eur Urol. 2006 Sep; 50: 555-61; discussion 562

135860 Hvistendahl, G. M., Djurhuus, J. C. Female nocturia. Int Urol Nephrol. 2002; 33: 179-86

137650 Hyman, M. J., Groutz, A., Blaivas, J. G. Detrusor instability in men: correlation of lower urinary tract symptoms with urodynamic findings. J Urol. 2001 Aug; 166: 550-2; discussion 553

150400 Iacopino, F., Angelucci, C., Lama, G., Zelano, G., La Torre, G., D'Addessi, A., Giovannini, C., Bertaccini, A., Macaluso, M. P., Martorana, G. and Sica, G. Apoptosis-related gene expression in benign prostatic hyperplasia and prostate carcinoma. Anticancer Res. 2006; 26: 1849-54

155830 Ibernon, M., Gonzalez-Segura, C., Moreso, F., Goma, M., Seron, D., Fulladosa, X., Torras, J., Garcia-Huete, L., Gil-Vernet, S., Cruzado, J. M., Carrera, M., Duarte, V. and Grinyo, J. M. Donor structural and functional parameters are independent predictors of renal function at 3 months. Transplant Proc. 2007; 39: 2095-8

113920 Ibrahim, A. I., Rashid, M. Comparison of local povidone-iodine antisepsis with parenteral antibacterial prophylaxis for prevention of infective complications of TURP: a prospective randomized controlled study. Eur Urol. 2002 Mar; 41: 250-6

164780 Ichikawa, T., Haradome, H., Hachiya, J., Nitatori, T., Araki, T. Diffusion-weighted MR imaging with single-shot echo-planar imaging in the upper abdomen: preliminary clinical experience in 61 patients. Abdom Imaging. 1999 Sep-Oct; 24: 456-61

156090 Ichino, M., Igawa, Y., Seki, S., Ishizuka, O. and Nishizawa, O. Natural history and etiology of high pressure voiding in male infants. J Urol. 2007; 178: 2561-5; discussion 2565-6

105580 Ichioka, K., Ohara, H., Terada, N., Matsui, Y., Yoshimura, K., Terai, A., Arai, Y. Long-term treatment outcome of tamsulosin for benign prostatic hyperplasia. Int J Urol. 2004 Oct; 11: 870-5

122290 Ichiyanagi, O., Sasagawa, I., Ishigooka, M., Suzuki, Y., Nakada, T. Morphometric analysis of symptomatic benign prostatic hyperplasia with and without bladder outlet obstruction. Urol Res. 2000 Jan; 28: 29-32

161250 Ichiyanagi, O., Sasagawa, I., Ishigooka, M., Suzuki, Y., Nakada, T. Relationship between urodynamic type of obstruction and histological component of the prostate in patients with benign prostatic hyperplasia. Eur Urol. 1999 Sep; 36: 203-6

114710 Ichiyanagi, O., Sasagawa, I., Suzuki, Y., Ishigooka, M., Nakada, T. Relationship between the shape of passive urethral resistance relation and prostatic histology in patients with benign prostatic hyperplasia. Urol Int. 2002; 68: 243-5

113020 Iczkowski, K. A., Pantazis, C. G., McGregor, D. H., Wu, Y., Tawfik, O. W. Telomerase reverse transcriptase subunit immunoreactivity: a marker for high-grade prostate carcinoma. Cancer. 2002 Dec 15; 95: 2487-93

103140 Ikari, O., Leitao, V. A., D'ancona, C. A., Matheus, W. E., Rodrigues Netto, N. , Jr. Intravesical calculus secondary to ethanol gel injection into the prostate. Urology. 2005 May; 65: 1002

163740 Ikegami, H., Iwasaki, H., Ohjimi, Y., Takeuchi, T., Ariyoshi, A., Kikuchi, M. Sarcomatoid carcinoma of the urinary bladder: a clinicopathologic and immunohistochemical analysis of 14 patients. Hum Pathol. 2000 Mar; 31: 332-40

109210 Ikemoto, I., Kiyota, H., Ohishi, Y., Abe, K., Goto, H., Kishimoto, K., Miki, K. Usefulness of tamsulosin hydrochloride and naftopidil in patients with urinary disturbances caused by benign prostatic hyperplasia: a comparative, randomized, two-drug crossover study. Int J Urol. 2003 Nov; 10: 587-94

117610 Ikonen, S., Kivisaari, L., Tervahartiala, P., Vehmas, T., Taari, K., Rannikko, S. Prostatic MR imaging. Accuracy in differentiating cancer from other prostatic disorders. Acta Radiol. 2001 Jul; 42: 348-54

156520 Ikram, M. A., Vernooij, M. W., Hofman, A., Niessen, W. J., van der Lugt, A. and Breteler, M. M. Kidney function is related to cerebral small vessel disease. Stroke. 2008; 39: 55-61

156440 Imai, E., Horio, M., Nitta, K., Yamagata, K., Iseki, K., Tsukamoto, Y., Ito, S., Makino, H., Hishida, A. and Matsuo, S. Modification of the Modification of Diet in Renal Disease (MDRD) Study equation for Japan. Am J Kidney Dis. 2007; 50: 927-37

132340 Imamoglu, M., Cay, A., Sarihan, H., Ahmetoglu, A., Ozdemir, O. Paravesical abscess as an unusual late complication of inguinal hernia repair in children. J Urol. 2004 Mar; 171: 1268-70

150840 Inatomi, J., Matsuoka, K., Fujimaru, R., Nakagawa, A. and Iijima, K. Mechanisms of development and progression of cyanotic nephropathy. Pediatr Nephrol. 2006; 21: 1440-5

154350 Inci, K., Sahin, A., Islamoglu, E., Eren, M. T., Bakkaloglu, M. and Ozen, H. Prospective long-term followup of patients with asymptomatic lower pole caliceal stones. J Urol. 2007; 177: 2189-92

152960 Inglis, S. C., Stewart, S., Papachan, A., Vaghela, V., Libhaber, C., Veriava, Y. and Sliwa, K. Anaemia and renal function in heart failure due to idiopathic dilated cardiomyopathy. Eur J Heart Fail. 2007; 9: 384-90

136020 Inoue, K., Kamada, M., Slaton, J. W., Fukata, S., Yoshikawa, C., Tamboli, P., Dinney, C. P., Shuin, T. The prognostic value of angiogenesis and metastasis-related genes for progression of transitional cell carcinoma of the renal pelvis and ureter. Clin Cancer Res. 2002 Jun; 8: 1863-70

157300 Iori, F., Franco, G., Leonardo, C., Laurenti, C., Tubaro, A., F, D. A., Dini, D. and De Nunzio, C. Bipolar transurethral resection of prostate: clinical and urodynamic evaluation. Urology. 2008; 71: 252-5

101200 Iqbal, N., Chaughtai, N. Evaluation of the diagnostic use of free prostate specific antigen/total prostate specific antigen ratio in detecting prostate cancer. J Pak Med Assoc. 2005 Aug; 55: 318-20

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

109260 Irani, J., Brown, C. T., van der Meulen, J., Emberton, M. A review of guidelines on benign prostatic hyperplasia and lower urinary tract symptoms: are all guidelines the same?. BJU Int. 2003 Dec; 92: 937-42

121050 Irani, J., Goujon, J. M. Asymptomatic inflammation and/or infection in benign prostatic inflammation. BJU Int. 2000 Jun; 85: 1155-6

111720 Irani, J., Lefebvre, O., Murat, F., Dahmani, L., Dore, B. Obesity in relation to prostate cancer risk: comparison with a population having benign prostatic hyperplasia. BJU Int. 2003 Apr; 91: 482-4

122970 Irvine, R. A., Ma, H., Yu, M. C., Ross, R. K., Stallcup, M. R., Coetzee, G. A. Inhibition of p160-mediated coactivation with increasing androgen receptor polyglutamine length. Hum Mol Genet. 2000 Jan 22; 9: 267-74

125360 Irwin, D. E., Milsom, I., Hunskaar, S., Reilly, K., Kopp, Z., Herschorn, S., Coyne, K., Kelleher, C., Hampel, C., Artibani, W., Abrams, P. Population-based survey of urinary incontinence, overactive bladder, and other lower urinary tract symptoms in five countries: results of the EPIC study. Eur Urol. 2006 Dec; 50: 1306-14; discussion 1314-5

127740 Irwin, D. E., Milsom, I., Kopp, Z., Abrams, P., Cardozo, L. Impact of overactive bladder symptoms on employment, social interactions and emotional well-being in six European countries. BJU Int. 2006 Jan; 97: 96-100

122240 Ischia, R., Hobisch, A., Bauer, R., Weiss, U., Gasser, R. W., Horninger, W., Bartsch, G. , Jr., Fuchs, D., Bartsch, G., Winkler, H., Klocker, H., Fischer-Colbrie, R., Culig, Z. Elevated levels of serum secretoneurin in patients with therapy resistant carcinoma of the prostate. J Urol. 2000 Apr; 163: 1161-4; discussion 1164-5

118990 Isen, K., Sinik, Z., Alkibay, T., Sezer, C., Sozen, S., Atilla, S., Ataoglu, O., Isik, S. Magnetic resonance imaging and morphometric histologic analysis of prostate tissue composition in predicting the clinical outcome of terazosin therapy in benign prostatic hyperplasia. Int J Urol. 2001 Feb; 8: 42-8

120000 Ishani, A., MacDonald, R., Nelson, D., Rutks, I., Wilt, T. J. Pygeum africanum for the treatment of patients with benign prostatic hyperplasia: a systematic review and quantitative meta-analysis. Am J Med. 2000 Dec 1; 109: 654-64

104390 Ishiguro, H., Nakaigawa, N., Miyoshi, Y., Fujinami, K., Kubota, Y., Uemura, H. Receptor for advanced glycation end products (RAGE) and its ligand, amphoterin are overexpressed and associated with prostate cancer development. Prostate. 2005 Jun 15; 64: 92-100

112530 Ishizuka, O., Nishizawa, O., Hirao, Y., Ohshima, S. Evidence-based meta-analysis of pharmacotherapy for benign prostatic hypertrophy. Int J Urol. 2002 Nov; 9: 607-12

153430 Isikay, L., Turgay Akgul, K., Nuhoglu, B., Ozdemir, G., Ayyildiz, A., Cavumirza, T. and Germiyanoglu, C. Lower urinary tract symptoms, prostate volume, uroflowmetry, residual urine volume and bladder wall thickness in Turkish men: a comparative analysis. Int Urol Nephrol. 2007; 39: 1131-5

109560 Isisag, A., Nese, N., Ermete, M., Lekili, M., Ayhan, S., Kandiloglu, A. R. Col IV and Fn distribution in prostatic adenocarcinoma and correlation of 67LR, MMP-9 and TIMP-1 expression with Gleason score. Anal Quant Cytol Histol. 2003 Oct; 25: 263-72

114030 Islam, M. A., Kato, H., Hayama, M., Kobayashi, S., Igawa, Y., Ota, H., Nishizawa, O. Are neuroendocrine cells responsible for the development of benign prostatic hyperplasia?. Eur Urol. 2002 Aug; 42: 79-83

135850 Ismaili, K., Avni, F. E., Hall, M. Results of systematic voiding cystourethrography in infants with antenatally diagnosed renal pelvis dilation. J Pediatr. 2002 Jul; 141: 21-4

117590 Isotalo, T., Talja, M., Hellstrom, P., Perttila, I., Valimaa, T., Tormala, P., Tammela, T. L. A double-blind, randomized, placebo-controlled pilot study to investigate the effects of finasteride combined with a biodegradable self-reinforced poly L-lactic acid spiral stent in patients with urinary retention caused by bladder outlet obstruction from. BJU Int. 2001 Jul; 88: 30-4

112490 Isotalo, T., Talja, M., Valimaa, T., Tormala, P., Tammela, T. L. A bioabsorbable self-expandable, self-reinforced poly-L-lactic acid urethral stent for recurrent urethral strictures: long-term results. J Endourol. 2002 Dec; 16: 759-62

122910 Isotalo, T., Talja, M., Valimaa, T., Tormala, P., Tammela, T. L. A pilot study of a bioabsorbable self-reinforced poly L-lactic acid urethral stent combined with finasteride in the treatment of acute urinary retention from benign prostatic enlargement. BJU Int. 2000 Jan; 85: 83-6

113750 Issa, B. In vivo measurement of the apparent diffusion coefficient in normal and malignant prostatic tissues using echo-planar imaging. J Magn Reson Imaging. 2002 Aug; 16: 196-200

153180 Issa, M. M. and Regan, T. S. Medical therapy for benign prostatic hyperplasia--present and future impact. Am J Manag Care. 2007; 13 Suppl 1: S4-9

110210 Issa, M. M., Chun, T., Thwaites, D., Bouet, R., Hall, J., Miller, L. E., Ritenour, C. W. The effect of urethral instrumentation on uroflowmetry. BJU Int. 2003 Sep; 92: 426-8

160760 Issa, M. M., Perez-Brayfield, M., Petros, J. A., Anastasia, K., Labadia, A. J., Miller, L. E. A prospective study of transperineal prostatic block for transurethral needle ablation for benign prostatic hyperplasia: the Emory University Experience. J Urol. 1999 Nov; 162: 1636-9

122850 Issa, M. M., Stein, B., Benson, R., Knoll, L. D., Fay, R. Prospective multicenter study of transperineal prostatic block for transurethral needle ablation of the prostate. Urology. 2000 Dec 20; 56: 1052-5

106350 Issa, M. M., Young, M. R., Bullock, A. R., Bouet, R., Petros, J. A. Dilutional hyponatremia of TURP syndrome: a historical event in the 21st century. Urology. 2004 Aug; 64: 298-301

116080 Isshiki, S., Akakura, K., Komiya, A., Suzuki, H., Kamiya, N., Ito, H. Chromogranin a concentration as a serum marker to predict prognosis after endocrine therapy for prostate cancer. J Urol. 2002 Feb; 167: 512-5

151770 Ito, K., Ohtani, H. and Sawada, Y. Assessment of alpha1-adrenoceptor antagonists in benign prostatic hyperplasia based on the receptor occupancy theory. Br J Clin Pharmacol. 2007; 63: 394-403

128360 Ito, T., Sakakibara, R., Uchiyama, T., Liu, Z., Yamamoto, T., Kashiwado, K., Hattori, T. Lower urinary tract dysfunction in central pontine myelinolysis: possible contribution of the pontine micturition centre. Eur J Neurol. 2005 Oct; 12: 812-3

127340 Ito, T., Sakakibara, R., Uchiyama, T., Zhi, L., Yamamoto, T., Hattori, T. Videomanometry of the pelvic organs: a comparison of the normal lower urinary and gastrointestinal tracts. Int J Urol. 2006 Jan; 13: 29-35

125760 Itoh, H., Kojima, M., Okihara, K., Ukimura, O., Ushijima, S., Kawauchi, A., Miki, T. Significant relationship of time-dependent uroflowmetric parameters to lower urinary tract symptoms as measured by the International Prostate Symptom Score. Int J Urol. 2006 Aug; 13: 1058-65

101100 Ives, E. P., Gomella, L. G., Halpern, E. J. Effect of dutasteride therapy on Doppler US evaluation of prostate: preliminary results. Radiology. 2005 Oct; 237: 197-201

154260 Ix, J. H., Chertow, G. M., Shlipak, M. G., Brandenburg, V. M., Ketteler, M. and Whooley, M. A. Association of fetuin-A with mitral annular calcification and aortic stenosis among persons with coronary heart disease: data from the Heart and Soul Study. Circulation. 2007; 115: 2533-9

102120 Izawa, J. I., Lega, I., Downey, D., Chin, J. L., Luke, P. P. Do all patients with high-grade prostatic intraepithelial neoplasia on initial prostatic biopsy eventually progress to clinical prostate cancer?. BJU Int. 2005 Aug; 96: 320-3

137840 Izes, J. K., Dyer, M. W., Callum, M. G., Bankes, P., Libertino, J. A., Caffrey, J. A. Ca 125 as a marker of tumor activity in advanced urothelial malignancy. J Urol. 2001 Jun; 165: 1908-13

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

165100 Jabbour, M. E., Goldfischer, E. R., Anderson, A. E., Kushner, L., Smith, A. D. Failed endopyelotomy: low expression of TGF beta regardless of the presence or absence of crossing vessels. J Endourol. 1999 May; 13: 295-8

110870 Jackson, P., Ow, K., Yardley, G., Delprado, W., Quinn, D. I., Yang, J. L., Russell, P. J. Downregulation of KAI1 mRNA in localised prostate cancer and its bony metastases does not correlate with p53 overexpression. Prostate Cancer Prostatic Dis. 2003; 6: 174-81

116460 Jacobsen, S. J., Girman, C. J., Lieber, M. M. Natural history of benign prostatic hyperplasia. Urology. 2001 Dec; 58: 5-16; discussion 16

160940 Jacobsen, S. J., Jacobson, D. J., Girman, C. J., Roberts, R. O., Rhodes, T., Guess, H. A., Lieber, M. M. Treatment for benign prostatic hyperplasia among community dwelling men: the Olmsted County study of urinary symptoms and health status. J Urol. 1999 Oct; 162: 1301-6

112130 Jacobsen, S. J., Jacobson, D. J., Rohe, D. E., Girman, C. J., Roberts, R. O., Lieber, M. M. Frequency of sexual activity and prostatic health: fact or fairy tale?. Urology. 2003 Feb; 61: 348-53

128090 Jaffe, W. I., Te, A. E. Overactive bladder in the male patient: epidemiology, etiology, evaluation, and treatment. Curr Urol Rep. 2005 Nov; 6: 410-8

118370 Jagroop, I. A., Mikhailidis, D. P. Doxazosin, an alpha1-adrenoceptor antagonist, inhibits serotonin-induced shape change in human platelets. J Hum Hypertens. 2001 Mar; 15: 203-7

113850 Jakobsson, L. Indwelling catheter treatment and health-related quality of life in men with prostate cancer in comparison with men with benign prostatic hyperplasia. Scand J Caring Sci. 2002 Sep; 16: 264-71

106740 Jakobsson, L., Loven, L., Hallberg, I. R. Micturition problems in relation to quality of life in men with prostate cancer or benign prostatic hyperplasia: comparison with men from the general population. Cancer Nurs. 2004 May-Jun; 27: 218-29

115910 Jakobsson, L., Loven, L., Hallberg, I. R. Sexual problems in men with prostate cancer in comparison with men with benign prostatic hyperplasia and men from the general population. J Clin Nurs. 2001 Jul; 10: 573-82

115210 Jakubczyk, T., Stoklosa, A., Borkowski, A., Habrat, W., Dobrowolski, Z. Transurethral microwave thermotherapy: first experiences in Poland. BJU Int. 2002 May; 89: 767-70

126140 James, N. D., Bloomfield, D., Luscombe, C. The changing pattern of management for hormone-refractory, metastatic prostate cancer. Prostate Cancer Prostatic Dis. 2006; 9: 221-9

154850 James, T. J., Lewis, A. V., Tan, G. D., Altmann, P., Taylor, R. P. and Levy, J. C. Validity of simplified protocols to estimate glomerular filtration rate using iohexol clearance. Ann Clin Biochem. 2007; 44: 369-76

104800 Jankovic, M. M., Kosanovic, M. M. Glycosylation of urinary prostate-specific antigen in benign hyperplasia and cancer: assessment by lectin-binding patterns. Clin Biochem. 2005 Jan; 38: 58-65

160120 Jansen, D. J., Jr., Resch, N. D., Hoffman, R. M. Doxazosin-to-terazosin switch for benign prostatic hyperplasia. Am J Health Syst Pharm. 1999 Jul 1; 56: 1351

138500 Jantausch, B. A., O'Donnell, R., Wiedermann, B. L. Urinary interleukin-6 and interleukin-8 in children with urinary tract infection. Pediatr Nephrol. 2000 Dec; 15: 236-40

126490 Jayadevappa, R., Chhatre, S., Weiner, M., Raziano, D. B. Health resource utilization and medical care cost of acute care elderly unit patients. Value Health. 2006 May-Jun; 9: 186-92

164870 Jayanthi, V. R., Koff, S. A. Long-term outcome of transurethral puncture of ectopic ureteroceles: initial success and late problems. J Urol. 1999 Sep; 162: 1077-80

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111230 Jefferson, K., Persad, R. Benign prostatic hyperplasia and sexual dysfunction. Lancet. 2003 May 3; 361: 1562

126100 Jensen, D., Aasen, S., Talseth, T. Uroflowmetry with simultaneous electromyography versus voiding video cystourethrography. Scand J Urol Nephrol. 2006; 40: 232-7

165220 Jeon, A., Cramer, B. C., Walsh, E., Pushpanathan, C. A spectrum of segmental multicystic renal dysplasia. Pediatr Radiol. 1999 May; 29: 309-15

125500 Jequier, A. M. The importance of diagnosis in the clinical management of infertility in the male. Reprod Biomed Online. 2006 Sep; 13: 331-5

112690 Jeronimo, C., Henrique, R., Campos, P. F., Oliveira, J., Caballero, O. L., Lopes, C., Sidransky, D. Endothelin B receptor gene hypermethylation in prostate adenocarcinoma. J Clin Pathol. 2003 Jan; 56: 52-5

104720 Jeronimo, C., Henrique, R., Hoque, M. O., Mambo, E., Ribeiro, F. R., Varzim, G., Oliveira, J., Teixeira, M. R., Lopes, C., Sidransky, D. A quantitative promoter methylation profile of prostate cancer. Clin Cancer Res. 2004 Dec 15; 10: 8472-8

106820 Jeronimo, C., Henrique, R., Hoque, M. O., Ribeiro, F. R., Oliveira, J., Fonseca, D., Teixeira, M. R., Lopes, C., Sidransky, D. Quantitative RARbeta2 hypermethylation: a promising prostate cancer marker. Clin Cancer Res. 2004 Jun 15; 10: 4010-4

106460 Jeronimo, C., Henrique, R., Oliveira, J., Lobo, F., Pais, I., Teixeira, M. R., Lopes, C. Aberrant cellular retinol binding protein 1 (CRBP1) gene expression and promoter methylation in prostate cancer. J Clin Pathol. 2004 Aug; 57: 872-6

116660 Jeronimo, C., Usadel, H., Henrique, R., Oliveira, J., Lopes, C., Nelson, W. G., Sidransky, D. Quantitation of GSTP1 methylation in non-neoplastic prostatic tissue and organ-confined prostate adenocarcinoma. J Natl Cancer Inst. 2001 Nov 21; 93: 1747-52

112970 Jeronimo, C., Usadel, H., Henrique, R., Silva, C., Oliveira, J., Lopes, C., Sidransky, D. Quantitative GSTP1 hypermethylation in bodily fluids of patients with prostate cancer. Urology. 2002 Dec; 60: 1131-5

114940 Jeronimo, C., Varzim, G., Henrique, R., Oliveira, J., Bento, M. J., Silva, C., Lopes, C., Sidransky, D. I105V polymorphism and promoter methylation of the GSTP1 gene in prostate adenocarcinoma. Cancer Epidemiol Biomarkers Prev. 2002 May; 11: 445-50

154760 Jewett, M. A. and Klotz, L. H. Advances in the medical management of benign prostatic hyperplasia. Cmaj. 2007; 176: 1850-1

119970 Jeyaraj, D. A., Udayakumar, T. S., Rajalakshmi, M., Pal, P. C., Sharma, R. S. Effects of long-term administration of androgens and estrogen on rhesus monkey prostate: possible induction of benign prostatic hyperplasia. J Androl. 2000 Nov-Dec; 21: 833-41

116820 Jiang, Z., Woda, B. A., Rock, K. L., Xu, Y., Savas, L., Khan, A., Pihan, G., Cai, F., Babcook, J. S., Rathanaswami, P., Reed, S. G., Xu, J., Fanger, G. R. P504S: a new molecular marker for the detection of prostate carcinoma. Am J Surg Pathol. 2001 Nov; 25: 1397-404

118320 Jin, B., Conway, A. J., Handelsman, D. J. Effects of androgen deficiency and replacement on prostate zonal volumes. Clin Endocrinol (Oxf). 2001 Apr; 54: 437-45

115440 Jing, C., El-Ghany, M. A., Beesley, C., Foster, C. S., Rudland, P. S., Smith, P., Ke, Y. Tazarotene-induced gene 1 (TIG1) expression in prostate carcinomas and its relationship to tumorigenicity. J Natl Cancer Inst. 2002 Apr 3; 94: 482-90

154140 Johansen, T. E. and Istad, J. A. Long-term cost analysis of treatment options for benign prostatic hyperplasia in Norway. Scand J Urol Nephrol. 2007; 41: 124-31

165670 Johnson, D. W., Saunders, H. J., Field, M. J., Pollock, C. A. In vitro effects of simvastatin on tubulointerstitial cells in a human model of cyclosporin nephrotoxicity. Am J Physiol. 1999 Mar; 276: F467-75

110910 Johnson, T. M., 2nd, Jones, K., Williford, W. O., Kutner, M. H., Issa, M. M., Lepor, H. Changes in nocturia from medical treatment of benign prostatic hyperplasia: secondary analysis of the Department of Veterans Affairs Cooperative Study Trial. J Urol. 2003 Jul; 170: 145-8

155720 Johnson, T. M., 2nd, Burrows, P. K., Kusek, J. W., Nyberg, L. M., Tenover, J. L., Lepor, H. and Roehrborn, C. G. The effect of doxazosin, finasteride and combination therapy on nocturia in men with benign prostatic hyperplasia. J Urol. 2007; 178: 2045-50; discussion 2050-1

134460 Johnstone, P. A., Bloom, T. L., Niemtzow, R. C., Crain, D., Riffenburgh, R. H., Amling, C. L. A prospective, randomized pilot trial of acupuncture of the kidney-bladder distinct meridian for lower urinary tract symptoms. J Urol. 2003 Mar; 169: 1037-9

122590 Jones, A., Fujiyama, C., Turner, K., Fuggle, S., Cranston, D., Bicknell, R., Harris, A. L. Elevated serum vascular endothelial growth factor in patients with hormone-escaped prostate cancer. BJU Int. 2000 Feb; 85: 276-80

131130 Jones, R. A., Perez-Brayfield, M. R., Kirsch, A. J., Grattan-Smith, J. D. Renal transit time with MR urography in children. Radiology. 2004 Oct; 233: 41-50

128700 Jonler, M., Eddy, B., Poulsen, J. Prostate-specific antigen testing in general practice: a survey among 325 general practitioners in Denmark. Scand J Urol Nephrol. 2005; 39: 214-8

163390 Joo, K. W., Chang, S. H., Lee, J. G., Na, K. Y., Kim, Y. S., Ahn, C., Han, J. S., Kim, S., Lee, J. S. Transtubular potassium concentration gradient (TTKG) and urine ammonium in differential diagnosis of hypokalemia. J Nephrol. 2000 Mar -Apr; 13: 120-5

119330 Jordan, J. J., Hanlon, A. L., Al-Saleem, T. I., Greenberg, R. E., Tricoli, J. V. Loss of the short arm of the Y chromosome in human prostate carcinoma. Cancer Genet Cytogenet. 2001 Jan 15; 124: 122-6

133890 Joseph, M. A., Harlow, S. D., Wei, J. T., Sarma, A. V., Dunn, R. L., Taylor, J. M., James, S. A., Cooney, K. A., Doerr, K. M., Montie, J. E., Schottenfeld, D. Risk factors for lower urinary tract symptoms in a population-based sample of African-American men. Am J Epidemiol. 2003 May 15; 157: 906-14

113150 Joseph, M. A., Wei, J. T., Harlow, S. D., Cooney, K. A., Dunn, R. L., Jaffe, C. A., Montie, J. E., Schottenfeld, D. Relationship of serum sex-steroid hormones and prostate volume in African American men. Prostate. 2002 Dec 1; 53: 322-9

134450 Joshi, H. B., Newns, N., Stainthorpe, A., MacDonagh, R. P., Keeley, F. X. , Jr., Timoney, A. G. Ureteral stent symptom questionnaire: development and validation of a multidimensional quality of life measure. J Urol. 2003 Mar; 169: 1060-4

136610 Jothilakshmi, K., Vijayaraghavan, B., Paul, S., Matthai, J. Radiological evaluation of the urinary tract in children with urinary infection. Indian J Pediatr. 2001 Dec; 68: 1131-3

133840 Jourdan, E., Defez, C., Topart, D., Richard, B., Bellabas, H., Fabbro-Peray, P., Jourdan, J., Sotto, A. Evaluation of imipenem 1.5 g daily in febrile patients with short duration neutropenia after chemotherapy for non-leukemic hematologic malignancies and solid tumors: personal experience and review of the literature. Leuk Lymphoma. 2003 Apr; 44: 619-26

153840 Joy, M. S., Hogan, S. L., Thompson, B. D., Finn, W. F. and Nickeleit, V. Cytochrome P450 3A5 expression in the kidneys of patients with calcineurin inhibitor nephrotoxicity. Nephrol Dial Transplant. 2007; 22: 1963-8

130750 Juan, Y. S., Chen, C. K., Jang, M. Y., Shen, J. T., Wang, C. J., Chou, Y. H., Huang, C. H. Foreign body stone in the urinary bladder: a case report. Kaohsiung J Med Sci. 2004 Feb; 20: 90-2

153150 Juan, Y. S., Onal, B., Broadaway, S., Cosgrove, J., Leggett, R. E., Whitbeck, C., De, E., Sokol, R. and Levin, R. M. Effect of castration on male rabbit lower urinary tract tissue enzymes. Mol Cell Biochem. 2007; 301: 227-33

150590 Juhlin, T., Erhardt, L. R., Ottosson, H., Jonsson, B. A. and Hoglund, P. Treatments with losartan or enalapril are equally sensitive to deterioration in renal function from cyclooxygenase inhibition. Eur J Heart Fail. 2007; 9: 191-6

125330 Jung, H., Norby, B., Osther, P. J. Retrograde intrarenal stone surgery for extracorporeal shock-wave lithotripsy-resistant kidney stones. Scand J Urol Nephrol. 2006; 40: 380-4

122900 Jung, K., Brux, B., Lein, M., Rudolph, B., Kristiansen, G., Hauptmann, S., Schnorr, D., Loening, S. A., Sinha, P. Molecular forms of prostate-specific antigen in malignant and benign prostatic tissue: biochemical and diagnostic implications. Clin Chem. 2000 Jan; 46: 47-54

122890 Jung, K., Elgeti, U., Lein, M., Brux, B., Sinha, P., Rudolph, B., Hauptmann, S., Schnorr, D., Loening, S. A. Ratio of free or complexed prostate-specific antigen (PSA) to total PSA: which ratio improves differentiation between benign prostatic hyperplasia and prostate cancer?. Clin Chem. 2000 Jan; 46: 55-62

106620 Jung, K., Lein, M., Stephan, C., Von Hosslin, K., Semjonow, A., Sinha, P., Loening, S. A., Schnorr, D. Comparison of 10 serum bone turnover markers in prostate carcinoma patients with bone metastatic spread: diagnostic and prognostic implications. Int J Cancer. 2004 Sep 20; 111: 783-91

117440 Jung, K., Stephan, C., Elgeti, U., Lein, M., Brux, B., Kristiansen, G., Rudolph, B., Hauptmann, S., Schnorr, D., Loening, S. A., Sinha, P. Molecular forms of prostate-specific antigen in serum with concentrations of total prostate-specific antigen <4 microg/L: are they useful tools for early detection and screening of prostate cancer?. Int J Cancer. 2001 Sep 1; 93: 759-65

118940 Jung, K., Stephan, C., Lein, M., Brux, B., Sinha, P., Schnorr, D., Loening, S. A. Receiver-operating characteristic as a tool for evaluating the diagnostic performance of prostate-specific antigen and its molecular forms--What has to be considered?. Prostate. 2001 Mar 1; 46: 307-10

107930 Jung, K., Stephan, C., Lewandowski, M., Klotzek, S., Jung, M., Kristiansen, G., Lein, M., Loening, S. A., Schnorr, D. Increased cell-free DNA in plasma of patients with metastatic spread in prostate cancer. Cancer Lett. 2004 Mar 18; 205: 173-80

109140 Jung, K., Stephan, C., Semjonow, A., Lein, M., Schnorr, D., Loening, S. A. Serum osteoprotegerin and receptor activator of nuclear factor-kappa B ligand as indicators of disturbed osteoclastogenesis in patients with prostate cancer. J Urol. 2003 Dec; 170: 2302-5

108950 Junker, K., Boerner, D., Schulze, W., Utting, M., Schubert, J., Werner, W. Analysis of genetic alterations in normal bladder urothelium. Urology. 2003 Dec; 62: 1134-8

164880 Kaefer, M., Pabby, A., Kelly, M., Darbey, M., Bauer, S. B. Improved bladder function after prophylactic treatment of the high risk neurogenic bladder in newborns with myelomentingocele. J Urol. 1999 Sep; 162: 1068-71

121890 Kageyama, S., Watanabe, T., Kurita, Y., Ushiyama, T., Suzuki, K., Fujita, K. Can persisting detrusor hyperreflexia be predicted after transurethral prostatectomy for benign prostatic hypertrophy?. Neurourol Urodyn. 2000; 19: 233-40

103970 Kahan, N. R., Blackman, S., Kutz, C., Waitman, D. A. A pharmacoepidemiological approach to investigating inappropriate physician prescribing in a managed care setting in Israel. Am J Manag Care. 2005 Feb; 11: 89-90

151760 Kaitwatcharachai, C. Bedside renal assessment: a comparison of various prediction equations in Thai healthy adults. J Med Assoc Thai. 2006; 89 Suppl 2: S146-50

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

125060 Kajbafzadeh, A. M., Djaladat, H. Extraprostatic papillary cystadenocarcinoma of the prostate. South Med J. 2006 Nov; 99: 1285-6

153060 Kaji, Y., Kuroda, K., Maeda, T., Kitamura, Y., Fujiwara, T., Matsuoka, Y., Tamura, M., Takei, N., Matsuda, T. and Sugimura, K. Anatomical and metabolic assessment of prostate using a 3-Tesla MR scanner with a custom-made external transceive coil: healthy volunteer study. J Magn Reson Imaging. 2007; 25: 517-26

107710 Kakehi, Y., Segawa, T., Wu, X. X., Kulkarni, P., Dhir, R., Getzenberg, R. H. Down-regulation of macrophage inhibitory cytokine-1/prostate derived factor in benign prostatic hyperplasia. Prostate. 2004 Jun 1; 59: 351-6

109230 Kakizaki, H., Ameda, K., Kobayashi, S., Tanaka, H., Shibata, T., Koyanagi, T. Urodynamic effects of alpha1-blocker tamsulosin on voiding dysfunction in patients with neurogenic bladder. Int J Urol. 2003 Nov; 10: 576-81

139780 Kakizaki, H., Koyanagi, T. Current view and status of the treatment of lower urinary tract symptoms and neurogenic lower urinary tract dysfunction. BJU Int. 2000 Apr; 85 Suppl 2: 25-30

137330 Kakizaki, H., Machino, R., Koyanagi, T. Clinical experience in lower urinary tract symptoms. BJU Int. 2001 Sep; 88 Suppl 2: 23-6; discussion 49-50

136620 Kakizaki, H., Matsuura, S., Mitsui, T., Ameda, K., Tanaka, H., Koyanagi, T. Questionnaire analysis on sex difference in lower urinary tract symptoms. Urology. 2002 Jan; 59: 58-62

134550 Kakizaki, H., Moriya, K., Ameda, K., Shibata, T., Tanaka, H., Koyanagi, T. Diameter of the external urethral sphincter as a predictor of detrusor-sphincter incoordination in children: comparative study of voiding cystourethrography. J Urol. 2003 Feb; 169: 655-8

127390 Kalsi, V., Apostolidis, A., Popat, R., Gonzales, G., Fowler, C. J., Dasgupta, P. Quality of life changes in patients with neurogenic versus idiopathic detrusor overactivity after intradetrusor injections of botulinum neurotoxin type A and correlations with lower urinary tract symptoms and urodynamic changes. Eur Urol. 2006 Mar; 49: 528-35

139430 Kamai, T., Takagi, K., Asami, H., Ito, Y., Arai, K., Yoshida, K. I. Prognostic significance of p27Kip1 and Ki-67 expression in carcinoma of the renal pelvis and ureter. BJU Int. 2000 Jul; 86: 14-9

150410 Kamar, N., Esposito, L., Ribes, D., Tkaczuk, J., Cointault, O., Lavayssiere, L., Abbal, M., Durand, D. and Rostaing, L. Effects of intraoperative versus postoperative administration of rabbit antithymocyte antibodies on 1-year renal function in renal transplant patients. Exp Clin Transplant. 2006; 4: 429-38

109690 Kamat, N. Transurethral resection of prostrate and suprapubic ballistic vesicolithotrity for benign prostatic hyperplasia with vesical calculi. J Endourol. 2003 Sep; 17: 505-9; discussion 509

102590 Kamat, N. N. Comparison of standard transurethral resection, transurethral vapour resection and holmium laser enucleation of the prostate for managing benign prostatic hyperplasia of >40 g. BJU Int. 2006 Oct; 98: 918

125270 Kamel, E. M., Jichlinski, P., Prior, J. O., Meuwly, J. Y., Delaloye, J. F., Vaucher, L., Malterre, J., Castaldo, S., Leisinger, H. J., Delaloye, A. B. Forced diuresis improves the diagnostic accuracy of 18F-FDG PET in abdominopelvic malignancies. J Nucl Med. 2006 Nov; 47: 1803-7

123060 Kaminetsky, J. C. Comorbid LUTS and erectile dysfunction: optimizing their management. Curr Med Res Opin. 2006 Dec; 22: 2497-506

103910 Kamoto, T., Isogawa, Y., Shimizu, Y., Minamiguchi, S., Kinoshita, H., Kakehi, Y., Mitsumori, K., Yamamoto, S., Habuchi, T., Kato, T., Ogawa, O. Association of a genetic polymorphism of the E-cadherin gene with prostate cancer in a Japanese population. Jpn J Clin Oncol. 2005 Mar; 35: 158-61

111190 Kamradt, J., Drosse, C., Kalkbrenner, S., Rohde, V., Lensch, R., Lehmann, J., Fixemer, T., Bonkhoff, H., Stoeckle, M., Wullich, B. Telomerase activity and telomerase subunit gene expression levels are not related in prostate cancer: a real-time quantification and in situ hybridization study. Lab Invest. 2003 May; 83: 623-33

109090 Kan, I. D., Kirillov, S. A., Tedeev, V. V. Advantages of transurethral rotoresection versus standard transurethral resection in the management of benign hyperplasia of the prostate. J Endourol. 2003 Nov; 17: 795-7

121160 Kanamaru, H., Zhang, Y. H., Takahashi, M., Nakamura, N., Ishida, H., Akino, H., Muranaka, K., Okada, K. Analysis of the mechanism of discrepant nuclear morphometric results comparing preoperative biopsy and prostatectomy specimens. Urology. 2000 Aug 1; 56: 342-5

104410 Kanao, K., Kikuchi, E., Nakashima, J., Horiguchi, Y., Nakagawa, K., Oya, M., Ohigashi, T., Marumo, K., Murai, M. Three-dimensional ultrasonography in evaluation of benign prostatic hyperplasia. Int J Urol. 2004 Dec; 11: 1087-91

150760 Kanda, Y., Hyo, R., Yamashita, T., Fujimaki, K., Oshima, K., Onoda, M., Mori, T., Sakura, T., Tanaka, M., Sakai, M., Taguchi, J., Kurakawa, M., Maruta, A., Okamoto, S. and Sakamaki, H. Effect of blood cyclosporine concentration on the outcome of hematopoietic stem cell transplantation from an HLA-matched sibling donor. Am J Hematol. 2006; 81: 838-44

126090 Kanellopoulos, T. A., Salakos, C., Spiliopoulou, I., Ellina, A., Nikolakopoulou, N. M., Papanastasiou, D. A. First urinary tract infection in neonates, infants and young children: a comparative study. Pediatr Nephrol. 2006 Aug; 21: 1131-7

132550 Kaneyama, K., Yamataka, A., Satake, S., Yanai, T., Lane, G. J., Kaneko, K., Yamashiro, Y., Miyano, T. Associated urologic anomalies in children with solitary kidney. J Pediatr Surg. 2004 Jan; 39: 85-7

107080 Kang, D., Andriole, G. L., Van De Vooren, R. C., Crawford, D., Chia, D., Urban, D. A., Reding, D., Huang, W. Y., Hayes, R. B. Risk behaviours and benign prostatic hyperplasia. BJU Int. 2004 Jun; 93: 1241-5

154190 Kang, D., Chokkalingam, A. P., Gridley, G., Nyren, O., Johansson, J. E., Adami, H. O., Silverman, D. and Hsing, A. W. Benign prostatic hyperplasia and subsequent risk of bladder cancer. Br J Cancer. 2007; 96: 1475-9

100330 Kang, J. U., Koo, S. H., Jeong, T. E., Kwon, K. C., Park, J. W., Jeon, C. H. Multitarget fluorescence in situ hybridization and melanoma antigen genes analysis in primary bladder carcinoma. Cancer Genet Cytogenet. 2006 Jan 1; 164: 32-8

164940 Kano, K., Kyo, K., Yamada, Y., Ito, S., Ando, T., Arisaka, O. Comparison between pre- and posttreatment clinical and renal biopsies in children receiving low dose ciclosporine-A for 2 years for steroid-dependent nephrotic syndrome. Clin Nephrol. 1999 Jul; 52: 19-24

118540 Kanoh, Y., Ohtani, N., Mashiko, T., Ohtani, S., Nishikawa, T., Egawa, S., Baba, S., Ohtani, H. Levels of alpha 2 macroglobulin can predict bone metastases in prostate cancer. Anticancer Res. 2001 Jan-Feb; 21: 551-6

118580 Kanoh, Y., Ohtani, N., Ohara, T., Mashiko, T., Ohtani, S., Egawa, S., Baba, S., Ohtani, H. Progression of prostate cancer: diagnostic and prognostic utility of prostate-specific antigen, alpha2-macroglobulin, and their complexes. Oncol Rep. 2001 May-Jun; 8: 515-9

132630 Kantele, A., Mottonen, T., Ala-Kaila, K., Arvilommi, H. S. P fimbria-specific B cell responses in patients with urinary tract infection. J Infect Dis. 2003 Dec 15; 188: 1885-91

116390 Kaplan, S. A. 5alpha-reductase inhibitors: what role should they play?. Urology. 2001 Dec; 58: 65-70; discussion 70

108320 Kaplan, S. A. Benign prostatic hyperplasia management--statistical significance may not translate into clinical relevance. J Urol. 2004 Mar; 171: 1207-8

114550 Kaplan, S. A. Benign prostatic hyperplasia: many new options, same old approach. Curr Urol Rep. 2000 Aug; 1: 83

103210 Kaplan, S. A. Benign prostatic hyperplasia: patient perceptions and financial reality regarding the aging American prostate. J Urol. 2005 Jun; 173: 1852

101860 Kaplan, S. A. Correlation between lower urinary tract symptoms and urethral function in benign prostatic hyperplasia. J Urol. 2005 Sep; 174: 1010-1

100900 Kaplan, S. A. Effect of dutasteride on the detection of prostate cancer in men with benign prostatic hyperplasia. J Urol. 2005 Nov; 174: 1904-5

109350 Kaplan, S. A. Medical therapy for asymptomatic men with benign prostatic hyperplasia: primum non nocere. Urology. 2003 Nov; 62: 784-5

101840 Kaplan, S. A. Single-blind, randomized controlled study of the clinical and urodynamic effects of an alpha-blocker (naftopidil) and phytotherapy (eviprostat) in the treatment of benign prostatic hyperplasia. J Urol. 2005 Sep; 174: 1011

103190 Kaplan, S. A. The relation of lower urinary tract symptoms with life-style factors and objective measures of benign prostatic enlargement and obstruction: an Italian survey. J Urol. 2005 Jun; 173: 2058

100880 Kaplan, S. A. Three-dimensional ultrasonography in evaluation of benign prostatic hyperplasia. J Urol. 2005 Nov; 174: 1904

107980 Kaplan, S. A. Use of alpha-adrenergic inhibitors in treatment of benign prostatic hyperplasia and implications on sexual function. Urology. 2004 Mar; 63: 428-34

101090 Kaplan, S. A., DE Rose, A. F., Kirby, R. S., O'leary, M. P., McVary, K. T. Beneficial effects of extended-release doxazosin and doxazosin standard on sexual health. BJU Int. 2006 Mar; 97: 559-66

152980 Kaplan, S. A., Gonzalez, R. R. and Te, A. E. Combination of alfuzosin and sildenafil is superior to monotherapy in treating lower urinary tract symptoms and erectile dysfunction. Eur Urol. 2007; 51: 1717-23

117980 Kaplan, S. A., Holtgrewe, H. L., Bruskewitz, R., Saltzman, B., Mobley, D., Narayan, P., Lund, R. H., Weiner, S., Wells, G., Cook, T. J., Meehan, A., Waldstreicher, J. Comparison of the efficacy and safety of finasteride in older versus younger men with benign prostatic hyperplasia. Urology. 2001 Jun; 57: 1073-7

100250 Kaplan, S. A., McConnell, J. D., Roehrborn, C. G., Meehan, A. G., Lee, M. W., Noble, W. R., Kusek, J. W., Nyberg, L. M. , Jr. Combination therapy with doxazosin and finasteride for benign prostatic hyperplasia in patients with lower urinary tract symptoms and a baseline total prostate volume of 25 ml or greater. J Urol. 2006 Jan; 175: 217-20; discussion 220-1

100070 Kaplan, S. A., Neutel, J. Vasodilatory factors in treatment of older men with symptomatic benign prostatic hyperplasia. Urology. 2006 Feb; 67: 225-31

123090 Kaplan, S. A., Roehrborn, C. G., Rovner, E. S., Carlsson, M., Bavendam, T., Guan, Z. Tolterodine and tamsulosin for treatment of men with lower urinary tract symptoms and overactive bladder: a randomized controlled trial. JAMA. 2006 Nov 15; 296: 2319-28

140020 Kaplan, S. A., Stifelman, M., Avillo, C., Reis, R. B., Te, A. E. Detrusor contraction duration may predict response to alpha-blocker therapy for lower urinary tract symptoms. Eur Urol. 2000 Mar; 37: 314-7

124130 Kaplan, S. A., Walmsley, K., Te, A. E. Tolterodine extended release attenuates lower urinary tract symptoms in men with benign prostatic hyperplasia. J Urol. 2005 Dec; 174: 2273-5. discussion 2275-6

120720 Kaplan, S., Garvin, D., Gilhooly, P., Koppel, M., Labasky, R., Milsten, R., Reddy, P., Rosenberg, S., Sussman, D., White, C., Lee, M., Pappas, F., Waldstreicher, J. Impact of baseline symptom severity on future risk of benign prostatic hyperplasia-related outcomes and long-term response to finasteride. The Pless Study Group. Urology. 2000 Oct 1; 56: 610-6

100280 Kapoor, N., Surange, S., Gupta, K. N., Husainy, M. A., Faizi, M. Diagnosis of malignancy of prostate. Indian J Pathol Microbiol. 2004 Apr; 47: 186-8

117490 Kapoor, R., Dubey, D., Kumar, A., Zaman, W. Modified bulbar urethral sling procedure for the treatment of male sphincteric incontinence. J Endourol. 2001 Jun; 15: 545-9

120110 Kapoor, R., Lai, R. S., Liatsikos, E. N., Dinlenc, C. Z., Badlani, G. H. Do prostatic stents solve the problem of retention after transurethral microwave thermotherapy?. J Endourol. 2000 Oct; 14: 683-7

122680 Kapoor, R., Liatsikos, E. N., Badlani, G. Endoprostatic stents for management of benign prostatic hyperplasia. Curr Opin Urol. 2000 Jan; 10: 19-22

120600 Kapur, S. A medical hypothesis: phosphorus balance and prostate cancer. Cancer Invest. 2000; 18: 664-9

160790 Kapur, S. Phosphorus balance and prostate cancer. Indian J Exp Biol. 1999 Jul; 37: 623-6

133680 Karam, M., Feustel, P. J., Goldfarb, C. R., Kogan, B. A. Diuretic renogram clearance half-times in the diagnosis of obstructive uropathy: effect of age and previous surgery. Nucl Med Commun. 2003 Jul; 24: 797-807

128400 Karaman, M. I., Kaya, C., Caskurlu, T., Guney, S., Ergenekon, E. Urodynamic findings in children with cerebral palsy. Int J Urol. 2005 Aug; 12: 717-20

102000 Karaman, M. I., Kaya, C., Ozturk, M., Gurdal, M., Kirecci, S., Pirincci, N. Comparison of transurethral vaporization using PlasmaKinetic energy and transurethral resection of prostate: 1-year follow-up. J Endourol. 2005 Jul-Aug; 19: 734-7

109760 Karan, D., Lin, F. C., Bryan, M., Ringel, J., Moniaux, N., Lin, M. F., Batra, S. K. Expression of ADAMs (a disintegrin and metalloproteases) and TIMP-3 (tissue inhibitor of metalloproteinase-3) in human prostatic adenocarcinomas. Int J Oncol. 2003 Nov; 23: 1365-71

103720 Karanth, N. S., Crausman, R. S., De Palo, V. A. Deep venous thrombosis as a consequence of benign prostatic hypertrophy. Med Health R I. 2005 Jan; 88: 18-9

130830 Karlsson, J., Eklund, P. A one-step approach to data retrieval, analysis and documentation. Stud Health Technol Inform. 2002; 90: 320-4

165390 Karpinski, J., Lajoie, G., Cattran, D., Fenton, S., Zaltzman, J., Cardella, C., Cole, E. Outcome of kidney transplantation from high-risk donors is determined by both structure and function. Transplantation. 1999 Apr 27; 67: 1162-7

112630 Kassabian, V. S. Sexual function in patients treated for benign prostatic hyperplasia. Lancet. 2003 Jan 4; 361: 60-2

121740 Kassen, A., Berges, R., Senge, T. Effect of beta-sitosterol on transforming growth factor-beta-1 expression and translocation protein kinase C alpha in human prostate stromal cells in vitro. Eur Urol. 2000 Jun; 37: 735-41

104890 Kastner, C., Hochreiter, W., Huidobro, C., Cabezas, J., Miller, P. Cooled transurethral microwave thermotherapy for intractable chronic prostatitis--results of a pilot study after 1 year. Urology. 2004 Dec; 64: 1149-54

123290 Kasturi, S., Russell, S., McVary, K. T. Metabolic syndrome and lower urinary tract symptoms secondary to benign prostatic hyperplasia. Curr Urol Rep. 2006 Jul; 7: 288-92

154790 Katayama, Y., Haraoka, J., Hirabayashi, H., Kawamata, T., Kawamoto, K., Kitahara, T., Kojima, J., Kuroiwa, T., Mori, T., Moro, N., Nagata, I., Ogawa, A., Ohno, K., Seiki, Y., Shiokawa, Y., Teramoto, A., Tominaga, T. and Yoshimine, T. A randomized controlled trial of hydrocortisone against hyponatremia in patients with aneurysmal subarachnoid hemorrhage. Stroke. 2007; 38: 2373-5

106810 Katenkamp, K., Berndt, A., Hindermann, W., Wunderlich, H., Haas, K. M., Borsi, L., Zardi, L., Kosmehl, H. mRNA expression and protein distribution of the unspliced tenascin-C isoform in prostatic adenocarcinoma. J Pathol. 2004 Jul; 203: 771-9

113290 Kato, T., Tsukamoto, E., Kuge, Y., Takei, T., Shiga, T., Shinohara, N., Katoh, C., Nakada, K., Tamaki, N. Accumulation of. Eur J Nucl Med Mol Imaging. 2002 Nov; 29: 1492-5

100180 Katona, T. M., Neubauer, B. L., Iversen, P. W., Zhang, S., Baldridge, L. A., Cheng, L. Elevated expression of angiogenin in prostate cancer and its precursors. Clin Cancer Res. 2005 Dec 1; 11: 8358-63

111950 Katz, A. E. Flavonoid and botanical approaches to prostate health. J Altern Complement Med. 2002 Dec; 8: 813-21

109270 Kaufman, J. M. The effect of androgen supplementation therapy on the prostate. Aging Male. 2003 Sep; 6: 166-74

100870 Kaushal, V., Kohli, M., Dennis, R. A., Siegel, E. R., Chiles, W. W., Mukunyadzi, P. Thrombin receptor expression is upregulated in prostate cancer. Prostate. 2006 Feb 15; 66: 273-82

156770 Kaushal, V., Mukunyadzi, P., Siegel, E. R., Dennis, R. A., Johnson, D. E. and Kohli, M. Expression of tissue factor in prostate cancer correlates with malignant phenotype. Appl Immunohistochem Mol Morphol. 2008; 16: 1-6

123270 Kawabe, K., Yoshida, M., Homma, Y. Silodosin, a new alpha1A-adrenoceptor-selective antagonist for treating benign prostatic hyperplasia: results of a phase III randomized, placebo-controlled, double-blind study in Japanese men. BJU Int. 2006 Nov; 98: 1019-24

127770 Kawashima, H., Kobayashi, K., Aritaki, K., Takami, T., Ioi, H., Kashiwagi, Y., Takekuma, K., Hoshika, A. Diagnosis and evaluation of febrile infants under 4 months of age in Japan by using RT-PCR for enterovirus. J Infect. 2006 Jul; 53: 16-20

137090 Kawauchi, A., Takahara, S., Sada, M., Goto, R., Nakatani, T., Miki, T. Susceptibility to vesicoureteral reflux in Japanese is linked to HLA-DR antigen. Urology. 2001 Dec; 58: 1036-40

152540 Kaya, K., Oguz, M., Akar, A. R., Durdu, S., Aslan, A., Erturk, S., Tasoz, R. and Ozyurda, U. The effect of sodium nitroprusside infusion on renal function during reperfusion period in patients undergoing coronary artery bypass grafting: a prospective randomized clinical trial. Eur J Cardiothorac Surg. 2007; 31: 290-7

112390 Kayashima, T., Yamasaki, K., Yamada, T., Sakai, H., Miwa, N., Ohta, T., Yoshiura, K., Matsumoto, N., Nakane, Y., Kanetake, H., Ishino, F., Niikawa, N., Kishino, T. The novel imprinted carboxypeptidase A4 gene (CPA4) in the 7q32 imprinting domain. Hum Genet. 2003 Mar; 112: 220-6

115090 Kearney, M. C., Bingham, J. B., Bergland, R., Meade-D'Alisera, P., Puchner, P. J. Clinical predictors in the use of finasteride for control of gross hematuria due to benign prostatic hyperplasia. J Urol. 2002 Jun; 167: 2489-91

117940 Keay, S. K., Zhang, C. O., Shoenfelt, J., Erickson, D. R., Whitmore, K., Warren, J. W., Marvel, R., Chai, T. Sensitivity and specificity of antiproliferative factor, heparin-binding epidermal growth factor-like growth factor, and epidermal growth factor as urine markers for interstitial cystitis. Urology. 2001 Jun; 57: 14-Sep

138970 Keay, S., Kleinberg, M., Zhang, C. O., Hise, M. K., Warren, J. W. Bladder epithelial cells from patients with interstitial cystitis produce an inhibitor of heparin-binding epidermal growth factor-like growth factor production. J Urol. 2000 Dec; 164: 2112-8

102050 Kedia, G., Uckert, S., Scheller, F., Chigogidze, T., Managadze, L., Jonas, U., Truss, M. C. In vitro functional responses of isolated normal human prostatic tissue to compounds interacting with the cyclic guanosine monophosphate pathway. Urology. 2006 Jun; 67: 1292-7

164630 Keeley, F. X., Jr., Moussa, S. A., Smith, G., Tolley, D. A. Clearance of lower-pole stones following shock wave lithotripsy: effect of the infundibulopelvic angle. Eur Urol. 1999 Nov; 36: 371-5

102720 Kehinde, E. O., Abul, F. Transurethral microwave thermotherapy for treatment of benign prostatic hyperplasia: a preliminary assessment of the Prostalund feedback treatment machine. Med Princ Pract. 2005 Jul-Aug; 14: 272-6

103740 Kehinde, E. O., Akanji, A. O., Mojiminiyi, O. A., Bashir, A. A., Daar, A. S., Varghese, R. Putative role of serum insulin-like growth factor-1 (IGF-1) and IGF binding protein-3 (IGFBP-3) levels in the development of prostate cancer in Arab men. Prostate Cancer Prostatic Dis. 2005; 8: 84-90

111350 Kehinde, E. O., Sheikh, M., Mojimoniyi, O. A., Francis, I., Anim, J. T., Nkansa-Dwamena, D., Al-Awadi, K. A. High serum prostate-specific antigen levels in the absence of prostate cancer in Middle-Eastern men: the clinician's dilemma. BJU Int. 2003 May; 91: 618-22

155870 Keijzer-Veen, M. G., Kleinveld, H. A., Lequin, M. H., Dekker, F. W., Nauta, J., de Rijke, Y. B. and van der Heijden, B. J. Renal function and size at young adult age after intrauterine growth restriction and very premature birth. Am J Kidney Dis. 2007; 50: 542-51

117690 Keledjian, K., Borkowski, A., Kim, G., Isaacs, J. T., Jacobs, S. C., Kyprianou, N. Reduction of human prostate tumor vascularity by the alpha1-adrenoceptor antagonist terazosin. Prostate. 2001 Jul 1; 48: 71-8

154510 Keles, A., Hasiloglu, A. S., Keles, A. and Aksoy, Y. Neuro-fuzzy classification of prostate cancer using NEFCLASS-J. Comput Biol Med. 2007; 37: 1617-28

105510 Kellner, D. S., Armenakas, N. A., Brodherson, M., Heyman, J., Fracchia, J. A. Efficacy of high-energy transurethral microwave thermotherapy in alleviating medically refractory urinary retention due to benign prostatic hyperplasia. Urology. 2004 Oct; 64: 703-6

154090 Keltai, M., Tonelli, M., Mann, J. F., Sitkei, E., Lewis, B. S., Hawken, S., Mehta, S. R. and Yusuf, S. Renal function and outcomes in acute coronary syndrome: impact of clopidogrel. Eur J Cardiovasc Prev Rehabil. 2007; 14: 312-8

165310 Kemperman, F. A., Silberbusch, J., Slaats, E. H., van Zanten, A. P., Weber, J. A., Krediet, R. T., Arisz, L. Glomerular filtration rate estimation from plasma creatinine after inhibition of tubular secretion: relevance of the creatinine assay. Nephrol Dial Transplant. 1999 May; 14: 1247-51

115950 Kennedy, A. R., Wan, X. S. Effects of the Bowman-Birk inhibitor on growth, invasion, and clonogenic survival of human prostate epithelial cells and prostate cancer cells. Prostate. 2002 Feb 1; 50: 125-33

121200 Kenny, A. M., Prestwood, K. M., Raisz, L. G. Short-term effects of intramuscular and transdermal testosterone on bone turnover, prostate symptoms, cholesterol, and hematocrit in men over age 70 with low testosterone levels. Endocr Res. 2000 May; 26: 153-68

122930 Keoghane, S. R., Lawrence, K. C., Gray, A. M., Doll, H. A., Hancock, A. M., Turner, K., Sullivan, M. E., Dyar, O., Cranston, D. A double-blind randomized controlled trial and economic evaluation of transurethral resection vs contact laser vaporization for benign prostatic enlargement: a 3-year follow-up. BJU Int. 2000 Jan; 85: 74-8

156830 Keqin, Z., Zhishun, X., Jing, Z., Haixin, W., Dongqing, Z. and Benkang, S. Clinical significance of intravesical prostatic protrusion in patients with benign prostatic enlargement. Urology. 2007; 70: 1096-9

136190 Keren, R., Chan, E. A meta-analysis of randomized, controlled trials comparing short- and long-course antibiotic therapy for urinary tract infections in children. Pediatrics. 2002 May; 109: E70-0

106910 Kerfoot, B. P., Baker, H., Volkan, K., Church, P. A., Federman, D. D., Masser, B. A., DeWolf, W. C. Development and initial evaluation of a novel urology curriculum for medical students. J Urol. 2004 Jul; 172: 278-81

106900 Kerfoot, B. P., Baker, H., Volkan, K., Church, P. A., Federman, D. D., Masser, B. A., DeWOLF, W. C. Development of validated instrument to measure medical student learning in clinical urology: a step toward evidence based education. J Urol. 2004 Jul; 172: 282-5

105450 Keshava, C., McCanlies, E. C., Weston, A. CYP3A4 polymorphisms--potential risk factors for breast and prostate cancer: a HuGE review. Am J Epidemiol. 2004 Nov 1; 160: 825-41

118760 Keskinege, A., Elgun, S., Yilmaz, E. Possible implications of arginase and diamine oxidase in prostatic carcinoma. Cancer Detect Prev. 2001; 25: 76-9

129470 Kessler, T. M., Burkhard, F. C., Studer, U. E. Clinical indications and outcomes with nerve-sparing cystectomy in patients with bladder cancer. Urol Clin North Am. 2005 May; 32: 165-75

126450 Kessler, T. M., Gerber, R., Burkhard, F. C., Studer, U. E., Danuser, H. Ultrasound assessment of detrusor thickness in men-can it predict bladder outlet obstruction and replace pressure flow study?. J Urol. 2006 Jun; 175: 2170-3

110290 Kester, R. R., Mooppan, U. M., Gousse, A. E., Alver, J. E., Gintautas, J., Gulmi, F. A., Abadir, A. R., Kim, H. Pharmacological characterization of isolated human prostate. J Urol. 2003 Sep; 170: 1032-8

161510 Khair, A. A., Pacelli, A., Iczkowski, K. A., Cheng, L., Corica, F. A., Larson, T. R., Corica, A., Bostwick, D. G. Does transurethral microwave thermotherapy have a different effect on prostate cancer than on benign or hyperplastic tissue?. Urology. 1999 Jul; 54: 67-72

139290 Khan, A. M., Holman, E., Toth, C. Percutaneous nephropexy. Scand J Urol Nephrol. 2000 Jun; 34: 157-61

109450 Khan, M. A., Morgan, R. J., Mikhailidis, D. P. Sexual dysfunction in men with lower urinary tract symptoms and benign prostatic hyperplasia: an emerging link. BJU Int. 2003 Nov; 92: 822-3

110330 Khan, M. A., Partin, A. W., Rittenhouse, H. G., Mikolajczyk, S. D., Sokoll, L. J., Chan, D. W., Veltri, R. W. Evaluation of proprostate specific antigen for early detection of prostate cancer in men with a total prostate specific antigen range of 4.0 to 10.0 ng/ml. J Urol. 2003 Sep; 170: 723-6

103530 Khan, M., Khan, A. L., Khan, S., Nawaz, H. Benign prostatic hyperplasia: mode of presentation and postoperative outcome. J Pak Med Assoc. 2005 Jan; 55: 20-3

112990 Khastgir, J., Arya, M., Shergill, I. S., Kalsi, J. S., Minhas, S., Mundy, A. R. Current concepts in the pharmacotherapy of benign prostatic hyperplasia. Expert Opin Pharmacother. 2002 Dec; 3: 1727-37

155220 Khastgir, J., Khan, A. and Speakman, M. Acute urinary retention: medical management and the identification of risk factors for prevention. Nat Clin Pract Urol. 2007; 4: 422-31

114020 Khatuya, H., Hutchings, R. H., Kuo, G. H., Pulito, V. L., Jolliffe, L. K., Li, X., Murray, W. V. Arylpiperazine substituted heterocycles as selective alpha(1a) adrenergic antagonists. Bioorg Med Chem Lett. 2002 Sep 2; 12: 2443-6

114240 Khatuya, H., Pulito, V. L., Jolliffe, L. K., Li, X., Murray, W. V. Novel thiophene derivatives for the treatment of benign prostatic hyperplasia. Bioorg Med Chem Lett. 2002 Aug 19; 12: 2145-8

102080 Khorramizadeh, M. R., Aalizadeh, N., Pezeshki, M., Ghahary, A., Zeraati, H., Berahmeh, A., Safa, O., Saadat, F. Determination of gelatinase A using a modified indirect hemagglutination assay in human prostate cancer screening and assessment of its correlation with prostate-specific antigen parameters. Int J Urol. 2005 Jul; 12: 637-43

119480 Khosravi, J., Diamandi, A., Mistry, J., Scorilas, A. Insulin-like growth factor I (IGF-I) and IGF-binding protein-3 in benign prostatic hyperplasia and prostate cancer. J Clin Endocrinol Metab. 2001 Feb; 86: 694-9

117990 Khoubehi, B., Kessling, A. M., Adshead, J. M., Smith, G. L., Smith, R. D., Ogden, C. W. Expression of the developmental and oncogenic PAX2 gene in human prostate cancer. J Urol. 2001 Jun; 165: 2115-20

101250 Kiemeney, L. A., Mochtar, C. A., Straatman, H. Accurate prediction of need for invasive treatment in alpha1-blocker treated patients with benign prostatic hyperplasia not possible: bootstrap validation analysis. Urology. 2006 May; 67: 984-9

127980 Kikuchi, E., Horiguchi, Y., Nakashima, J., Hatakeyama, N., Matsumoto, M., Nishiyama, T., Murai, M. Lymphovascular invasion independently predicts increased disease specific survival in patients with transitional cell carcinoma of the upper urinary tract. J Urol. 2005 Dec; 174: 2120-3; discussion 2124

165180 Kilpatrick, E. S., Keevilt, B. G., Richmond, K. L., Newland, P., Addison, G. M. Plasma 1,5-anhydroglucitol concentrations are influenced by variations in the renal threshold for glucose. Diabet Med. 1999 Jun; 16: 496-9

152080 Kim, C. I., Chang, H. S., Kim, B. K. and Park, C. H. Long-term results of medical treatment in benign prostatic hyperplasia. Urology. 2006; 68: 1015-9

110550 Kim, C. J., Shimakage, M., Kushima, R., Mukaisho, K., Shinka, T., Okada, Y., Inoue, H. Down-regulation of drs mRNA in human prostate carcinomas. Hum Pathol. 2003 Jul; 34: 654-7

114070 Kim, E. D. Ethanol injection for the treatment of benign prostatic hyperplasia. Curr Urol Rep. 2002 Aug; 3: 276-9

106550 Kim, E. D. The use of baseline clinical measures to predict those at risk for progression of benign prostatic hyperplasia. Curr Urol Rep. 2004 Aug; 5: 267-73

115850 Kim, H. L., Benson, D. A., Stern, S. D., Gerber, G. S. Practice trends in the management of prostate disease by family practice physicians and general internists: an internet-based survey. Urology. 2002 Feb; 59: 266-71

108300 Kim, H. S., Bowen, P., Chen, L., Duncan, C., Ghosh, L., Sharifi, R., Christov, K. Effects of tomato sauce consumption on apoptotic cell death in prostate benign hyperplasia and carcinoma. Nutr Cancer. 2003; 47: 40-7

126050 Kim, J. Y., Lee, S. J., Koo, B. N., Noh, S. H., Kil, H. K., Kim, H. S., Ban, S. Y. The effect of epidural sufentanil in ropivacaine on urinary retention in patients undergoing gastrectomy. Br J Anaesth. 2006 Sep; 97: 414-8

151920 Kim, K. H., Dobi, A., Shaheduzzaman, S., Gao, C. L., Masuda, K., Li, H., Drukier, A., Gu, Y., Srikantan, V., Rhim, J. S. and Srivastava, S. Characterization of the androgen receptor in a benign prostate tissue-derived human prostate epithelial cell line: RC-165N/human telomerase reverse transcriptase. Prostate Cancer Prostatic Dis. 2007; 10: 30-8

129770 Kim, S. C., Kuo, R. L., Tinmouth, W. W., Watkins, S., Lingeman, J. E. Percutaneous nephrolithotomy for caliceal diverticular calculi: a novel single stage approach. J Urol. 2005 Apr; 173: 1194-8

163750 Kim, W. J., Yun, S. J., Lee, T. S., Kim, C. W., Lee, H. M., Choi, H. Collagen-to-smooth muscle ratio helps prediction of prognosis after pyeloplasty. J Urol. 2000 Apr; 163: 1271-5

164070 Kinder, M. V., Bastiaanssen, E. H., Janknegt, R. A., Marani, E. The neuronal control of the lower urinary tract: A model of architecture and control mechanisms. Arch Physiol Biochem. 1999 Jul; 107: 203-22

115450 King, T. M., Tong, L., Pack, R. J., Spencer, C., Amos, C. I. Accuracy of family history of cancer as reported by men with prostate cancer. Urology. 2002 Apr; 59: 546-50

133850 Kinn, A. C., Harlid, R. Snoring as a cause of nocturia in men with lower urinary tract symptoms. Eur Urol. 2003 Jun; 43: 696-701

156810 Kiptoon, D. K., Magoha, G. A. and Owillah, F. A. Early postoperative outcomes of patients undergoing prostatectomy for benign prostatic hyperplasia at Kenyatta National Hospital, Nairobi. East Afr Med J. 2007; 84: S40-4

127180 Kirby, R. Locally advanced prostate cancer treated with radiotherapy and androgen deprivation. Nat Clin Pract Urol. 2005 Jun; 2: 304-8

106850 Kirby, R. Meta-analysis: creating a level playing field for the patient with symptomatic benign prostatic hyperplasia?. BJU Int. 2004 Jul; 94: 3-Feb

111980 Kirby, R. S. A randomized, double-blind crossover study of tamsulosin and controlled-release doxazosin in patients with benign prostatic hyperplasia. BJU Int. 2003 Jan; 91: 41-4

161670 Kirby, R. S. Clinical pharmacology of alpha1-adrenoceptor antagonists. Eur Urol. 1999; 36 Suppl 1: 48-53; discussion 65

120320 Kirby, R. S. The natural history of benign prostatic hyperplasia: what have we learned in the last decade?. Urology. 2000 Nov 1; 56: 3-6

119390 Kirby, R. S., Andersen, M., Gratzke, P., Dahlstrand, C., Hoye, K. A combined analysis of double-blind trials of the efficacy and tolerability of doxazosin-gastrointestinal therapeutic system, doxazosin standard and placebo in patients with benign prostatic hyperplasia. BJU Int. 2001 Feb; 87: 192-200

104590 Kirby, R. S., O'Leary, M. P., Carson, C. Efficacy of extended-release doxazosin and doxazosin standard in patients with concomitant benign prostatic hyperplasia and sexual dysfunction. BJU Int. 2005 Jan; 95: 103-9; discussion 109

108160 Kirby, R. S., Quinn, S., Mallen, S., Jensen, D. Doxazosin controlled release vs tamsulosin in the management of benign prostatic hyperplasia: an efficacy analysis. Int J Clin Pract. 2004 Jan; 58: 6-10

112360 Kirby, R. S., Roehrborn, C., Boyle, P., Bartsch, G., Jardin, A., Cary, M. M., Sweeney, M., Grossman, E. B. Efficacy and tolerability of doxazosin and finasteride, alone or in combination, in treatment of symptomatic benign prostatic hyperplasia: the Prospective European Doxazosin and Combination Therapy (PREDICT) trial. Urology. 2003 Jan; 61: 119-26

140400 Kirby, R., Andersson, K. E., Lepor, H., Steers, W. D. alpha(1)-Adrenoceptor selectivity and the treatment of benign prostatic hyperplasia and lower urinary tract symptoms. Prostate Cancer Prostatic Dis. 2000 Aug; 3: 76-83

133310 Kirchhof, K., Apostolidis, A. N., Mathias, C. J., Fowler, C. J. Erectile and urinary dysfunction may be the presenting features in patients with multiple system atrophy: a retrospective study. Int J Impot Res. 2003 Aug; 15: 293-8

117220 Kirkman, W., 3rd, Chen, P., Schroeder, R., Feneley, M. R., Rodriguez, R., Wickham, T. J., King, C. R., Bruder, J. T. Transduction and apoptosis induction in the rat prostate, using adenovirus vectors. Hum Gene Ther. 2001 Aug 10; 12: 1499-512

165210 Kirkpatrick, C. M., Duffull, S. B., Begg, E. J. Pharmacokinetics of gentamicin in 957 patients with varying renal function dosed once daily. Br J Clin Pharmacol. 1999 Jun; 47: 637-43

161750 Kirollos, M. M. Re: Prostatic infarction/infection in acute urinary retention secondary to benign prostatic hyperplasia. J Urol. 1999 Jul; 162: 171

120710 Kirschenbaum, A., Klausner, A. P., Lee, R., Unger, P., Yao, S., Liu, X. H., Levine, A. C. Expression of cyclooxygenase-1 and cyclooxygenase-2 in the human prostate. Urology. 2000 Oct 1; 56: 671-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

153400 Kist-van Holthe, J. E., van Zwieten, P. H., Schell-Feith, E. A., Zonderland, H. M., Holscher, H. C., Wolterbeek, R., Veen, S., Frolich, M. and van der Heijden, B. J. Is nephrocalcinosis in preterm neonates harmful for long-term blood pressure and renal function?. Pediatrics. 2007; 119: 468-75

136070 Kitamura, H., Masumori, N., Tanuma, Y., Yanase, M., Itoh, N., Takahashi, A., Tsukamoto, T., Adachi, H., Hotta, H. Does transurethral resection of the prostate facilitate detection of clinically significant prostate cancer that is missed with systematic sextant and transition zone biopsies?. Int J Urol. 2002 Feb; 9: 95-9

160020 Kiviniemi, K., Suominen, T. 'Going to the bathroom four or five times a night ...': seven men talk about their experiences of benign prostatic hyperplasia and the perioperative period. J Clin Nurs. 1999 Sep; 8: 542-9

163530 Kjolhede, P., Ryden, G., Hewardt, P. Abdominal urethrocystopexy using fibrin sealant. A prospective study of long-term efficacy. Int Urogynecol J Pelvic Floor Dysfunct. 2000; 11: 93-6

113170 Klausner, A. P., Galea, J., Vapnek, J. M. Effect of catheter size on urodynamic assessment of bladder outlet obstruction. Urology. 2002 Nov; 60: 875-80

126040 Kleiter, I., Steinbrecher, A., Flugel, D., Bogdahn, U., Schulte-Mattler, W. Autonomic involvement in tick-borne encephalitis (TBE): report of five cases. Eur J Med Res. 2006 Jun 30; 11: 261-5

125560 Kleppe, S., Schmitt, J., Geipel, A., Gembruch, U., Hansmann, M., Bartmann, P., Franke, I., Heep, A. Impact of prenatal urinomas in patients with posterior urethral valves and postnatal renal function. J Perinat Med. 2006; 34: 425-8

151840 Klimek, I., Kaluzynski, A., Kulig, A., Szymczak, W. and Ambroziak, R. Glomerular basement membrane thinning in children: a morphometric assessment. Anal Quant Cytol Histol. 2006; 28: 269-80

112820 Klingler, H. C. New innovative therapies for benign prostatic hyperplasia: any advance?. Curr Opin Urol. 2003 Jan; 13: 5-Nov

161020 Klingler, H. C., Bretland, A. J., Reid, S. V., Chapple, C. R., Eaton, C. L. Regulation of prostatic stromal cell growth and function by transforming growth factor beta (TGFbeta). Prostate. 1999 Oct 1; 41: 110-20

134650 Klingler, H. C., Kramer, G., Lodde, M., Dorfinger, K., Hofbauer, J., Marberger, M. Stone treatment and coagulopathy. Eur Urol. 2003 Jan; 43: 75-9

105190 Kloner, R. A., Jackson, G., Emmick, J. T., Mitchell, M. I., Bedding, A., Warner, M. R., Pereira, A. Interaction between the phosphodiesterase 5 inhibitor, tadalafil and 2 alpha-blockers, doxazosin and tamsulosin in healthy normotensive men. J Urol. 2004 Nov; 172: 1935-40

102400 Klonisch, T., Muller-Huesmann, H., Riedel, M., Kehlen, A., Bialek, J., Radestock, Y., Holzhausen, H. J., Steger, K., Ludwig, M., Weidner, W., Hoang-Vu, C., Hombach-Klonisch, S. INSL3 in the benign hyperplastic and neoplastic human prostate gland. Int J Oncol. 2005 Aug; 27: 307-15

107290 Klotsman, M., Weinberg, C. R., Davis, K., Binnie, C. G., Hartmann, K. E. A case-based evaluation of SRD5A1, SRD5A2, AR, and ADRA1A as candidate genes for severity of BPH. Pharmacogenomics J. 2004; 4: 251-9

135480 Klotz, R., Joseph, P. A., Ravaud, J. F., Wiart, L., Barat, M. The Tetrafigap Survey on the long-term outcome of tetraplegic spinal cord injured persons: Part III. Medical complications and associated factors. Spinal Cord. 2002 Sep; 40: 457-67

160990 Klotz, T., Braun, M., Bin Saleh, A., Orlovski, M., Engelmann, U. Penetration of a single infusion of ampicillin and sulbactam into prostatic tissue during transurethral prostatectomy. Int Urol Nephrol. 1999; 31: 203-9

160150 Klotz, T., Mathers, M. J., Bloch, W., Nayal, W., Engelmann, U. Nitric oxide based influence of nitrates on micturition in patients with benign prostatic hyperplasia. Int Urol Nephrol. 1999; 31: 335-41

164560 Knight, E. L., Glynn, R. J., McIntyre, K. M., Mogun, H., Avorn, J. Predictors of decreased renal function in patients with heart failure during angiotensin-converting enzyme inhibitor therapy: results from the studies of left ventricular dysfunction (SOLVD). Am Heart J. 1999 Nov; 138: 849-55

161240 Knopf, H. J., Weib, P., Schafer, W., Funke, P. J. Nosocomial infections after transurethral prostatectomy. Eur Urol. 1999 Sep; 36: 207-12

157110 Knox Cartwright, N. E. Benign prostatic hyperplasia: alpha1 adrenoreceptor antagonists and cataract surgery. Bmj. 2008; 336: 291

107490 Knutson, T. Can prostate stents be used to predict the outcome of transurethral resection of the prostate in the difficult cases?. Curr Opin Urol. 2004 Jan; 14: 35-9

117880 Knutson, T., Edlund, C., Fall, M., Dahlstrand, C. BPH with coexisting overactive bladder dysfunction--an everyday urological dilemma. Neurourol Urodyn. 2001; 20: 237-47

136580 Knutson, T., Pettersson, S., Dahlstrand, C. Pressure-flow studies for patient selection in the treatment of symptomatic BPH--a one-year follow-up study. Scand J Urol Nephrol. 2001 Dec; 35: 470-5

136590 Knutson, T., Schafer, W., Fall, M., Pettersson, S., Dahlstrand, C. Can urodynamic assessment of outflow obstruction predict outcome from watchful waiting?--A four-year follow-up study. Scand J Urol Nephrol. 2001 Dec; 35: 463-9

103590 Kobayashi, M., Kurokawa, S., Tokue, A. Intraindividual variation in total and percent free prostate-specific antigen levels in prostate cancer suspects. Urol Int. 2005; 74: 198-202

126570 Kobayashi, M., Tokue, A., Morita, T. Discontinuation of tamsulosin treatment in men with lower urinary tract symptoms: a pilot study. Urol Int. 2006; 76: 304-8

134230 Kobelt, G., Canning, D. A., Hensle, T. W., Lackgren, G. The cost-effectiveness of endoscopic injection of dextranomer/hyaluronic acid copolymer for vesicoureteral reflux. J Urol. 2003 Apr; 169: 1480-4; discdussion 1484-5

108100 Kobelt, G., Spangberg, A., Mattiasson, A. The cost of feedback microwave thermotherapy compared with transurethral resection of the prostate for treating benign prostatic hyperplasia. BJU Int. 2004 Mar; 93: 543-8

117180 Koch, E. Extracts from fruits of saw palmetto (Sabal serrulata) and roots of stinging nettle (Urtica dioica): viable alternatives in the medical treatment of benign prostatic hyperplasia and associated lower urinary tracts symptoms. Planta Med. 2001 Aug; 67: 489-500

116280 Kochakarn, W., Nilsakulwat, S., Roongruangsilp, U., Muangman, V. Interstitial laser coagulation for the treatment of benign prostatic hyperplasia: a 3 year-follow-up of 30 cases. J Med Assoc Thai. 2001 Aug; 84: 1126-30

152030 Koerner, I., Deibl, M., Oswald, J., Schwentner, C., Lunacek, A., Fritsch, H., Bartsch, G. and Radmayr, C. Gender specific chronological and morphometric assessment of fetal bladder wall development. J Urol. 2006; 176: 2674-8

137290 Koh, J. S., Cheng, C. W., Foo, K. T. Spectrum of prostate cancer in the Singapore General Hospital (1980 to 1985). Ann Acad Med Singapore. 2001 Sep; 30: 513-5

138330 Kohler, J., Thysell, H., Tencer, J., Forsberg, L., Hellstrom, M. Conservative treatment and anti-reflux surgery in adults with vesico-ureteral reflux: effect on urinary-tract infections, renal function and loin pain in a long-term follow-up study. Nephrol Dial Transplant. 2001 Jan; 16: 52-60

160430 Koivisto, P. A., Schleutker, J., Helin, H., Ehren-van Eekelen, C., Kallioniemi, O. P., Trapman, J. Androgen receptor gene alterations and chromosomal gains and losses in prostate carcinomas appearing during finasteride treatment for benign prostatic hyperplasia. Clin Cancer Res. 1999 Nov; 5: 3578-82

122040 Kojima, M., Ochiai, A., Naya, Y., Okihara, K., Ukimura, O., Miki, T. Doppler resistive index in benign prostatic hyperplasia: correlation with ultrasonic appearance of the prostate and infravesical obstruction. Eur Urol. 2000 Apr; 37: 436-42

156990 Kojima, Y., Sasaki, S., Kubota, Y., Hayase, M., Hayashi, Y., Shinoura, H., Tsujimoto, G. and Kohri, K. Expression of alpha1-adrenoceptor subtype mRNA as a predictor of the efficacy of subtype selective alpha1-adrenoceptor antagonists in the management of benign prostatic hyperplasia. J Urol. 2008; 179: 1040-6

155000 Kojima, Y., Sasaki, S., Shinoura, H., Hayase, M., Kubota, Y., Hayashi, Y., Tsujimoto, G. and Kohri, K. Change of expression levels of alpha1-adrenoceptor subtypes by administration of alpha1d-adrenoceptor-subtype-selective antagonist naftopidil in benign prostate hyperplasia patients. Prostate. 2007; 67: 1285-92

101870 Kojima, Y., Sasaki, S., Shinoura, H., Hayashi, Y., Tsujimoto, G., Kohri, K. Quantification of alpha1-adrenoceptor subtypes by real-time RT-PCR and correlation with age and prostate volume in benign prostatic hyperplasia patients. Prostate. 2006 May 15; 66: 761-7

126010 Kok, E. T., Bohnen, A. M., Bosch, J. L., Thomas, S., Groeneveld, F. P. Patient's quality of life and coping style influence general practitioner's management in men with lower urinary tract symptoms: the Krimpen Study. Qual Life Res. 2006 Oct; 15: 1335-43

101820 Kok, E. T., Bohnen, A. M., Groeneveld, F. P., Busschbach, J. J., Blanker, M. H., Bosch, J. L. Changes in disease specific and generic quality of life related to changes in lower urinary tract symptoms: the Krimpen study. J Urol. 2005 Sep; 174: 1055-8

123150 Kok, E. T., Bohnen, A. M., Jonkheijm, R., Gouweloos, J., Groeneveld, F. P., Thomas, S., Bosch, J. L. Simple case definition of clinical benign prostatic hyperplasia, based on International Prostate Symptom Score, predicts general practitioner consultation rates. Urology. 2006 Oct; 68: 784-9

113190 Kok, E. T., McDonnell, J., Stolk, E. A., Stoevelaar, H. J., Busschbach, J. J. The valuation of the International Prostate Symptom Score (IPSS) for use in economic evaluations. Eur Urol. 2002 Nov; 42: 491-7

106450 Koksal, I. T., Dirice, E., Yasar, D., Sanlioglu, A. D., Ciftcioglu, A., Gulkesen, K. H., Ozes, N. O., Baykara, M., Luleci, G., Sanlioglu, S. The assessment of PTEN tumor suppressor gene in combination with Gleason scoring and serum PSA to evaluate progression of prostate carcinoma. Urol Oncol. 2004 Jul-Aug; 22: 307-12

117910 Koliakos, G., Chatzivasiliou, D., Dimopoulos, T., Trachana, V., Paschalidou, K., Galiamoutsas, V., Triantos, A., Chitas, G., Dimopoulos, A., Vlatsas, G. The significance of PSA/IGF-1 ratio in differentiating benign prostate hyperplasia from prostate cancer. Dis Markers. 2000; 16: 143-6

121770 Kondo, Y., Koga, S., Komata, T., Kondo, S. Treatment of prostate cancer in vitro and in vivo with 2-5A-anti-telomerase RNA component. Oncogene. 2000 Apr 27; 19: 2205-11

153790 Konety, B. R., Sadetsky, N. and Carroll, P. R. Recovery of urinary continence following radical prostatectomy: the impact of prostate volume--analysis of data from the CaPSURE Database. J Urol. 2007; 177: 1423-5; discussion 1425-6

138870 Kong, K. H., Young, S. Incidence and outcome of poststroke urinary retention: a prospective study. Arch Phys Med Rehabil. 2000 Nov; 81: 1464-7

108630 Konig, J. E., Senge, T., Allhoff, E. P., Konig, W. Analysis of the inflammatory network in benign prostate hyperplasia and prostate cancer. Prostate. 2004 Feb 1; 58: 121-9

102240 Konishi, N., Nakamura, M., Ishida, E., Shimada, K., Mitsui, E., Yoshikawa, R., Yamamoto, H., Tsujikawa, K. High expression of a new marker PCA-1 in human prostate carcinoma. Clin Cancer Res. 2005 Jul 15; 11: 5090-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

107040 Konno-Takahashi, N., Takeuchi, T., Nishimatsu, H., Kamijo, T., Tomita, K., Schalken, J. A., Teshima, S., Kitamura, T. Engineered FGF-2 expression induces glandular epithelial hyperplasia in the murine prostatic dorsal lobe. Eur Urol. 2004 Jul; 46: 126-32

108580 Koren, R., Ben Meir, D., Langzam, L., Dekel, Y., Konichezky, M., Baniel, J., Livne, P. M., Gal, R., Sampson, S. R. Expression of protein kinase C isoenzymes in benign hyperplasia and carcinoma of prostate. Oncol Rep. 2004 Feb; 11: 321-6

152740 Korkes, F., Silveira, T. S., Castro, M. G., Cuck, G., Fernandes, R. C. and Perez, M. D. Carcinoma of the renal pelvis and ureter. Int Braz J Urol. 2006; 32: 648-53; discussion 653-5

139740 Kortmann, B. B., Sonke, G. S., Wijkstra, H., Nordling, J., Kallestrup, E., Holm, N. R., de La Rosette, J. J. Intra- and inter-investigator variation in the analysis of pressure-flow studies in men with lower urinary tract symptoms. Neurourol Urodyn. 2000; 19: 221-32

129730 Kosem, M., Sengul, E. Clear cell adenocarcinoma of the urinary bladder. Scand J Urol Nephrol. 2005; 39: 89-92

101950 Koseoglu, H., Aslan, G., Ozdemir, I., Esen, A. Nocturnal polyuria in patients with lower urinary tract symptoms and response to alpha-blocker therapy. Urology. 2006 Jun; 67: 1188-92

155200 Koseoglu, R. D., Erdemir, F., Parlaktas, B. S., Filiz, N. O., Uluocak, N. and Etikan, I. Effect of chronic prostatitis on angiogenic activity and serum prostate specific antigen level in benign prostatic hyperplasia. Kaohsiung J Med Sci. 2007; 23: 387-94

139930 Koskimaki, J., Hakama, M., Huhtala, H., Tammela, T. L. Association of dietary elements and lower urinary tract symptoms. Scand J Urol Nephrol. 2000 Feb; 34: 46-50

136920 Koskimaki, J., Hakama, M., Huhtala, H., Tammela, T. L. Association of non-urological diseases with lower urinary tract symptoms. Scand J Urol Nephrol. 2001 Oct; 35: 377-81

136800 Koskimaki, J., Hakama, M., Huhtala, H., Tammela, T. L. Is reduced quality of life in men with lower urinary tract symptoms due to concomitant diseases?. Eur Urol. 2001 Dec; 40: 661-5

164010 Koster, A., Pasic, M., Bauer, M., Kuppe, H., Hetzer, R. Hirudin as anticoagulant for cardiopulmonary bypass: importance of preoperative renal function. Ann Thorac Surg. 2000 Jan; 69: 37-41

163790 Kotanko, P., Margreiter, R., Pfaller, W. Urinary N-acetyl-beta-D-glucosaminidase and neopterin aid in the diagnosis of rejection and acute tubular necrosis in initially nonfunctioning kidney grafts. Nephron. 2000 Mar; 84: 228-35

131240 Kovindha, A., Mai, W. N., Madersbacher, H. Reused silicone catheter for clean intermittent catheterization (CIC): is it safe for spinal cord-injured (SCI) men?. Spinal Cord. 2004 Nov; 42: 638-42

106510 Koziolek, M. J., Wolfram, M., Muller, G. A., Scheel, A. K., Strutz, F., Scheuermann, E. H., Kramer, W. Benign prostatic hyperplasia (BPH) requiring transurethral resection in freshly transplanted renal allograft recipients. Clin Nephrol. 2004 Jul; 62: 13-Aug

154030 Krajewska, M., Olson, A. H., Mercola, D., Reed, J. C. and Krajewski, S. Claudin-1 immunohistochemistry for distinguishing malignant from benign epithelial lesions of prostate. Prostate. 2007; 67: 907-10

152580 Kramer, G., Mitteregger, D. and Marberger, M. Is benign prostatic hyperplasia (BPH) an immune inflammatory disease?. Eur Urol. 2007; 51: 1202-16

108640 Kramer, G., Steiner, G. E., Grobl, M., Hrachowitz, K., Reithmayr, F., Paucz, L., Newman, M., Madersbacher, S., Gruber, D., Susani, M., Marberger, M. Response to sublethal heat treatment of prostatic tumor cells and of prostatic tumor infiltrating T-cells. Prostate. 2004 Feb 1; 58: 109-20

115040 Kramer, G., Steiner, G. E., Handisurya, A., Stix, U., Haitel, A., Knerer, B., Gessl, A., Lee, C., Marberger, M. Increased expression of lymphocyte-derived cytokines in benign hyperplastic prostate tissue, identification of the producing cell types, and effect of differentially expressed cytokines on stromal cell proliferation. Prostate. 2002 Jun 1; 52: 43-58

112020 Kramer, G., Steiner, G. E., Sokol, P., Mallone, R., Amann, G., Marberger, M. Loss of CD38 correlates with simultaneous up-regulation of human leukocyte antigen-DR in benign prostatic glands, but not in fetal or androgen-ablated glands, and is strongly related to gland atrophy. BJU Int. 2003 Mar; 91: 409-16

133950 Kranse, R., van Mastrigt, R. Causes for variability in repeated pressure-flow measurements. Urology. 2003 May; 61: 930-4; discussion 934-5

161170 Krautschick, A. W., Kohrmann, K. U., Henkel, T. O., Michel, M. S., Alken, P. Interstitial laser coagulation in benign prostatic hyperplasia: A critical evaluation after 2 years of follow-Up. Urol Int. 1999; 62: 76-80

106990 Krieger, J. N. Classification, epidemiology and implications of chronic prostatitis in North America, Europe and Asia. Minerva Urol Nefrol. 2004 Jun; 56: 99-107

140150 Krieger, J. N., Jacobs, R., Ross, S. O. Detecting urethral and prostatic inflammation in patients with chronic prostatitis. Urology. 2000 Feb; 55: 186-91; discussion 191-2

111280 Krieger, J. N., Riley, D. E., Cheah, P. Y., Liong, M. L., Yuen, K. H. Epidemiology of prostatitis: new evidence for a world-wide problem. World J Urol. 2003 Jun; 21: 70-4

128170 Krieger, J. N., Ross, S. O., Limaye, A. P., Riley, D. E. Inconsistent localization of gram-positive bacteria to prostate-specific specimens from patients with chronic prostatitis. Urology. 2005 Oct; 66: 721-5

164310 Kriegmair, M., Zaak, D., Knuechel, R., Baumgartner, R., Hofstetter, A. 5-Aminolevulinic acid-induced fluorescence endoscopy for the detection of lower urinary tract tumors. Urol Int. 1999; 63: 27-31

110960 Kring, D. Benign prostatic hyperplasia. Nursing. 2003 May; 33: 44-5

112580 Krishnan, A. V., Peehl, D. M., Feldman, D. Inhibition of prostate cancer growth by vitamin D: Regulation of target gene expression. J Cell Biochem. 2003 Feb 1; 88: 363-71

125610 Krishnan, A., Swana, H., Mathias, R., Baskin, L. S. Redo ureteroneocystostomy using an extravesical approach in pediatric renal transplant patients with reflux: a retrospective analysis and description of technique. J Urol. 2006 Oct; 176: 1582-7; discussion 1587

153750 Kristal, A. R., Arnold, K. B., Schenk, J. M., Neuhouser, M. L., Weiss, N., Goodman, P., Antvelink, C. M., Penson, D. F. and Thompson, I. M. Race/ethnicity, obesity, health related behaviors and the risk of symptomatic benign prostatic hyperplasia: results from the prostate cancer prevention trial. J Urol. 2007; 177: 1395-400; quiz 1591

152900 Kristinsson, G., Wall, S. P. and Crain, E. F. The digital rectal examination in pediatric trauma: a pilot study. J Emerg Med. 2007; 32: 59-62

128350 Kristjansson, S., Wennergren, D., Eriksson, B., Thorarinsdottir, H., Wennergren, G. U-EPX levels and wheezing in infants and young children with and without RSV bronchiolitis. Respir Med. 2006 May; 100: 878-83

165710 Kronemer, K. A., Don, S., Luker, G. D., Hildebolt, C. Soft-copy versus hard-copy interpretation of voiding cystourethrography in neonates, infants, and children. AJR Am J Roentgenol. 1999 Mar; 172: 791-3

164240 Kruger, S., Brandt, E., Klinger, M., Kreft, B. Interleukin-8 secretion of cortical tubular epithelial cells is directed to the basolateral environment and is not enhanced by apical exposure to Escherichia coli. Infect Immun. 2000 Jan; 68: 328-34

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

130630 Ku, J. H., Hong, S. K., Kim, H. H., Paick, J. S., Lee, S. E., Oh, S. J. Is questionnaire enough to assess number of nocturic episodes? Prospective comparative study between data from questionnaire and frequency-volume charts. Urology. 2004 Nov; 64: 966-9

131460 Ku, J. H., Jeong, I. G., Lim, D. J., Byun, S. S., Paick, J. S., Oh, S. J. Voiding diary for the evaluation of urinary incontinence and lower urinary tract symptoms: prospective assessment of patient compliance and burden. Neurourol Urodyn. 2004; 23: 331-5

131720 Ku, J. H., Lim, D. J., Byun, S. S., Paick, J. S., Oh, S. J. Nocturia in patients with lower urinary tract symptoms: association with diurnal voiding patterns. BJU Int. 2004 May; 93: 1005-8

128860 Ku, J. H., Oh, S. J. Comparison of voiding parameters in men and women with lower urinary tract symptoms. Neurourol Urodyn. 2006; 25: 13-8

127950 Ku, J. H., Paick, J. S., Kim, S. W. Chronic prostatitis in Korea: a nationwide postal survey of practicing urologists in 2004. Asian J Androl. 2005 Dec; 7: 427-32

101640 Ku, J. H., Um, J. M., Shin, J. W., Yang, J. H., Paick, J. S. Significance of nocturnal hesitancy in treatment of men with lower urinary tract symptoms. Urology. 2006 May; 67: 978-83

156930 Kucur, M., Isman, F. K., Balci, C., Onal, B., Hacibekiroglu, M., Ozkan, F. and Ozkan, A. Serum YKL-40 levels and chitotriosidase activity as potential biomarkers in primary prostate cancer and benign prostatic hyperplasia. Urol Oncol. 2008; 26: 47-52

103290 Kuefer, R., Hofer, M. D., Zorn, C. S., Engel, O., Volkmer, B. G., Juarez-Brito, M. A., Eggel, M., Gschwend, J. E., Rubin, M. A., Day, M. L. Assessment of a fragment of e-cadherin as a serum biomarker with predictive value for prostate cancer. Br J Cancer. 2005 Jun 6; 92: 2018-23

134030 Kuijper, E. J., van der Meer, J., de Jong, M. D., Speelman, P., Dankert, J. Usefulness of Gram stain for diagnosis of lower respiratory tract infection or urinary tract infection and as an aid in guiding treatment. Eur J Clin Microbiol Infect Dis. 2003 Apr; 22: 228-34

152460 Kulig, K. and Malawska, B. Trends in the development of new drugs for treatment of benign prostatic hyperplasia. Curr Med Chem. 2006; 13: 3395-416

108310 Kumar, H. Re: histological changes of minimally invasive procedures for the treatment of benign prostatic hyperplasia and prostate cancer: clinical implications. J Urol. 2004 Mar; 171: 1244

109740 Kumar, R., Kumar, M., Jagannathan, N. R., Gupta, N. P., Hemal, A. K. Proton magnetic resonance spectroscopy with a body coil in the diagnosis of carcinoma prostate. Urol Res. 2004 Feb; 32: 36-40

104530 Kumar, S. M. Photoselective vaporization of the prostate: a volume reduction analysis in patients with lower urinary tract symptoms secondary to benign prostatic hyperplasia and carcinoma of the prostate. J Urol. 2005 Feb; 173: 511-3

120510 Kumar, V. L., Dewan, S. Alpha adrenergic blockers in the treatment of benign hyperplasia of the prostate. Int Urol Nephrol. 2000; 32: 67-71

120500 Kumar, V. L., Majumder, P. K., Kumar, V. Observations on EGFR gene amplification and polymorphism in prostatic diseases. Int Urol Nephrol. 2000; 32: 73-5

120350 Kumar, V., Marr, C., Bhuvangiri, A., Irwin, P. A prospective study of conservatively managed acute urinary retention: prostate size matters. BJU Int. 2000 Nov; 86: 816-9

132190 Kumar, V., Toussi, H., Marr, C., Hough, C., Javle, P. The benefits of radical prostatectomy beyond cancer control in symptomatic men with prostate cancer. BJU Int. 2004 Mar; 93: 507-9

107750 Kumazawa, T., Tsuchiya, N., Wang, L., Sato, K., Kamoto, T., Ogawa, O., Nakamura, A., Kato, T., Habuchi, T. Microsatellite polymorphism of steroid hormone synthesis gene CYP11A1 is associated with advanced prostate cancer. Int J Cancer. 2004 May 20; 110: 140-4

114420 Kunishima, Y., Matsukawa, M., Takahashi, S., Itoh, N., Hirose, T., Furuya, S., Takatsuka, K., Mori, M., Tsukamoto, T. National institutes of Health Chronic Prostatitis Symptom Index for Japanese men. Urology. 2002 Jul; 60: 74-7

100120 Kunju, L. P., Chinnaiyan, A. M., Shah, R. B. Comparison of monoclonal antibody (P504S) and polyclonal antibody to alpha methylacyl-CoA racemase (AMACR) in the work-up of prostate cancer. Histopathology. 2005 Dec; 47: 587-96

109520 Kunju, L. P., Rubin, M. A., Chinnaiyan, A. M., Shah, R. B. Diagnostic usefulness of monoclonal antibody P504S in the workup of atypical prostatic glandular proliferations. Am J Clin Pathol. 2003 Nov; 120: 737-45

154500 Kuntz, R. M. Laser treatment of benign prostatic hyperplasia. World J Urol. 2007; 25: 241-7

106280 Kuntz, R. M., Ahyai, S., Lehrich, K., Fayad, A. Transurethral holmium laser enucleation of the prostate versus transurethral electrocautery resection of the prostate: a randomized prospective trial in 200 patients. J Urol. 2004 Sep; 172: 1012-6

140500 Kuntz, R. M., Fayad, A., Lehrich, K., Pramono, S. Transurethral holmium laser enucleation of the prostate (HoLEP) - a prospective study on 100 patients with one year follow-up. Med Laser Appl. 2001 Mar; 16: 15-22

140510 Kuntz, R. M., Lehrich, K. Transurethral holmium laser enucleation versus transvesical open enucleation for prostate adenoma greater than 100 gm.: a randomized prospective trial of 120 patients. J Urol. 2002 Oct; 168: 1465-9

155740 Kuntz, R. M., Lehrich, K. and Ahyai, S. A. Holmium laser enucleation of the prostate versus open prostatectomy for prostates greater than 100 grams: 5-year follow-up results of a randomised clinical trial. Eur Urol. 2008; 53: 160-6

107670 Kuntz, R. M., Lehrich, K., Ahyai, S. Does perioperative outcome of transurethral holmium laser enucleation of the prostate depend on prostate size?. J Endourol. 2004 Mar; 18: 183-8

163850 Kuo, H. The relationships of urethral and pelvic floor muscles and the urethral pressure measurements in women with stress urinary incontinence. Eur Urol. 2000 Feb; 37: 149-55

136670 Kuo, H. C. Analysis of the pathophysiology of lower urinary tract symptoms in patients after prostatectomy. Urol Int. 2002; 68: 99-104

133040 Kuo, H. C. Botulinum A toxin urethral injection for the treatment of lower urinary tract dysfunction. J Urol. 2003 Nov; 170: 1908-12

128980 Kuo, H. C. Clinical effects of suburothelial injection of botulinum A toxin on patients with nonneurogenic detrusor overactivity refractory to anticholinergics. Urology. 2005 Jul; 66: 94-8

161480 Kuo, H. C. Clinical prostate score for diagnosis of bladder outlet obstruction by prostate measurements and uroflowmetry. Urology. 1999 Jul; 54: 90-6

139680 Kuo, H. C. Pathophysiology of lower urinary tract symptoms in aged men without bladder outlet obstruction. Urol Int. 2000; 64: 86-92

103450 Kuo, H. C. Prostate botulinum A toxin injection--an alternative treatment for benign prostatic obstruction in poor surgical candidates. Urology. 2005 Apr; 65: 670-4

127350 Kuo, H. C. Therapeutic effects of suburothelial injection of botulinum a toxin for neurogenic detrusor overactivity due to chronic cerebrovascular accident and spinal cord lesions. Urology. 2006 Feb; 67: 232-6

127550 Kuo, H. C., Liu, H. T. Investigation of dysfunctional voiding in children with urgency frequency syndrome and urinary incontinence. Urol Int. 2006; 76: 72-6

126080 Kuo, H. C., Liu, H. T., Yang, W. C. Therapeutic effect of multiple resiniferatoxin intravesical instillations in patients with refractory detrusor overactivity: a randomized, double-blind, placebo controlled study. J Urol. 2006 Aug; 176: 641-5

140550 Kuo, R. L., Kim, S. C., Lingeman, J. E., Paterson, R. F., Watkins, S. L., Simmons, G. R., Steele, R. E. Holmium laser enucleation of prostate (HoLEP): the Methodist Hospital experience with greater than 75 gram enucleations. J Urol. 2003 Jul; 170: 149-52

110680 Kuo, R. L., Paterson, R. F., Siqueira, T. M. , Jr., Watkins, S. L., Simmons, G. R., Steele, R. E., Lingeman, J. E. Holmium laser enucleation of the prostate: morbidity in a series of 206 patients. Urology. 2003 Jul; 62: 59-63

161930 Kupeli, S., Soygur, T., Yilmaz, E., Budak, M. Combined transurethal resection and vaporization of the prostate using newly designed electrode: a promising treatment alternative for benign prostatic hyperplasia. J Endourol. 1999 Apr; 13: 225-8

118140 Kupeli, S., Yilmaz, E., Soygur, T., Budak, M. Randomized study of transurethral resection of the prostate and combined transurethral resection and vaporization of the prostate as a therapeutic alternative in men with benign prostatic hyperplasia. J Endourol. 2001 Apr; 15: 317-21

125110 Kupelian, V., Wei, J. T., O'Leary, M. P., Kusek, J. W., Litman, H. J., Link, C. L., McKinlay, J. B. Prevalence of lower urinary tract symptoms and effect on quality of life in a racially and ethnically diverse random sample: the Boston Area Community Health (BACH) Survey. Arch Intern Med. 2006 Nov 27; 166: 2381-7

101650 Kuritzky, L. Noninvasive management of lower urinary tract symptoms and sexual dysfunction associated with benign prostatic hyperplasia in the primary care setting. Compr Ther. 2005 Fall; 31: 194-208

123820 Kuritzky, L., Rosenberg, M. T., Sadovsky, R. Efficacy and safety of alfuzosin 10 mg once daily in the treatment of symptomatic benign prostatic hyperplasia. Int J Clin Pract. 2006 Mar; 60: 351-8

118590 Kuriyama, M., Abrahamsson, P. A., Imai, K., Akimoto, S., Deguchi, N., Shichiri, Y., Sugiyama, Y., Niwa, T., Inoue, T. Determination of serum prostate-specific antigen-alpha1-antichymotrypsin complex for diagnosis of prostate cancer in Japanese cases. Scand J Urol Nephrol. 2001 Feb; 35: 10-May

127860 Kuriyama, N., Mizuno, T., Iida, A., Watanabe, Y., Nakagawa, M. Autonomic nervous evaluation in the early stages of olivopontocerebellar atrophy. Auton Neurosci. 2005 Dec 30; 123: 87-93

136120 Kuroda, M., Meguro, N., Maeda, O., Saiki, S., Kinouchi, T., Usami, M., Kotake, T. Stage specific follow-up strategy after cystectomy for carcinoma of the bladder. Int J Urol. 2002 Mar; 9: 129-33

152820 Kuroda, S. and Puri, P. Lack of association of IL8 gene polymorphisms with familial vesico-ureteral reflux. Pediatr Surg Int. 2007; 23: 441-5

111800 Kursh, E. D., Concepcion, R., Chan, S., Hudson, P., Ratner, M., Eyre, R. Interstitial laser coagulation versus transurethral prostate resection for treating benign prostatic obstruction: a randomized trial with 2-year follow-up. Urology. 2003 Mar; 61: 573-8

116040 Kusek, J. W., Ahrens, A., Burrows, P. K., Clarke, H. S., Foster, H. E., Hanson, K., Jacobs, S. C., Kirkemo, A., O'Berry, K., Pavlik, V. N. Recruitment for a clinical trial of drug treatment for benign prostatic hyperplasia. Urology. 2002 Jan; 59: 63-7

117930 Kusek, J. W., Nyberg, L. M. The epidemiology of interstitial cystitis: is it time to expand our definition?. Urology. 2001 Jun; 57: 95-9

151630 Kutikov, A., Guzzo, T. J. and Malkowicz, S. B. Clinical approach to the prostate: an update. Radiol Clin North Am. 2006; 44: 649-63, vii

155090 Kutikov, A., Nguyen, M., Guzzo, T., Canter, D. and Casale, P. Laparoscopic and robotic complex upper-tract reconstruction in children with a duplex collecting system. J Endourol. 2007; 21: 621-4

136830 Kuzmic, A. C., Brkljacic, B., Ivankovic, D. Sonographic measurement of detrusor muscle thickness in healthy children. Pediatr Nephrol. 2001 Dec; 16: 1122-5

115760 Kwak, C., Jin, R. J., Lee, C., Park, M. S., Lee, S. E. Thrombospondin-1, vascular endothelial growth factor expression and their relationship with p53 status in prostate cancer and benign prostatic hyperplasia. BJU Int. 2002 Feb; 89: 303-9

126110 Kwak, C., Lee, S. E., Jeong, I. G., Ku, J. H. Adjuvant systemic chemotherapy in the treatment of patients with invasive transitional cell carcinoma of the upper urinary tract. Urology. 2006 Jul; 68: 53-7

102760 Kwok, W. K., Ling, M. T., Lee, T. W., Lau, T. C., Zhou, C., Zhang, X., Chua, C. W., Chan, K. W., Chan, F. L., Glackin, C., Wong, Y. C., Wang, X. Up-regulation of TWIST in prostate cancer and its implication as a therapeutic target. Cancer Res. 2005 Jun 15; 65: 5153-62

155040 Kyllonen, L. E., Eklund, B. H., Pesonen, E. J. and Salmela, K. T. Single bolus antithymocyte globulin versus basiliximab induction in kidney transplantation with cyclosporine triple immunosuppression: efficacy and safety. Transplantation. 2007; 84: 75-82

111830 Kyprianou, N. Doxazosin and terazosin suppress prostate growth by inducing apoptosis: clinical significance. J Urol. 2003 Apr; 169: 1520-5

120520 Kyprianou, N., Chon, J., Benning, C. M. Effects of alpha(1)-adrenoceptor (alpha(1)-AR) antagonists on cell proliferation and apoptosis in the prostate: therapeutic implications in prostatic disease. Prostate Suppl. 2000; 9: 42-6

114540 Kyprianou, N., Jacobs, S. C. Induction of apoptosis in the prostate by alpha1-adrenoceptor antagonists: a novel effect of 'old' drugs. Curr Urol Rep. 2000 Aug; 1: 89-96

152760 La Manna, G., Virzi, S., Deraco, M., Capelli, I., Accorsi, A., Dalmastri, V., Comai, G., Bonomi, S., Grassi, A., Selva, S., Feliciangeli, G., Scolari, M. and Stefoni, S. Tubular dysfunction after peritonectomy and chemohyperthermic treatment with cisplatin. In Vivo. 2006; 20: 703-6

113900 Laaksovirta, S., Isotalo, T., Talja, M., Valimaa, T., Tormala, P., Tammela, T. L. Interstitial laser coagulation and biodegradable self-expandable, self-reinforced poly-L-lactic and poly-L-glycolic copolymer spiral stent in the treatment of benign prostatic enlargement. J Endourol. 2002 Jun; 16: 311-5

117290 Laaksovirta, S., Talja, M., Valimaa, T., Isotalo, T., Tormala, P., Tammela, T. L. Expansion and bioabsorption of the self-reinforced lactic and glycolic acid copolymer prostatic spiral stent. J Urol. 2001 Sep; 166: 919-22

155250 Labbene, I., Lamine, K., Gharsallah, H., Jebali, A., Adhoum, A., Ghozzi, S., Ben Rais, N. and Ferjani, M. Spinal anesthesia for endoscopic urological surgery--low dose vs. varying doses of hyperbaric bupivacaine. Middle East J Anesthesiol. 2007; 19: 369-84

118010 Lacey, J. V. , Jr., Deng, J., Dosemeci, M., Gao, Y. T., Mostofi, F. K., Sesterhenn, I. A., Xie, T., Hsing, A. W. Prostate cancer, benign prostatic hyperplasia and physical activity in Shanghai, China. Int J Epidemiol. 2001 Apr; 30: 341-9

105800 Laczko, I., Hudson, D. L., Freeman, A., Feneley, M. R., Masters, J. R. Comparison of the zones of the human prostate with the seminal vesicle: morphology, immunohistochemistry, and cell kinetics. Prostate. 2005 Feb 15; 62: 260-6

161320 Lagiou, P., Wuu, J., Trichopoulou, A., Hsieh, C. C., Adami, H. O., Trichopoulos, D. Diet and benign prostatic hyperplasia: a study in Greece. Urology. 1999 Aug; 54: 284-90

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

109390 Laguna, M. P., Alivizatos, G., De La Rosette, J. J. Interstitial laser coagulation treatment of benign prostatic hyperplasia: is it to be recommended?. J Endourol. 2003 Oct; 17: 595-600

136380 Laguna, M. P., Kiemeney, L. A., Debruyne, F. M., de la Rosette, J. J. Baseline prostatic specific antigen does not predict the outcome of high energy transurethral microwave thermotherapy. J Urol. 2002 Apr; 167: 1727-30

120210 Laguna, M. P., Muschter, R., Debruyne, F. M. Microwave thermotherapy: historical overview. J Endourol. 2000 Oct; 14: 603-9

122700 Laguna, P., Alivizatos, G. Prostate specific antigen and benign prostatic hyperplasia. Curr Opin Urol. 2000 Jan; 10: 8-Mar

150060 Lahdes-Vasama, T., Niskanen, K. and Ronnholm, K. Outcome of kidneys in patients treated for vesicoureteral reflux (VUR) during childhood. Nephrol Dial Transplant. 2006; 21: 2491-7

107790 Lam, J. S., Cooper, K. L., Kaplan, S. A. Changing aspects in the evaluation and treatment of patients with benign prostatic hyperplasia. Med Clin North Am. 2004 Mar; 88: 281-308

112120 Lam, J. S., Romas, N. A., Lowe, F. C. Long-term treatment with finasteride in men with symptomatic benign prostatic hyperplasia: 10-year follow-up. Urology. 2003 Feb; 61: 354-8

102270 Lam, J. S., Seligson, D. B., Yu, H., Li, A., Eeva, M., Pantuck, A. J., Zeng, G., Horvath, S., Belldegrun, A. S. Flap endonuclease 1 is overexpressed in prostate cancer and is associated with a high Gleason score. BJU Int. 2006 Aug; 98: 445-51

114620 Lam, J. S., Volpe, M. A., Kaplan, S. A. Use of prostatic stents for the treatment of benign prostatic hyperplasia in high-risk patients. Curr Urol Rep. 2001 Aug; 2: 277-84

126390 Lamplugh, M., Gilmore, P., Quinlan, T., Cornford, P. PSA testing: are patients aware of what lies ahead?. Ann R Coll Surg Engl. 2006 May; 88: 284-8

104790 Landers, K. A., Burger, M. J., Tebay, M. A., Purdie, D. M., Scells, B., Samaratunga, H., Lavin, M. F., Gardiner, R. A. Use of multiple biomarkers for a molecular diagnosis of prostate cancer. Int J Cancer. 2005 May 10; 114: 950-6

160210 Lane, T., Shah, J. Clinical features and management of benign prostatic hyperplasia. Hosp Med. 1999 Oct; 60: 705-9

161630 Langer, S. Z. History and nomenclature of alpha1-adrenoceptors. Eur Urol. 1999; 36 Suppl 1: 2-6

130680 Langner, C., Ratschek, M., Rehak, P., Schips, L., Zigeuner, R. CD10 is a diagnostic and prognostic marker in renal malignancies. Histopathology. 2004 Nov; 45: 460-7

130270 Laniado, M. E., Ockrim, J. L., Marronaro, A., Tubaro, A., Carter, S. S. Serum prostate-specific antigen to predict the presence of bladder outlet obstruction in men with urinary symptoms. BJU Int. 2004 Dec; 94: 1283-6

156860 Lao, C. S. and Bushar, H. F. Longitudinal data analysis in medical device clinical studies. J Biopharm Stat. 2008; 18: 44-53

119980 Lapidus, R. G., Tiffany, C. W., Isaacs, J. T., Slusher, B. S. Prostate-specific membrane antigen (PSMA) enzyme activity is elevated in prostate cancer cells. Prostate. 2000 Dec 1; 45: 350-4

100820 Lapitan, M. C., Acepcion, V., Mangubat, J. A comparative study on the safety and efficacy of tamsulosin and alfuzosin in the management of symptomatic benign prostatic hyperplasia: a randomized controlled clinical trial. J Int Med Res. 2005 Sep-Oct; 33: 562-73

101280 Larcher, P., Borroni, G., Begani, A., Franch, P., Grisotto, M. The use of vesical irrigation system dual pump Endo FMS urology in the endoscopic therapy of benign prostatic hyperplasia. Arch Ital Urol Androl. 2005 Jun; 77: 139-40

119290 Laribi, A., Berteau, P., Gala, J., Eschwege, P., Benoit, G., Tombal, B., Schmitt, F., Loric, S. Blood-borne RT-PCR assay for prostasin- specific transcripts to identify circulating prostate cells in cancer patients. Eur Urol. 2001 Jan; 39: 65-71

111970 Larner, T. R., Agarwal, D., Costello, A. J. Day-case holmium laser enucleation of the prostate for gland volumes of < 60 mL: early experience. BJU Int. 2003 Jan; 91: 61-4

110930 Larson, B. T., Bostwick, D. G., Corica, A. G., Larson, T. R. Histological changes of minimally invasive procedures for the treatment of benign prostatic hyperplasia and prostate cancer: clinical implications. J Urol. 2003 Jul; 170: 9-12

123140 Larson, B. T., Mynderse, L., Ulchaker, J., Pulling, C., Larson, T. R. Transurethral microwave thermotherapy effectiveness in small prostates. Urology. 2006 Oct; 68: 790-4

154990 Larson, B. T., Netto, N., Huidobro, C., de Lima, M. L., Matheus, W., Acevedo, C. and Larson, T. R. Intraprostatic injection of alcohol gel for the treatment of benign prostatic hyperplasia: preliminary clinical results. ScientificWorldJournal. 2006; 6: 2474-80

152330 Larson, B. T., Robertson, D. W., Huidobro, C., Acevedo, C., Busel, D., Collins, J. and Larson, T. R. Interstitial temperature mapping during Prolieve transurethral microwave treatment: imaging reveals thermotherapy temperatures resulting in tissue necrosis and patent prostatic urethra. Urology. 2006; 68: 1206-10

100540 Larson, B., Huidobro, C., Acevedo, C., Busel, D., Mynderses, L., Collins, J., Larson, T. In vivo temperature mapping of prostate during treatment with TherMatrx TMx-2000 device: heat field and MRI determinations of necrotic lesions. J Endourol. 2005 Oct; 19: 1021-5

111600 Larson, T. R. Current treatment options for benign prostatic hyperplasia and their impact on sexual function. Urology. 2003 Apr; 61: 692-8

115870 Larson, T. R. Rationale and assessment of minimally invasive approaches to benign prostatic hyperplasia therapy. Urology. 2002 Feb; 59: 12-6

131160 Latini, J. M., Mueller, E., Lux, M. M., Fitzgerald, M. P., Kreder, K. J. Voiding frequency in a sample of asymptomatic American men. J Urol. 2004 Sep; 172: 980-4

116970 Latini, J. M., Rieger-Christ, K. M., Wang, D. S., Silverman, M. L., Libertino, J. A., Summerhayes, I. C. Loss of heterozygosity and microsatellite instability at chromosomal sites 1Q and 10Q in morphologically distinct regions of late stage prostate lesions. J Urol. 2001 Nov; 166: 1931-6

121470 Lau, K. M., LaSpina, M., Long, J., Ho, S. M. Expression of estrogen receptor (ER)-alpha and ER-beta in normal and malignant prostatic epithelial cells: regulation by methylation and involvement in growth regulation. Cancer Res. 2000 Jun 15; 60: 3175-82

108760 Lau, Y. F., Lau, H. W., Komuves, L. G. Expression pattern of a gonadoblastoma candidate gene suggests a role of the Y chromosome in prostate cancer. Cytogenet Genome Res. 2003; 101: 250-60

122220 Lau, Y. F., Zhang, J. Expression analysis of thirty one Y chromosome genes in human prostate cancer. Mol Carcinog. 2000 Apr; 27: 308-21

122830 Lavoipierre, A. M. Ultrasound of the prostate and testicles. World J Surg. 2000 Feb; 24: 198-207

139310 Lazzeri, M., Beneforti, P., Spinelli, M., Zanollo, A., Barbagli, G., Turini, D. Intravesical resiniferatoxin for the treatment of hypersensitive disorder: a randomized placebo controlled study. J Urol. 2000 Sep; 164: 676-9

111540 Leav, I., McNeal, J. E., Ho, S. M., Jiang, Z. Alpha-methylacyl-CoA racemase (P504S) expression in evolving carcinomas within benign prostatic hyperplasia and in cancers of the transition zone. Hum Pathol. 2003 Mar; 34: 228-33

165130 Lee, C. M., Carter, J. T., Weinstein, R. J., Pease, H. M., Scandling, J. D., Pavalakis, M., Dafoe, D. C., Alfrey, E. J. Dual kidney transplantation: older donors for older recipients. J Am Coll Surg. 1999 Jul; 189: 82-91; discussion 91-2

161960 Lee, C. T., Capodieci, P., Osman, I., Fazzari, M., Ferrara, J., Scher, H. I., Cordon-Cardo, C. Overexpression of the cyclin-dependent kinase inhibitor p16 is associated with tumor recurrence in human prostate cancer. Clin Cancer Res. 1999 May; 5: 977-83

112550 Lee, E. Comparison of tamsulosin and finasteride for lower urinary tract symptoms associated with benign prostatic hyperplasia in Korean patients. J Int Med Res. 2002 Nov-Dec; 30: 584-90

127060 Lee, G. Y., Paradiso, G., Tator, C. H., Gentili, F., Massicotte, E. M., Fehlings, M. G. Surgical management of tethered cord syndrome in adults: indications, techniques, and long-term outcomes in 60 patients. J Neurosurg Spine. 2006 Feb; 4: 123-31

137010 Lee, H. J., Kim, S. H. Characteristic plain radiographic and intravenous urographic findings of bladder calculi formed over a hair nidus: a case report. Korean J Radiol. 2001 Jan-Mar; 2: 61-2

125480 Lee, J. Y., Kim, D. K., Chancellor, M. B. When to use antimuscarinics in men who have lower urinary tract symptoms. Urol Clin North Am. 2006 Nov; 33: 531-7, x

140340 Lee, J. Y., Kim, H. W., Lee, S. J., Koh, J. S., Suh, H. J., Chancellor, M. B. Comparison of doxazosin with or without tolterodine in men with symptomatic bladder outlet obstruction and an overactive bladder. BJU Int. 2004 Oct; 94: 817-20

105220 Lee, K. L., Peehl, D. M. Molecular and cellular pathogenesis of benign prostatic hyperplasia. J Urol. 2004 Nov; 172: 1784-91

101340 Lee, K. S., Choo, M. S., Kim, D. Y., Kim, J. C., Kim, H. J., Min, K. S., Lee, J. B., Jeong, H. J., Lee, T., Park, W. H. Combination treatment with propiverine hydrochloride plus doxazosin controlled release gastrointestinal therapeutic system formulation for overactive bladder and coexisting benign prostatic obstruction: a prospective, randomized, controlled multicenter st. J Urol. 2005 Oct; 174: 1334-8

117850 Lee, L. M., Pan, C. C., Cheng, C. J., Chi, C. W., Liu, T. Y. Expression of cyclooxygenase-2 in prostate adenocarcinoma and benign prostatic hyperplasia. Anticancer Res. 2001 Mar-Apr; 21: 1291-4

110410 Lee, M. Alfuzosin hydrochloride for the treatment of benign prostatic hyperplasia. Am J Health Syst Pharm. 2003 Jul 15; 60: 1426-39

122560 Lee, M. Tamsulosin for the treatment of benign prostatic hypertrophy. Ann Pharmacother. 2000 Feb; 34: 188-99

136770 Lee, R., Penson, D. F. Treatment outcomes in localized prostate cancer: a patient-oriented approach. Semin Urol Oncol. 2002 Feb; 20: 63-73

130980 Lee, S. J., Kim, S. W., Cho, Y. H., Shin, W. S., Lee, S. E., Kim, C. S., Hong, S. J., Chung, B. H., Kim, J. J., Yoon, M. S. A comparative multicentre study on the incidence of catheter-associated urinary tract infection between nitrofurazone-coated and silicone catheters. Int J Antimicrob Agents. 2004 Sep; 24 Suppl 1: S65-9

116880 Lee, T., Seong, D. H., Yoon, S. M., Ryu, J. K. Prostate shape and symptom score in benign prostatic hyperplasia. Yonsei Med J. 2001 Oct; 42: 532-8

103690 Lee, Y. H., Chiu, A. W., Huang, J. K. Comprehensive study of bladder neck contracture after transurethral resection of prostate. Urology. 2005 Mar; 65: 498-503; discussion 503

152830 Lee, Y. Y., Tsay, W. L., Lou, M. F. and Dai, Y. T. The effectiveness of implementing a bladder ultrasound programme in neurosurgical units. J Adv Nurs. 2007; 57: 192-200

118860 Leewansangtong, S., Tantiwong, A., Ratanarapee, S., Nualyong, C., Soontrapa, S. The risks of prostate cancer detection by transrectal ultrasound guide biopsy in Thai men with abnormal prostatic-specific antigen or abnormal digital rectal examination. J Med Assoc Thai. 2000 Dec; 83: 1519-24

120770 Lefaucheur, J. P., Yiou, R., Salomon, L., Chopin, D. K., Abbou, C. C. Assessment of penile small nerve fiber damage after transurethral resection of the prostate by measurement of penile thermal sensation. J Urol. 2000 Oct; 164: 1416-9

136460 Legare, J. F., Henteleff, H. J., Casson, A. G. Results of Collis gastroplasty and selective fundoplication, using a left thoracoabdominal approach, for failed antireflux surgery. Eur J Cardiothorac Surg. 2002 Mar; 21: 534-40

136270 Legua, P., Lema, J., Moll, J., Jiang, Q., Woods, G., Friedland, I. Safety and local tolerability of intramuscularly administered ertapenem diluted in lidocaine: a prospective, randomized, double-blind study versus intramuscular ceftriaxone. Clin Ther. 2002 Mar; 24: 434-44

102910 Lehnigk, U., Zimmermann, U., Woenckhaus, C., Giebel, J. Localization of annexins I, II, IV and VII in whole prostate sections from radical prostatectomy patients. Histol Histopathol. 2005 Jul; 20: 673-80

125390 Lehrer, S., Cesaretti, J., Stone, N. N., Stock, R. G. Urinary symptom flare after brachytherapy for prostate cancer is associated with erectile dysfunction and more urinary symptoms before implantation. BJU Int. 2006 Nov; 98: 979-81

103420 Lehrer, S., Diamond, E. J., Mamkine, B., Droller, M. J., Stone, N. N., Stock, R. G. C-reactive protein is significantly associated with prostate-specific antigen and metastatic disease in prostate cancer. BJU Int. 2005 May; 95: 961-2

113110 Lehrer, S., Diamond, E. J., Stone, N. N., Droller, M. J., Stock, R. G. Serum triiodothyronine is increased in men with prostate cancer and benign prostatic hyperplasia. J Urol. 2002 Dec; 168: 2431-3

102100 Lehrer, S., Diamond, E. J., Stone, N. N., Stock, R. G. Serum thyroid-stimulating hormone is elevated in men with Gleason 8 prostate cancer. BJU Int. 2005 Aug; 96: 328-9

110470 Lehrer, S., Roboz, J., Ding, H., Zhao, S., Diamond, E. J., Holland, J. F., Stone, N. N., Droller, M. J., Stock, R. G. Putative protein markers in the sera of men with prostatic neoplasms. BJU Int. 2003 Aug; 92: 223-5

120660 Leibovici, D., Zisman, A., Chen-Levyi, Z., Cypele, H., Siegel, Y. I., Faitelovich, S., Lindner, A. Elevated prostate specific antigen serum levels after intravesical instillation of bacillus Calmette-Guerin. J Urol. 2000 Nov; 164: 1546-9

161550 Lein, M., Jung, K., Brux, B., Knabich, A., Sinha, P., Schnorr, D., Loening, S. A. Re: Free and complexed prostate specific antigen in the differentiation of benign prostatic hyperplasia and prostate cancer: studies in serum and plasma samples. J Urol. 1999 Aug; 162: 502-3

118260 Lein, M., Jung, K., Elgeti, U., Brux, B., Sinha, P., Schnorr, D., Loening, S. A. Ratio of alpha 1-antichymotrypsin--prostate specific antigen to total prostate specific antigen in prostate cancer diagnosis. Anticancer Res. 2000 Nov-Dec; 20: 4997-5001

119300 Lein, M., Jung, K., Elgeti, U., Petras, T., Stephan, C., Brux, B., Sinha, P., Winkelmann, B., Schnorr, D., Loening, S. Comparison of the clinical validity of free prostate-specific antigen, alpha-1 antichymotrypsin-bound prostate-specific antigen and complexed prostate-specific antigen in prostate cancer diagnosis. Eur Urol. 2001 Jan; 39: 57-64

118120 Lein, M., Jung, K., Hammerer, P., Graefen, M., Semjonow, A., Stieber, P., Ossendorf, M., Luboldt, H. J., Brux, B., Stephan, C., Schnorr, D., Loening, S. A. A multicenter clinical trial on the use of alpha1-antichymotrypsin-prostate-specific antigen in prostate cancer diagnosis. Prostate. 2001 May 1; 47: 77-84

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

118330 Leinonen, J., Wu, P., Koivunen, E., Narvanen, A., Stenman, U. H. Development of novel peptide ligands modulating the enzyme activity of prostate-specific antigen. Scand J Clin Lab Invest Suppl. 2000; 233: 59-64

102150 Lekas, A. G., Lazaris, A. C., Chrisofos, M., Papatsoris, A. G., Lappas, D., Patsouris, E., Deliveliotis, C. Finasteride effects on hypoxia and angiogenetic markers in benign prostatic hyperplasia. Urology. 2006 Aug; 68: 436-41

150730 Lekas, A., Lazaris, A. C., Deliveliotis, C., Chrisofos, M., Zoubouli, C., Lapas, D., Papathomas, T., Fokitis, I. and Nakopoulou, L. The expression of hypoxia-inducible factor-1alpha (HIF-1alpha) and angiogenesis markers in hyperplastic and malignant prostate tissue. Anticancer Res. 2006; 26: 2989-93

123800 Lekili, M., Muezzinoglu, T., Uyanik, B. S., Buyuksu, C. Serum lipid levels in benign prostatic hyperplasia. World J Urol. 2006 Jun; 24: 210-3

115780 Leliefeld, H. H., Stoevelaar, H. J., McDonnell, J. Sexual function before and after various treatments for symptomatic benign prostatic hyperplasia. BJU Int. 2002 Feb; 89: 208-13

121120 Lemack, G. E., Dewey, R. B. , Jr., Roehrborn, C. G., O'Suilleabhain, P. E., Zimmern, P. E. Questionnaire-based assessment of bladder dysfunction in patients with mild to moderate Parkinson's disease. Urology. 2000 Aug 1; 56: 250-4

163560 Lemack, G. E., Zimmern, P. E. Pressure flow analysis may aid in identifying women with outflow obstruction. J Urol. 2000 Jun; 163: 1823-8

101560 Lemma, B. E., Taye, M., Hawando, T., Bakke, A. Clinical value of uroflowmentry in selected cases of bladder outlet obstruction. Ethiop Med J. 2004 Oct; 42: 283-7

160930 Lenert, L. A., Cher, D. J. Use of meta-analytic results to facilitate shared decision making. J Am Med Inform Assoc. 1999 Sep-Oct; 6: 412-9

134560 Leng, W. W., McGuire, E. J. Obstructive uropathy induced bladder dysfunction can be reversible: bladder compliance measures before and after treatment. J Urol. 2003 Feb; 169: 563-6

155710 Leocadio, D. E., Frenkl, T. L. and Stein, B. S. Office based transurethral needle ablation of the prostate with analgesia and local anesthesia. J Urol. 2007; 178: 2052-4; discussion 2054

155760 Leonardo, C. R., Filgueiras, M. F., Vasconcelos, M. M., Vasconcelos, R., Marino, V. P., Pires, C., Pereira, A. C., Reis, F., Oliveira, E. A. and Lima, E. M. Risk factors for renal scarring in children and adolescents with lower urinary tract dysfunction. Pediatr Nephrol. 2007; 22: 1891-6

101070 Lepor, H. Insights into the natural history and treatment of benign prostatic hyperplasia. J Urol. 2006 Mar; 175: 815-6

122260 Lepor, H., Jones, K., Williford, W. The mechanism of adverse events associated with terazosin: an analysis of the Veterans Affairs cooperative study. J Urol. 2000 Apr; 163: 1134-7

132350 Lepor, H., Kaci, L. The impact of open radical retropubic prostatectomy on continence and lower urinary tract symptoms: a prospective assessment using validated self-administered outcome instruments. J Urol. 2004 Mar; 171: 1216-9

165830 Lerner, L. B., Henriques, H. F., Harris, R. D. Interactive 3-dimensional computerized tomography reconstruction in evaluation of the living renal donor. J Urol. 1999 Feb; 161: 403-7

155950 Leskela, S., Honrado, E., Montero-Conde, C., Landa, I., Cascon, A., Leton, R., Talavera, P., Cozar, J. M., Concha, A., Robledo, M. and Rodriguez-Antona, C. Cytochrome P450 3A5 is highly expressed in normal prostate cells but absent in prostate cancer. Endocr Relat Cancer. 2007; 14: 645-54

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

150500 Leto, G., Incorvaia, L., Badalamenti, G., Tumminello, F. M., Gebbia, N., Flandina, C., Crescimanno, M. and Rini, G. Activin A circulating levels in patients with bone metastasis from breast or prostate cancer. Clin Exp Metastasis. 2006; 23: 117-22

134990 Lettgen, B., von Gontard, A., Olbing, H., Heiken-Lowenau, C., Gaebel, E., Schmitz, I. Urge incontinence and voiding postponement in children: somatic and psychosocial factors. Acta Paediatr. 2002; 91: 978-84; discussion 895-6

155370 Leung, N., Dispenzieri, A., Lacy, M. Q., Kumar, S. K., Hayman, S. R., Fervenza, F. C., Cha, S. S. and Gertz, M. A. Severity of baseline proteinuria predicts renal response in immunoglobulin light chain-associated amyloidosis after autologous stem cell transplantation. Clin J Am Soc Nephrol. 2007; 2: 440-4

129140 Leungwattanakij, S., Roongreungsilp, U., Lertsithichai, P., Ratana-Olarn, K. The association between erectile function and severity of lower urinary tract symptoms. J Med Assoc Thai. 2005 Jan; 88: 91-5

118950 Leventis, A. K., Shariat, S. F., Utsunomiya, T., Slawin, K. M. Characteristics of normal prostate vascular anatomy as displayed by power Doppler. Prostate. 2001 Mar 1; 46: 281-8

153020 Levesque, M. H., El-Alfy, M., Berger, L., Labrie, F. and Labrie, C. Evaluation of AIbZIP and Cdc47 as markers for human prostatic diseases. Urology. 2007; 69: 196-201

121060 Levi, A. W., Epstein, J. I. Pseudohyperplastic prostatic adenocarcinoma on needle biopsy and simple prostatectomy. Am J Surg Pathol. 2000 Aug; 24: 1039-46

111030 Levi, F., Lucchini, F., Negri, E., Boyle, P., La Vecchia, C. Recent trends in mortality from benign prostatic hyperplasia. Prostate. 2003 Aug 1; 56: 207-11

121100 Levin, R. M., Das, A. K. A scientific basis for the therapeutic effects of Pygeum africanum and Serenoa repens. Urol Res. 2000 Jun; 28: 201-9

106670 Levin, R. M., Hudson, A. P. The molecular genetic basis of mitochondrial malfunction in bladder tissue following outlet obstruction. J Urol. 2004 Aug; 172: 438-47

105150 Levin, R., Chichester, P., Levin, S., Buttyan, R. Role of angiogenesis in bladder response to partial outlet obstruction. Scand J Urol Nephrol Suppl. 2004; : 37-47

128060 Levine, S., Smith, V. V., Malone, M., Sebire, N. J. Histopathological features of chronic granulomatous disease (CGD) in childhood. Histopathology. 2005 Nov; 47: 508-16

154590 Levy, A. and Samraj, G. P. Benign prostatic hyperplasia: when to 'watch and wait,' when and how to treat. Cleve Clin J Med. 2007; 74 Suppl 3: S15-20

128650 Lewis, L. M., Banet, G. A., Blanda, M., Hustey, F. M., Meldon, S. W., Gerson, L. W. Etiology and clinical course of abdominal pain in senior patients: a prospective, multicenter study. J Gerontol A Biol Sci Med Sci. 2005 Aug; 60: 1071-6

120280 Lewsey, J. D., Leyland, A. H., Murray, G. D., Boddy, F. A. Using routine data to complement and enhance the results of randomised controlled trials. Health Technol Assess. 2000; 4: 1-55

111810 Li, C., Gronberg, H., Matsuyama, H., Weber, G., Nordenskjold, M., Naito, K., Bergh, A., Bergerheim, U., Damber, J. E., Larsson, C., Ekman, P. Difference between Swedish and Japanese men in the association between AR CAG repeats and prostate cancer suggesting a susceptibility-modifying locus overlapping the androgen receptor gene. Int J Mol Med. 2003 Apr; 11: 529-33

129810 Li, J., Juliar, B., Yiannoutsos, C., Ansari, R., Fox, E., Fisch, M. J., Einhorn, L. H., Sweeney, C. J. Weekly paclitaxel and gemcitabine in advanced transitional-cell carcinoma of the urothelium: a phase II Hoosier Oncology Group study. J Clin Oncol. 2005 Feb 20; 23: 1185-91

107620 Li, J., White, N., Zhang, Z., Rosenzweig, J., Mangold, L. A., Partin, A. W., Chan, D. W. Detection of prostate cancer using serum proteomics pattern in a histologically confirmed population. J Urol. 2004 May; 171: 1782-7

122580 Li, L. C., Chui, R., Nakajima, K., Oh, B. R., Au, H. C., Dahiya, R. Frequent methylation of estrogen receptor in prostate cancer: correlation with tumor progression. Cancer Res. 2000 Feb 1; 60: 702-6

112510 Li, M. J., Hsu, H. S., Liang, R. C., Lin, S. Y. Infrared microspectroscopic detection of epithelial and stromal growth in the human benign prostatic hyperplasia. Ultrastruct Pathol. 2002 Nov-Dec; 26: 365-70

127870 Li, M. K., Garcia, L. A., Rosen, R. Lower urinary tract symptoms and male sexual dysfunction in Asia: a survey of ageing men from five Asian countries. BJU Int. 2005 Dec; 96: 1339-54

156370 Li, M. K., Garcia, L., Patron, N., Moh, L. C., Sundram, M., Leungwattanakij, S., Pripatnanont, C., Cheng, C., Chi-Wai, M. and Loi-Cheong, N. An Asian multinational prospective observational registry of patients with benign prostatic hyperplasia, with a focus on comorbidities, lower urinary tract symptoms and sexual function. BJU Int. 2008; 101: 197-202

100830 Li, R., Wheeler, T. M., Dai, H., Sayeeduddin, M., Scardino, P. T., Frolov, A., Ayala, G. E. Biological correlates of p27 compartmental expression in prostate cancer. J Urol. 2006 Feb; 175: 528-32

106790 Li, R., Wheeler, T., Dai, H., Frolov, A., Thompson, T., Ayala, G. High level of androgen receptor is associated with aggressive clinicopathologic features and decreased biochemical recurrence-free survival in prostate: cancer patients treated with radical prostatectomy. Am J Surg Pathol. 2004 Jul; 28: 928-34

105000 Li, R., Yao, J. L., Bourne, P. A., di Sant'Agnese, P. A., Huang, J. Frequent expression of human carcinoma-associated antigen, a mucin-type glycoprotein, in cells of prostatic carcinoma. Arch Pathol Lab Med. 2004 Dec; 128: 1412-7

110250 Li, R., Younes, M., Frolov, A., Wheeler, T. M., Scardino, P., Ohori, M., Ayala, G. Expression of neutral amino acid transporter ASCT2 in human prostate. Anticancer Res. 2003 Jul-Aug; 23: 3413-8

108610 Li, R., Younes, M., Wheeler, T. M., Scardino, P., Ohori, M., Frolov, A., Ayala, G. Expression of vascular endothelial growth factor receptor-3 (VEGFR-3) in human prostate. Prostate. 2004 Feb 1; 58: 193-9

155410 Li, W., Wu, C. L., Febbo, P. G. and Olumi, A. F. Stromally expressed c-Jun regulates proliferation of prostate epithelial cells. Am J Pathol. 2007; 171: 1189-98

156840 Li, X. S., Li, W. Q. and Wang, W. B. Using targeted magnetic arsenic trioxide nanoparticles for osteosarcoma treatment. Cancer Biother Radiopharm. 2007; 22: 772-8

120570 Li, X., McCoy, K. A., Murray, W. V., Jolliffe, L., Pulito, V. Novel heterocycles as selective alpha1-adrenergic receptor antagonists. Bioorg Med Chem Lett. 2000 Oct 16; 10: 2375-7

121650 Li, X., Murray, W. V., Jolliffe, L., Pulito, V. Novel arylpiperazines as selective alpha1-adrenergic receptor antagonists. Bioorg Med Chem Lett. 2000 May 15; 10: 1093-6

111050 Li, Z., Habuchi, T., Mitsumori, K., Kamoto, T., Kinoshitu, H., Segawa, T., Ogawa, O., Kato, T. Association of V89L SRD5A2 polymorphism with prostate cancer development in a Japanese population. J Urol. 2003 Jun; 169: 2378-81

109550 Li, Z., Habuchi, T., Tsuchiya, N., Mitsumori, K., Wang, L., Ohyama, C., Sato, K., Kamoto, T., Ogawa, O., Kato, T. Increased risk of prostate cancer and benign prostatic hyperplasia associated with transforming growth factor-beta 1 gene polymorphism at codon10. Carcinogenesis. 2004 Feb; 25: 237-40

100390 Liang, C. Z., Guo, Q. K., Hao, Z. Y., Yang, S., Wang, D. B., Wu, L. X., Liu, C., Wang, K. X., Zhang, X. J. K channel expression in prostate epithelium and its implications in men with chronic prostatitis. BJU Int. 2006 Jan; 97: 190-2

150750 Liao, L. M. and Schaefer, W. Cross-sectional and longitudinal studies on interaction between bladder compliance and outflow obstruction in men with benign prostatic hyperplasia. Asian J Androl. 2007; 9: 51-6

156160 Liao, L. M. and Schaefer, W. Effects of retrospective quality control on pressure-flow data with computer-based urodynamic systems from men with benign prostatic hyperplasia. Asian J Androl. 2007; 9: 771-80

118880 Liao, L. M., Shi, B. Y., Liang, C. Q., Schafer, W. Evaluation for Madigan's prostatectomy in patients with benign prostatic hyperplasia. Asian J Androl. 2001 Mar; 3: 33-7

116220 Liao, S. The medicinal action of androgens and green tea epigallocatechin gallate. Hong Kong Med J. 2001 Dec; 7: 369-74

155460 Liao, Y. M. and Kuo, H. C. Causes of failed urethral botulinum toxin A treatment for emptying failure. Urology. 2007; 70: 763-6

109830 Liao, Y., Grobholz, R., Abel, U., Trojan, L., Michel, M. S., Angel, P., Mayer, D. Increase of AKT/PKB expression correlates with gleason pattern in human prostate cancer. Int J Cancer. 2003 Nov 20; 107: 676-80

157360 Licastro, F., Bertaccini, A., Porcellini, E., Chiappelli, M., Pernetti, R., Sanguedolce, F., Marchiori, D. and Martorana, G. Alpha 1 antichymotrypsin genotype is associated with increased risk of prostate carcinoma and PSA levels. Anticancer Res. 2008; 28: 395-9

160590 Lichius, J. J., Lenz, C., Lindemann, P., Muller, H. H., Aumuller, G., Konrad, L. Antiproliferative effect of a polysaccharide fraction of a 20% methanolic extract of stinging nettle roots upon epithelial cells of the human prostate (LNCaP). Pharmazie. 1999 Oct; 54: 768-71

104690 Lichy, M. P., Pintaske, J., Kottke, R., Machann, J., Anastasiadis, A., Roell, S., Hennenlotter, J., Diergarten, T., Schick, F., Stenzl, A., Claussen, C. D., Schlemmer, H. P. 3D proton MR spectroscopic imaging of prostate cancer using a standard spine coil at 1.5 T in clinical routine: a feasibility study. Eur Radiol. 2005 Apr; 15: 653-60

116520 Lieber, M. M., Jacobsen, S. J., Roberts, R. O., Rhodes, T., Girman, C. J. Prostate volume and prostate-specific antigen in the absence of prostate cancer: a review of the relationship and prediction of long-term outcomes. Prostate. 2001 Nov 1; 49: 208-12

108820 Liedberg, F., Adell, L., Hagberg, G., Palmqvist, I. B. Interstitial laser coagulation versus transurethral resection of the prostate for benign prostatic enlargement--a prospective randomized study. Scand J Urol Nephrol. 2003; 37: 494-7

127730 Liew, L. C., Tiong, H. Y., Wong, M. L., Png, D. C., Tan, J. K. A population study of nocturia in Singapore. BJU Int. 2006 Jan; 97: 109-12

105850 Lightfoot, N., Conlon, M., Kreiger, N., Sass-Kortsak, A., Purdham, J., Darlington, G. Medical history, sexual, and maturational factors and prostate cancer risk. Ann Epidemiol. 2004 Oct; 14: 655-62

151260 Liguori, G., Trombetta, C., Pomara, G., Amodeo, A., Bucci, S., Garaffa, G., Francesca, F. and Belgrano, E. Major invasive surgery for urologic cancer in octogenarians with comorbid medical conditions. Eur Urol. 2007; 51: 1600-4; discussion 1605

114470 Lijovic, M., Somers, G., Frauman, A. G. KAI1/CD82 protein expression in primary prostate cancer and in BPH associated with cancer. Cancer Detect Prev. 2002; 26: 69-77

152220 Lim, K. B., Ho, H., Foo, K. T., Wong, M. Y. and Fook-Chong, S. Comparison of intravesical prostatic protrusion, prostate volume and serum prostatic-specific antigen in the evaluation of bladder outlet obstruction. Int J Urol. 2006; 13: 1509-13

130300 Lim, K. B., Wong, M. Y., Foo, K. T. Transurethral resection of prostate (TURP) through the decades--a comparison of results over the last thirty years in a single institution in Asia. Ann Acad Med Singapore. 2004 Nov; 33: 775-9

114380 Lim, P. H., Li, M. K., Ng, F. C., Chia, S. J., Consigliere, D., Gooren, L., Ng, K. K., Munisamy, M., Perianan, M. Clinical efficacy and safety of sildenafil citrate (Viagra) in a multi-racial population in Singapore: A retrospective study of 1520 patients. Int J Urol. 2002 Jun; 9: 308-15

139970 Lin, D. S., Huang, F. Y., Chiu, N. C., Koa, H. A., Hung, H. Y., Hsu, C. H., Hsieh, W. S., Yang, D. I. Comparison of hemocytometer leukocyte counts and standard urinalyses for predicting urinary tract infections in febrile infants. Pediatr Infect Dis J. 2000 Mar; 19: 223-7

155510 Lin, J. F., Xu, J., Tian, H. Y., Gao, X., Chen, Q. X., Gu, Q., Xu, G. J., Song, J. D. and Zhao, F. K. Identification of candidate prostate cancer biomarkers in prostate needle biopsy specimens using proteomic analysis. Int J Cancer. 2007; 121: 2596-605

112890 Lin, J., Freeman, M. R. Transactivation of ErbB1 and ErbB2 receptors by angiotensin II in normal human prostate stromal cells. Prostate. 2003 Jan 1; 54: 7-Jan

107390 Lin, T. P., Huang, W. J., Chen, K. K. Differentiation of benign prostatic hyperplasia from prostate cancer using prostate specific antigen dynamic profile after transrectal prostate biopsy. J Urol. 2004 Jun; 171: 2226-9

119420 Lin, V. K., Benaim, E. A., McConnell, J. D. Alpha-blockade downregulates myosin heavy chain gene expression in human benign prostatic hyperplasia. Urology. 2001 Jan; 57: 170-5

121230 Lin, V. K., Wang, D., Lee, I. L., Vasquez, D., Fagelson, J. E., McConnell, J. D. Myosin heavy chain gene expression in normal and hyperplastic human prostate tissue. Prostate. 2000 Aug 1; 44: 193-203

104750 Lin, V. K., Wang, S. Y., Boetticher, N. C., Vazquez, D. V., Saboorian, H., McConnell, J. D., Roehrborn, C. G. Alpha(2) macroglobulin, a PSA binding protein, is expressed in human prostate stroma. Prostate. 2005 May 15; 63: 299-308

154880 Lin, V. K., Wang, S. Y., Vazquez, D. V., C, C. X., Zhang, S. and Tang, L. Prostatic stromal cells derived from benign prostatic hyperplasia specimens possess stem cell like property. Prostate. 2007; 67: 1265-76

132370 Lindley, R. M., Mackinnon, A. E., Shipstone, D., Tophill, P. R. Long-term outcome in bladder detrusorectomy augmentation. Eur J Pediatr Surg. 2003 Dec; 13 Suppl 1: S7-12

108280 Linja, M. J., Porkka, K. P., Kang, Z., Savinainen, K. J., Janne, O. A., Tammela, T. L., Vessella, R. L., Palvimo, J. J., Visakorpi, T. Expression of androgen receptor coregulators in prostate cancer. Clin Cancer Res. 2004 Feb 1; 10: 1032-40

118300 Linja, M. J., Savinainen, K. J., Saramaki, O. R., Tammela, T. L., Vessella, R. L., Visakorpi, T. Amplification and overexpression of androgen receptor gene in hormone-refractory prostate cancer. Cancer Res. 2001 May 1; 61: 3550-5

111400 Linja, M. J., Savinainen, K. J., Tammela, T. L., Isola, J. J., Visakorpi, T. Expression of ERalpha and ERbeta in prostate cancer. Prostate. 2003 May 15; 55: 180-6

155440 Link, B. A., Slobodov, G., Campbell, J. B. and Kropp, B. P. Radiographic changes following excisional tapering and reimplantation of megaureters in childhood: long-term outcome in 46 renal units. J Urol. 2007; 178: 1474-8

112330 Linton, H. J., Marks, L. S., Millar, L. S., Knott, C. L., Rittenhouse, H. G., Mikolajczyk, S. D. Benign prostate-specific antigen (BPSA) in serum is increased in benign prostate disease. Clin Chem. 2003 Feb; 49: 253-9

104840 Lintula, S., Stenman, J., Bjartell, A., Nordling, S., Stenman, U. H. Relative concentrations of hK2/PSA mRNA in benign and malignant prostatic tissue. Prostate. 2005 Jun 1; 63: 324-9

164920 Lip, G. Y., Rathore, V. S., Katira, R., Singh, S. P., Watson, R. D. Changes in renal function with percutaneous transluminal coronary angioplasty. Int J Cardiol. 1999 Jul 31; 70: 127-31

150020 Lipowska, M., He, H., Malveaux, E., Xu, X., Marzilli, L. G. and Taylor, A. First evaluation of a 99mTc-tricarbonyl complex, 99mTc(CO)3(LAN), as a new renal radiopharmaceutical in humans. J Nucl Med. 2006; 47: 1032-40

140250 Lipsky, B. A. Managing urinary tract infections in men. Hosp Pract (Minneap). 2000 Jan 15; 35: 53-9; discussion 59-60; quiz 144

104040 Litwin, M. S., Saigal, C. S., Yano, E. M., Avila, C., Geschwind, S. A., Hanley, J. M., Joyce, G. F., Madison, R., Pace, J., Polich, S. M., Wang, M. Urologic diseases in America Project: analytical methods and principal findings. J Urol. 2005 Mar; 173: 933-7

156170 Liu, B. Q., Wu, Y. D., Li, P. H., Wei, J. X., Zhang, T. and Liu, R. L. Prostate cancer antigen-1 as a potential novel marker for prostate cancer. Asian J Androl. 2007; 9: 821-6

111130 Liu, C. C., Huang, S. P., Chou, Y. H., Wang, C. J., Huang, C. H. Current indications for transurethral resection of the prostate and associated complications. Kaohsiung J Med Sci. 2003 Feb; 19: 49-54

156290 Liu, C. C., Huang, S. P., Li, W. M., Wang, C. J., Chou, Y. H., Li, C. C., Huang, C. H. and Wu, W. J. Relationship between serum testosterone and measures of benign prostatic hyperplasia in aging men. Urology. 2007; 70: 677-80

123180 Liu, C. C., Huang, S. P., Li, W. M., Wang, C. J., Wu, W. J., Chou, Y. H., Huang, C. H. Are lower urinary tract symptoms associated with erectile dysfunction in aging males of Taiwan?. Urol Int. 2006; 77: 251-4

106610 Liu, C. C., Wang, C. J., Huang, S. P., Chou, Y. H., Wu, W. J., Huang, C. H. Relationships between American Urological Association symptom index, prostate volume, and disease-specific quality of life question in patients with benign prostatic hyperplasia. Kaohsiung J Med Sci. 2004 Jun; 20: 273-8

113330 Liu, C. C., Yen, D. H., Lu, C. L., Chern, C. H., Lee, C. H. Acute urinary retention in the elderly: an unusual presentation of appendicitis with a high perforation risk. Gerontology. 2002 Nov-Dec; 48: 387-91

151800 Liu, C. K., Lee, W. K., Ko, M. C., Jeng, H. S., Chiang, H. S. and Yu, H. J. Transurethral RollerLoop vapor resection of prostate for treatment of symptomatic benign prostatic hyperplasia: a 2-year follow-up study. Scand J Urol Nephrol. 2006; 40: 409-15

164320 Liu, C., Chin, T., Wei, C. Contralateral reflux after unilateral ureteral reimplantation--preexistent rather than new-onset reflux. J Pediatr Surg. 1999 Nov; 34: 1661-4

138440 Liu, I. J., Zafar, M. B., Lai, Y. H., Segall, G. M., Terris, M. K. Fluorodeoxyglucose positron emission tomography studies in diagnosis and staging of clinically organ-confined prostate cancer. Urology. 2001 Jan; 57: 108-11

133920 Liu, K. H., Lee, H. C., Chuang, Y. C., Tu, C. A., Chang, K., Lee, N. Y., Kos, W. C. Prostatic abscess in southern Taiwan: another invasive infection caused predominantly by Klebsiella pneumoniae. J Microbiol Immunol Infect. 2003 Mar; 36: 31-6

119490 Liu, X., Wang, L., Lin, Y., Teng, Q., Zhao, C., Hu, H., Chi, W. Ornithine decarboxylase activity and its gene expression are increased in benign hyperplastic prostate. Prostate. 2000 May 1; 43: 83-7

152690 Liu, Y. M., Shiau, C. Y., Lee, M. L., Huang, P. I., Hsieh, C. M., Chen, P. H., Lin, Y. H., Wang, L. W. and Yen, S. H. The role and strategy of IMRT in radiotherapy of pelvic tumors: Dose escalation and critical organ sparing in prostate cancer. Int J Radiat Oncol Biol Phys. 2007; 67: 1113-23

164990 Ljungberg, B., Osterdahl, B., Mehle, C. Clinical significance of nm23 expression in renal cell carcinoma. Urol Res. 1999 Apr; 27: 103-7

152430 Llorente, C., Ruiz, M., Rejas Gutierrez, J., Esteban, M., Villasante, F. and Hareendran, A. Linguistic adaptation and validation of the Spanish version of the Benign Prostatic Hyperplasia-Patient Impact Measure (BPH-PIM). Clin Drug Investig. 2006; 26: 103-12

150520 Lock, E. A., Barth, J. L., Argraves, S. W. and Schnellmann, R. G. Changes in gene expression in human renal proximal tubule cells exposed to low concentrations of S-(1,2-dichlorovinyl)-l-cysteine, a metabolite of trichloroethylene. Toxicol Appl Pharmacol. 2006; 216: 319-30

106130 Lockett, K. L., Hall, M. C., Xu, J., Zheng, S. L., Berwick, M., Chuang, S. C., Clark, P. E., Cramer, S. D., Lohman, K., Hu, J. J. The ADPRT V762A genetic variant contributes to prostate cancer susceptibility and deficient enzyme function. Cancer Res. 2004 Sep 1; 64: 6344-8

136950 Lodha, R., Natchu, U. C., Nanda, M., Kabra, S. K. Nosocomial infections in pediatric intensive care units. Indian J Pediatr. 2001 Nov; 68: 1063-70

105550 Lodygin, D., Diebold, J., Hermeking, H. Prostate cancer is characterized by epigenetic silencing of 14-3-3sigma expression. Oncogene. 2004 Dec 2; 23: 9034-41

156020 Loeb, S., Roehl, K. A., Nadler, R. B., Yu, X. and Catalona, W. J. Prostate specific antigen velocity in men with total prostate specific antigen less than 4 ng/ml. J Urol. 2007; 178: 2348-52; discussion 2352-3

136600 Logadottir, Y., Dahlstrand, C., Fall, M., Knutson, T., Peeker, R. Invasive urodynamic studies are well tolerated by the patients and associated with a low risk of urinary tract infection. Scand J Urol Nephrol. 2001 Dec; 35: 459-62

101520 Logan, Y. T., Belgeri, M. T. Monotherapy versus combination drug therapy for the treatment of benign prostatic hyperplasia. Am J Geriatr Pharmacother. 2005 Jun; 3: 103-14

118660 Logie, J. W., Clifford, G. M., Farmer, R. D., Meesen, B. P. Lower urinary tract symptoms suggestive of benign prostatic obstruction--Triumph: the role of general practice databases. Eur Urol. 2001; 39 Suppl 3: 42-7

104160 Logie, J., Clifford, G. M., Farmer, R. D. Incidence, prevalence and management of lower urinary tract symptoms in men in the UK. BJU Int. 2005 Mar; 95: 557-62

115390 Loh, S. Y., Chin, C. M. A demographic profile of patients undergoing transurethral resection of the prostate for benign prostate hyperplasia and presenting in acute urinary retention. BJU Int. 2002 Apr; 89: 531-3

164480 Lojanapiwat, B., Soonthornpun, S., Wudhikarn, S. Lower pole caliceal stone clearance after ESWL: the effect of infundibulopelvic angle. J Med Assoc Thai. 1999 Sep; 82: 891-4

138750 Lopatkin, N. A., Martov, A. G., Gushchin, B. L. An endourologic approach to complete ureteropelvic junction and ureteral strictures. J Endourol. 2000 Nov; 14: 721-6

156460 Lopatkin, N., Sivkov, A., Schlafke, S., Funk, P., Medvedev, A. and Engelmann, U. Efficacy and safety of a combination of Sabal and Urtica extract in lower urinary tract symptoms--long-term follow-up of a placebo-controlled, double-blind, multicenter trial. Int Urol Nephrol. 2007; 39: 1137-46

102940 Lopatkin, N., Sivkov, A., Walther, C., Schlafke, S., Medvedev, A., Avdeichuk, J., Golubev, G., Melnik, K., Elenberger, N., Engelmann, U. Long-term efficacy and safety of a combination of sabal and urtica extract for lower urinary tract symptoms--a placebo-controlled, double-blind, multicenter trial. World J Urol. 2005 Jun; 23: 139-46

152230 Lopau, K., Spindler, K. and Wanner, C. Effects of pravastatin treatment on blood pressure regulation after renal transplantation. Kidney Blood Press Res. 2006; 29: 329-37

111160 Lopez, F. J., Arias, L., Chan, R., Clarke, D. E., Elworthy, T. R., Ford, A. P., Guzman, A., Jaime-Figueroa, S., Jasper, J. R., Morgans, D. J. , Jr., Padilla, F., Perez-Medrano, A., Quintero, C., Romero, M., Sandoval, L., Smith, S. A., Willia Synthesis, pharmacology and pharmacokinetics of 3-(4-aryl-piperazin-1-ylalkyl)-uracils as uroselective alpha1A-antagonists. Bioorg Med Chem Lett. 2003 Jun 2; 13: 1873-8

106580 Lopez, J. B., Sahabudin, R. M., Chin, L. P. Are plasma insulin-like growth factor I (IGF-I) and IGF-binding protein 3 (IGFBP-3) useful markers of prostate cancer?. Int J Biol Markers. 2004 Apr-Jun; 19: 164-7

119630 Lopez-Beltran, A., Artacho-Perula, E., Luque-Barona, R. J., Roldan-Villalobos, R. Nuclear volume estimates in prostatic atypical adenomatous hyperplasia. Anal Quant Cytol Histol. 2000 Dec; 22: 438-44

114330 Lorente, J. A., Arango, O., Bielsa, O., Cortadellas, R., Gelabert-Mas, A. Effect of antibiotic treatment on serum PSA and percent free PSA levels in patients with biochemical criteria for prostate biopsy and previous lower urinary tract infections. Int J Biol Markers. 2002 Apr-Jun; 17: 84-9

139610 Lorusso, V., Manzione, L., De Vita, F., Antimi, M., Selvaggi, F. P., De Lena, M. Gemcitabine plus cisplatin for advanced transitional cell carcinoma of the urinary tract: a phase II multicenter trial. J Urol. 2000 Jul; 164: 53-6

100340 Lou, Y. R., Miettinen, S., Kagechika, H., Gronemeyer, H., Tuohimaa, P. Retinoic acid via RARalpha inhibits the expression of 24-hydroxylase in human prostate stromal cells. Biochem Biophys Res Commun. 2005 Dec 30; 338: 1973-81

156420 Louis, S. N., Wang, L., Chow, L., Rezmann, L. A., Imamura, K., MacGregor, D. P., Casely, D., Catt, K. J., Frauman, A. G. and Louis, W. J. Appearance of angiotensin II expression in non-basal epithelial cells is an early feature of malignant change in human prostate. Cancer Detect Prev. 2007; 31: 391-5

165050 Lovaria, A., Nicolini, A., Meregaglia, D., Saccheri, S., Rivolta, R., Rampoldi, A., Rossi, P., Montanari, E. Interventional radiology in the treatment of urological vascular complications. Ann Urol (Paris). 1999; 33: 156-67

138430 Love, K. D., Chitale, S. V., Vohra, A. K., Ball, R. Y. Urethral stricture associated with malacoplakia: a case report and review of the literature. Urology. 2001 Jan; 57: 169

109200 Lovecchio, M., Maiorano, E., Vacca, R. A., Loverro, G., Fanelli, M., Resta, L., Stefanelli, S., Selvaggi, L., Marra, E., Perlino, E. beta 1C Integrin expression in human endometrial proliferative diseases. Am J Pathol. 2003 Dec; 163: 2543-53

115890 Lowe, F. C. Goals for benign prostatic hyperplasia therapy. Urology. 2002 Feb; 59: 2-Jan

116380 Lowe, F. C. Phytotherapy in the management of benign prostatic hyperplasia. Urology. 2001 Dec; 58: 71-6; discussion 76-7

104580 Lowe, F. C. Role of the newer alpha, -adrenergic-receptor antagonists in the treatment of benign prostatic hyperplasia-related lower urinary tract symptoms. Clin Ther. 2004 Nov; 26: 1701-13

103260 Lowe, F. C. Treatment of lower urinary tract symptoms suggestive of benign prostatic hyperplasia: sexual function. BJU Int. 2005 Jun; 95 Suppl 4: 8-Dec

102800 Lowe, F. C., Batista, J., Berges, R., Chartier-Kastler, E., Conti, G., Desgrandchamps, F., Dreikorn, K., O'Leary, M., Perez, M., Speakman, M., Trachtenberg, J., Tubaro, A., Meesen, B., Smets, L., Stoevelaar, H. Risk factors for disease progression in patients with lower urinary tract symptoms/benign prostatic hyperplasia (LUTS/BPH): a systematic analysis of expert opinion. Prostate Cancer Prostatic Dis. 2005; 8: 206-9

116320 Lowe, F. C., Fagelman, E. Phytotherapy in the treatment of benign prostatic hyperplasia. Curr Opin Urol. 2002 Jan; 12: 15-8

111560 Lowe, F. C., McConnell, J. D., Hudson, P. B., Romas, N. A., Boake, R., Lieber, M., Elhilali, M., Geller, J., Imperto-McGinely, J., Andriole, G. L., Bruskewitz, R. C., Walsh, P. C., Bartsch, G., Nacey, J. N., Shah, S., Pappas, F., Ko, A., Long-term 6-year experience with finasteride in patients with benign prostatic hyperplasia. Urology. 2003 Apr; 61: 791-6

161490 Lowe, F. C., Olson, P. J., Padley, R. J. Effects of terazosin therapy on blood pressure in men with benign prostatic hyperplasia concurrently treated with other antihypertensive medications. Urology. 1999 Jul; 54: 81-5

155700 Lowe, G. J., Canon, S. J. and Jayanthi, V. R. Laparoscopic reconstructive options for obstruction in children with duplex renal anomalies. BJU Int. 2008; 101: 227-30

165560 Lowenborg, E. K., Berg, U. B. Influence of serum albumin on renal function in nephrotic syndrome. Pediatr Nephrol. 1999 Jan; 13: 19-25

122630 Lu, Q. L., Abel, P., Mitchell, S., Foster, C., Lalani, E. N. Decreased HLA-A expression in prostate cancer is associated with normal allele dosage in the majority of cases. J Pathol. 2000 Feb; 190: 169-76

119090 Luboldt, H. J., Bex, A., Swoboda, A., Husing, J., Rubben, H. Early detection of prostate cancer in Germany: a study using digital rectal examination and 4.0 ng/ml prostate-specific antigen as cutoff. Eur Urol. 2001 Feb; 39: 131-7

139280 Lucanto, C., Bauer, S. B., Hyman, P. E., Flores, A. F., Di Lorenzo, C. Function of hollow viscera in children with constipation and voiding difficulties. Dig Dis Sci. 2000 Jul; 45: 1274-80

104270 Lucas, M. G., Stephenson, T. P., Nargund, V. Tamsulosin in the management of patients in acute urinary retention from benign prostatic hyperplasia. BJU Int. 2005 Feb; 95: 354-7

156600 Ludwig, C. D. Understanding benign prostatic hyperplasia (BPH). Medsurg Nurs. 2007; 16: 340-1

103490 Ludwig, M., Schneider, H., Lohmeyer, J., Ermert, L., Sziegoleit, A., Lommel, D., Weidner, W. Systemic aspergillosis with predominant genitourinary manifestations in an immunocompetent man: what we can learn from a disastrous follow-up. Infection. 2005 Apr; 33: 90-2

160520 Lukacs, B. Management of symptomatic BPH in France: who is treated and how?. Eur Urol. 1999; 36 Suppl 3: 14-20

122270 Lukacs, B., Grange, J. C., Comet, D. One-year follow-up of 2829 patients with moderate to severe lower urinary tract symptoms treated with alfuzosin in general practice according to IPSS and a health-related quality-of-life questionnaire. BPM Group in General Practice. Urology. 2000 Apr; 55: 540-6

122410 Lukacs, B., Grange, J. C., Comet, D., McCarthy, C. History of 7,093 patients with lower urinary tract symptoms related to benign prostatic hyperplasia treated with alfuzosin in general practice up to 3 years. Eur Urol. 2000 Feb; 37: 183-90

132520 Luke, P. P., Herz, D. B., Bellinger, M. F., Chakrabarti, P., Vivas, C. A., Scantlebury, V. P., Hakala, T. R., Jevnikar, A. M., Jain, A., Shapiro, R., Jordan, M. L. Long-term results of pediatric renal transplantation into a dysfunctional lower urinary tract. Transplantation. 2003 Dec 15; 76: 1578-82

160200 Lukkarinen, O., Lehtonen, T., Talja, M., Lundstedt, S., Tiitinen, J., Taari, K. Finasteride following balloon dilatation of the prostate. A double-blind, placebo-controlled, multicenter study. Ann Chir Gynaecol. 1999; 88: 299-303

165280 Lumerman, J. H., Hom, D., Eiley, D., Smith, A. D. Heightened suspicion and rapid evaluation with CT for early diagnosis of partial renal infarction. J Endourol. 1999 Apr; 13: 209-14

110900 Lund-Johansen, P., Kirby, R. S. Effect of doxazosin GITS on blood pressure in hypertensive and normotensive patients: a review of hypertension and BPH studies. Blood Press Suppl. 2003 May; 1: 13-May

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

117780 Luo, J., Duggan, D. J., Chen, Y., Sauvageot, J., Ewing, C. M., Bittner, M. L., Trent, J. M., Isaacs, W. B. Human prostate cancer and benign prostatic hyperplasia: molecular dissection by gene expression profiling. Cancer Res. 2001 Jun 15; 61: 4683-8

110100 Luo, J., Dunn, T. A., Ewing, C. M., Walsh, P. C., Isaacs, W. B. Decreased gene expression of steroid 5 alpha-reductase 2 in human prostate cancer: implications for finasteride therapy of prostate carcinoma. Prostate. 2003 Oct 1; 57: 134-9

115180 Luo, J., Dunn, T., Ewing, C., Sauvageot, J., Chen, Y., Trent, J., Isaacs, W. Gene expression signature of benign prostatic hyperplasia revealed by cDNA microarray analysis. Prostate. 2002 May 15; 51: 189-200

122370 Lwaleed, B. A., Francis, J. L., Chisholm, M. Urinary tissue factor levels in patients with bladder and prostate cancer. Eur J Surg Oncol. 2000 Feb; 26: 44-9

120150 Lynch, W. J., Graber, S. F. Transurethral microwave thermotherapy: symptom relief v urodynamic changes. J Endourol. 2000 Oct; 14: 657-60

136850 Lyseng-Williamson, K. A., Jarvis, B., Wagstaff, A. J. Tamsulosin: an update of its role in the management of lower urinary tract symptoms. Drugs. 2002; 62: 135-67

165260 Ma, J., Qu, W., Scarborough, P. E., Tomer, K. B., Moomaw, C. R., Maronpot, R., Davis, L. S., Breyer, M. D., Zeldin, D. C. Molecular cloning, enzymatic characterization, developmental expression, and cellular localization of a mouse cytochrome P450 highly expressed in kidney. J Biol Chem. 1999 Jun 18; 274: 17777-88

104250 Ma, Q. J., Gu, X. Q., Cao, X., Zhao, J., Kong, X. B., Li, Y. X., Cai, S. Y. Effect of beta radiation on TGF-beta1 and bFGF expression in hyperplastic prostatic tissues. Asian J Androl. 2005 Mar; 7: 49-54

112430 Maake, C., Auf der Maur, F., Jovanovic, K., Reinecke, M., Hauri, D., John, H. Occurrence and localization of uroguanylin in the aging human prostate. Histochem Cell Biol. 2003 Jan; 119: 69-76

160770 MacDiarmid, S. A., Emery, R. T., Ferguson, S. F., McGuirt-Franklin, R., McIntyre, W. J., Johnson, D. E. A randomized double-blind study assessing 4 versus 8 mg. doxazosin for benign prostatic hyperplasia. J Urol. 1999 Nov; 162: 1629-32

161190 MacDonagh, R., Pearcy, R. Quality-of-life aspects in urology - benign prostatic hyperplasia. World J Urol. 1999 Aug; 17: 199-204

110230 MacDonald, D., McNicholas, T. A. Drug treatments for lower urinary tract symptoms secondary to bladder outflow obstruction: focus on quality of life. Drugs. 2003; 63: 1947-62

121940 MacDonald, R., Ishani, A., Rutks, I., Wilt, T. J. A systematic review of Cernilton for the treatment of benign prostatic hyperplasia. BJU Int. 2000 May; 85: 836-41

100720 MacDonald, R., Wilt, T. J. Alfuzosin for treatment of lower urinary tract symptoms compatible with benign prostatic hyperplasia: a systematic review of efficacy and adverse effects. Urology. 2005 Oct; 66: 780-8

104780 MacDonald, R., Wilt, T. J., Howe, R. W. Doxazosin for treating lower urinary tract symptoms compatible with benign prostatic obstruction: a systematic review of efficacy and adverse effects. BJU Int. 2004 Dec; 94: 1263-70

113600 Machino, R., Kakizaki, H., Ameda, K., Shibata, T., Tanaka, H., Matsuura, S., Koyanagi, T. Detrusor instability with equivocal obstruction: A predictor of unfavorable symptomatic outcomes after transurethral prostatectomy. Neurourol Urodyn. 2002; 21: 444-9

121110 Machtens, S., Schultheiss, D., Kuczyk, M., Truss, M. C., Jonas, U. The history of endocrine therapy of benign and malignant diseases of the prostate. World J Urol. 2000 Jun; 18: 222-6

131380 Mack, D. P., Moussa, M., Cook, A., Izawa, J. I. Metastatic Merkel cell tumor to the prostate and bladder. Urology. 2004 Jul; 64: 156-8

128500 Macneily, A. E., Morrell, J., Secord, S. Lower urinary tract reconstruction for spina bifida -- does it improve health related quality of life?. J Urol. 2005 Oct; 174: 1637-43; discussion 1643

120360 Madaan, S., Abel, P. D., Chaudhary, K. S., Hewitt, R., Stott, M. A., Stamp, G. W., Lalani, E. N. Cytoplasmic induction and over-expression of cyclooxygenase-2 in human prostate cancer: implications for prevention and treatment. BJU Int. 2000 Oct; 86: 736-41

126620 Madeb, R., Dockery, K. F., Whaley, K., O'Brien, J., Erturk, E. Paraffinoma of the urinary bladder. Int J Urol. 2006 Mar; 13: 299-300

139540 Madersbacher, S. Prevalence of lower urinary tract symptoms and urinary incontinence in the elderly: recent data from Austria. Wien Klin Wochenschr. 2000 May 5; 112: 379-80

160950 Madersbacher, S. This month in investigative urology. The chimpanzee as a model of human benign prostatic hyperplasia. J Urol. 1999 Oct; 162: 1245

105610 Madersbacher, S., Alivizatos, G., Nordling, J., Sanz, C. R., Emberton, M., de la Rosette, J. J. EAU 2004 guidelines on assessment, therapy and follow-up of men with lower urinary tract symptoms suggestive of benign prostatic obstruction (BPH guidelines). Eur Urol. 2004 Nov; 46: 547-54

156680 Madersbacher, S., Berger, I., Ponholzer, A. and Marszalek, M. Plant extracts: sense or nonsense?. Curr Opin Urol. 2008; 18: 16-20

119080 Madersbacher, S., Haidinger, G., Struhal, G. Management of lower urinary tract symptoms of elderly men in Austria. Eur Urol. 2001 Feb; 39: 145-50

113180 Madersbacher, S., Schatzl, G., Bieglmayer, C., Reiter, W. J., Gassner, C., Berger, P., Zidek, T., Marberger, M. Impact of radical prostatectomy and TURP on the hypothalamic-pituitary-gonadal hormone axis. Urology. 2002 Nov; 60: 869-74

121760 Madersbacher, S., Schatzl, G., Djavan, B., Stulnig, T., Marberger, M. Long-term outcome of transrectal high- intensity focused ultrasound therapy for benign prostatic hyperplasia. Eur Urol. 2000 Jun; 37: 687-94

110120 Madigan, M. P., Gao, Y. T., Deng, J., Pfeiffer, R. M., Chang, B. L., Zheng, S., Meyers, D. A., Stanczyk, F. Z., Xu, J., Hsing, A. W. CYP17 polymorphisms in relation to risks of prostate cancer and benign prostatic hyperplasia: a population-based study in China. Int J Cancer. 2003 Nov 1; 107: 271-5

123230 Maggi, M., Crescioli, C., Morelli, A., Colli, E., Adorini, L. Pre-clinical evidence and clinical translation of benign prostatic hyperplasia treatment by the vitamin D receptor agonist BXL-628 (Elocalcitol). J Endocrinol Invest. 2006 Jul-Aug; 29: 665-74

160650 Magklara, A., Scorilas, A., Catalona, W. J., Diamandis, E. P. The combination of human glandular kallikrein and free prostate-specific antigen (PSA) enhances discrimination between prostate cancer and benign prostatic hyperplasia in patients with moderately increased total PSA. Clin Chem. 1999 Nov; 45: 1960-6

150100 Magri, V., Parazzini, F. and Chiaffarino, F. Survey on the Italian outpatient urologists regarding the management of benign prostatic hyperplasia. Arch Ital Urol Androl. 2006; 78: 11-4

156900 Mahawong, P., Chaiyaprasithi, B., Soontrapa, S. and Tappayuthapijarn, P. A role of intravesical capsaicin instillation in benign prostatic hyperplasia with overactive bladder symptoms: the first reported study in the literature. J Med Assoc Thai. 2007; 90: 2301-9

164200 Maher, C. F., Dwyer, P. L., Carey, M. P., Moran, P. A. Colposuspension or sling for low urethral pressure stress incontinence?. Int Urogynecol J Pelvic Floor Dysfunct. 1999; 10: 384-9

137270 Mahmoud, K. M., Sobh, M. A., El-Agroudy, A. E., Mostafa, F. E., Baz, M. E., Shokeir, A. A., Ghoneim, M. A. Impact of schistosomiasis on patient and graft outcome after renal transplantation: 10 years' follow-up. Nephrol Dial Transplant. 2001 Nov; 16: 2214-21

154530 Mai, K. T., Burns, B. F., Stinson, W. A. and Morash, C. The 3-dimensional structure of isolated and small foci of prostatic adenocarcinoma: the morphologic relationship between prostatic adenocarcinoma and prostatic intraepithelial neoplasia. Appl Immunohistochem Mol Morphol. 2007; 15: 50-5

109420 Mail, K. T., Mokhtar, G., Burns, B. F., Perkins, D. G., Yazdi, H. M., Stinson, W. A. A simple technique for calculation of the volume of prostatic adenocarcinomas in radical prostatectomy specimens. Pathol Res Pract. 2003; 199: 599-604

117450 Maillard, M., Cadot, B., Ball, R. Y., Sethia, K., Edwards, D. R., Perbal, B., Tatoud, R. Differential expression of the ccn3 (nov) proto-oncogene in human prostate cell lines and tissues. Mol Pathol. 2001 Aug; 54: 275-80

161350 Mairinger, T., Mikuz, G., Gschwendtner, A. Nuclear chromatin texture analysis of nonmalignant tissue can detect adjacent prostatic adenocarcinoma. Prostate. 1999 Sep 15; 41: 12-9

128220 Majoros, A., Bach, D., Keszthelyi, A., Hamvas, A., Romics, I. Urinary incontinence and voiding dysfunction after radical retropubic prostatectomy (prospective urodynamic study). Neurourol Urodyn. 2006; 25: 7-Feb

102780 Makridakis, N., Reichardt, J. K. Pharmacogenetic analysis of human steroid 5 alpha reductase type II: comparison of finasteride and dutasteride. J Mol Endocrinol. 2005 Jun; 34: 617-23

121850 Malek, R. S., Kuntzman, R. S., Barrett, D. M. High power potassium-titanyl-phosphate laser vaporization prostatectomy. J Urol. 2000 Jun; 163: 1730-3

101300 Malek, R. S., Kuntzman, R. S., Barrett, D. M. Photoselective potassium-titanyl-phosphate laser vaporization of the benign obstructive prostate: observations on long-term outcomes. J Urol. 2005 Oct; 174: 1344-8

117870 Malkowicz, S. B., McKenna, W. G., Vaughn, D. J., Wan, X. S., Propert, K. J., Rockwell, K., Marks, S. H., Wein, A. J., Kennedy, A. R. Effects of Bowman-Birk inhibitor concentrate (BBIC) in patients with benign prostatic hyperplasia. Prostate. 2001 Jun 15; 48: 16-28

104650 Maloney-Monaghan, C., Cafiero, M. Male bladder control problems: a guide to assessment. Ostomy Wound Manage. 2004 Dec; 50: 42-8

154290 Malyszko, J., Malyszko, J. S., Kozminski, P., Pawlak, K. and Mysliwiec, M. Elevated resistin is related to inflammation and residual renal function in haemodialysed patients. Nephrology (Carlton). 2007; 12: 246-53

114090 Mamalakis, G., Kafatos, A., Kalogeropoulos, N., Andrikopoulos, N., Daskalopulos, G., Kranidis, A. Prostate cancer vs hyperplasia: relationships with prostatic and adipose tissue fatty acid composition. Prostaglandins Leukot Essent Fatty Acids. 2002 May-Jun; 66: 467-77

126220 Mambrini, A., Fiorentini, G., Zamagni, D., Muttini, M., Pennucci, C., Caudana, R., Cantore, M. Intra-arterial chemiotherapy for invasive bladder cancer. J Exp Clin Cancer Res. 2003 Dec; 22: 21-3

101580 Mammi, C., Frajese, G. V., Vespasiani, G., Mariani, S., Gnessi, L., Farini, D., Fabbri, A., Frajese, G., Moretti, C. PAC1-R null isoform expression in human prostate cancer tissue. Prostate. 2006 Apr 1; 66: 514-21

151400 Managadze, M. and Tchanturaia, Z. Trabeculation of urinary bladder by ultrasound in patients with benign prostatic hyperplasia. Georgian Med News. 2006; : 16-8

126600 Manatt, S., Campbell, J. B., Ramji, F., Kuhn, A., Frimberger, D. Inguinal herniation of the bladder in an infant. Can J Urol. 2006 Apr; 13: 3057-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

108720 Mancini, M., Cisternino, A., Tavolini, I. M., Dal Moro, F., Bassi, P. Predictive medicine in non-malignant urological disorders. World J Urol. 2004 Feb; 21: 369-76

114740 Manetti, F., Corelli, F., Strappaghetti, G., Botta, M. Arylpiperazines with affinity toward alpha(1)-adrenergic receptors. Curr Med Chem. 2002 Jul; 9: 1303-21

137930 Manfredi, R., Nanetti, A., Ferri, M., Chiodo, F. Enterobacter spp. infections complicating the course of HIV disease. J Chemother. 2001 Apr; 13: 195-201

138630 Manfredi, R., Nanetti, A., Valentini, R., Chiodo, F. Acinetobacter infections in patients with human immunodeficiency virus infection: microbiological and clinical epidemiology. Chemotherapy. 2001 Jan-Feb; 47: 19-28

108810 Manikandan, R., Srirangam, S. J., O'Reilly, P. H., Collins, G. N. Management of acute urinary retention secondary to benign prostatic hyperplasia in the UK: a national survey. BJU Int. 2004 Jan; 93: 84-8

140380 Mann, R. D., Biswas, P., Freemantle, S., Pearce, G., Wilton, L. The pharmacovigilance of tamsulosin: event data on 12484 patients. BJU Int. 2000 Mar; 85: 446-50

115820 Mansoor, G. A., Tendler, B. E. Stroke associated with alpha blocker therapy for benign prostatic hypertrophy. J Natl Med Assoc. 2002 Jan; 94: 4-Jan

115620 Manyak, M. J., Ackerman, S. J., Blute, M. L., Rein, A. L., Buesterien, K., Sullivan, E. M., Tanio, C. P., Strauss, M. J. Cost effectiveness of treatment for benign prostatic hyperplasia: an economic model for comparison of medical, minimally invasive, and surgical therapy. J Endourol. 2002 Feb; 16: 51-6

136060 Manyak, M. J., Santangelo, K., Hahn, J., Kaufman, R., Carleton, T., Hua, X. C., Walsh, R. J. Virtual reality surgical simulation for lower urinary tract endoscopy and procedures. J Endourol. 2002 Apr; 16: 185-90

165590 Manzano, V. M., Puyol, M. R., Puyol, D. R., Cazana, F. J. Tretinoin prevents age-related renal changes and stimulates antioxidant defenses in cultured renal mesangial cells. J Pharmacol Exp Ther. 1999 Apr; 289: 123-32

123220 Marberger, M. Drug Insight: 5alpha-reductase inhibitors for the treatment of benign prostatic hyperplasia. Nat Clin Pract Urol. 2006 Sep; 3: 495-503

120050 Marberger, M. J., Andersen, J. T., Nickel, J. C., Malice, M. P., Gabriel, M., Pappas, F., Meehan, A., Stoner, E., Waldstreicher, J. Prostate volume and serum prostate-specific antigen as predictors of acute urinary retention. Combined experience from three large multinational placebo-controlled trials. Eur Urol. 2000 Nov; 38: 563-8

107860 Marberger, M., Harkaway, R., de la Rosette, J. Optimising the medical management of benign prostatic hyperplasia. Eur Urol. 2004 Apr; 45: 411-9

100110 Marberger, M., Roehrborn, C. G., Marks, L. S., Wilson, T., Rittmaster, R. S. Relationship among serum testosterone, sexual function, and response to treatment in men receiving dutasteride for benign prostatic hyperplasia. J Clin Endocrinol Metab. 2006 Apr; 91: 1323-8

121320 Marcelli, M., Shao, T. C., Li, X., Yin, H., Marani, M., Denner, L., Teng, B., Cunningham, G. R. Induction of apoptosis in BPH stromal cells by adenoviral-mediated overexpression of caspase-7. J Urol. 2000 Aug; 164: 518-25

134120 Marchesi, F., Monestiroli, S. V., Capillo, M., Gobbi, A., Minucci, S., Pelicci, P. G., Scanziani, E. Eosinophilic crystals as a distinctive morphologic feature of a hyaline droplet nephropathy in a mouse model of acute myelogenous leukaemia. J Vet Med A Physiol Pathol Clin Med. 2003 Mar; 50: 103-7

134180 Marcus, K. J., Dutton, S. C., Barnes, P., Coleman, C. N., Pomeroy, S. L., Goumnerova, L., Billett, A. L., Kieran, M., Tarbell, N. J. A phase I trial of etanidazole and hyperfractionated radiotherapy in children with diffuse brainstem glioma. Int J Radiat Oncol Biol Phys. 2003 Apr 1; 55: 1182-5

130250 Marella, V. K., Hakimian, O., Wise, G. J., Silver, D. A. Pelvic actinomycosis. Urologic perspective. Int Braz J Urol. 2004 Sep-Oct; 30: 367-76

122710 Margan, S. H., Handelsman, D. J., Mann, S., Russell, P., Rogers, J., Khadra, M. H., Dong, Q. Quality of nucleic acids extracted from fresh prostatic tissue obtained from TURP procedures. J Urol. 2000 Feb; 163: 613-5

155890 Margel, D., Lifshitz, D., Brown, N., Lask, D., Livne, P. M. and Tal, R. Predictors of nocturia quality of life before and shortly after prostatectomy. Urology. 2007; 70: 493-7

110400 Maria, G., Brisinda, G., Civello, I. M., Bentivoglio, A. R., Sganga, G., Albanese, A. Relief by botulinum toxin of voiding dysfunction due to benign prostatic hyperplasia: results of a randomized, placebo-controlled study. Urology. 2003 Aug; 62: 259-64; discussion 264-5

103990 Maria, G., Cadeddu, F., Brisinda, D., Brandara, F., Brisinda, G. Management of bladder, prostatic and pelvic floor disorders with botulinum neurotoxin. Curr Med Chem. 2005; 12: 247-65

121610 Mariano, A., Di Carlo, A., Santonastaso, C., Oliva, A., D'Armiento, M., Macchia, V. Expression of Lewis carbohydrate antigens and chromogranin A in human prostatic cancer. Int J Oncol. 2000 Jul; 17: 167-71

115060 Mariano, M. B., Graziottin, T. M., Tefilli, M. V. Laparoscopic prostatectomy with vascular control for benign prostatic hyperplasia. J Urol. 2002 Jun; 167: 2528-9

154720 Mariappan, P., Brown, D. J. and McNeill, A. S. Intravesical prostatic protrusion is better than prostate volume in predicting the outcome of trial without catheter in white men presenting with acute urinary retention: a prospective clinical study. J Urol. 2007; 178: 573-7; discussion 577

125410 Mariappan, P., Chong, W. L. Prevalence and correlations of lower urinary tract symptoms, erectile dysfunction and incontinence in men from a multiethnic Asian population: Results of a regional population-based survey and comparison with industrialized nations. BJU Int. 2006 Dec; 98: 1264-8

138190 Marinkovic, S. P., Badlani, G. H. Imaging of the lower urinary tract in adults. J Endourol. 2001 Feb; 15: 75-86

119270 Marinkovic, S., Badlani, G. Voiding and sexual dysfunction after cerebrovascular accidents. J Urol. 2001 Feb; 165: 359-70

111730 Marker, P. C., Donjacour, A. A., Dahiya, R., Cunha, G. R. Hormonal, cellular, and molecular control of prostatic development. Dev Biol. 2003 Jan 15; 253: 165-74

118310 Marker, P. C., Stephan, J. P., Lee, J., Bald, L., Mather, J. P., Cunha, G. R. fucosyltransferase1 and H-type complex carbohydrates modulate epithelial cell proliferation during prostatic branching morphogenesis. Dev Biol. 2001 May 1; 233: 95-108

153630 Marklund-Bau, H., Edell-Gustafsson, U. and Spangberg, A. Bothersome urinary symptoms and disease-specific quality of life in patients with benign prostatic obstruction. Scand J Urol Nephrol. 2007; 41: 32-41

108980 Markowitz, J. S., Donovan, J. L., Devane, C. L., Taylor, R. M., Ruan, Y., Wang, J. S., Chavin, K. D. Multiple doses of saw palmetto (Serenoa repens) did not alter cytochrome P450 2D6 and 3A4 activity in normal volunteers. Clin Pharmacol Ther. 2003 Dec; 74: 536-42

109360 Marks, L. S. Treatment of men with minimally symptomatic benign prostatic hyperplasia--PRO: the argument in favor. Urology. 2003 Nov; 62: 781-3

151060 Marks, L. S. Use of 5alpha-reductase inhibitors to prevent benign prostatic hyperplasia disease. Curr Urol Rep. 2006; 7: 293-303

160390 Marks, L. S., Ettekal, B., Cohen, M. S., Macairan, M. L., Vidal, J. Use of a shape-memory alloy (nitinol) in a removable prostate stent. Tech Urol. 1999 Dec; 5: 226-30

118020 Marks, L. S., Hess, D. L., Dorey, F. J., Luz Macairan, M., Cruz Santos, P. B., Tyler, V. E. Tissue effects of saw palmetto and finasteride: use of biopsy cores for in situ quantification of prostatic androgens. Urology. 2001 May; 57: 999-1005

119520 Marks, L. S., Partin, A. W., Epstein, J. I., Tyler, V. E., Simon, I., Macairan, M. L., Chan, T. L., Dorey, F. J., Garris, J. B., Veltri, R. W., Santos, P. B., Stonebrook, K. A., deKernion, J. B. Effects of a saw palmetto herbal blend in men with symptomatic benign prostatic hyperplasia. J Urol. 2000 May; 163: 1451-6

102730 Marks, L. S., Roehrborn, C. G., Andriole, G. L. Prevention of benign prostatic hyperplasia disease. J Urol. 2006 Oct; 176: 1299-306

109330 Marks, L. S., Roehrborn, C. G., Gittelman, M., Kim, D., Forrest, J., Jacobs, S. First dose efficacy of alfuzosin once daily in men with symptomatic benign prostatic hyperplasia. Urology. 2003 Nov; 62: 888-93

153770 Marks, L. S., Roehrborn, C. G., Wolford, E. and Wilson, T. H. The effect of dutasteride on the peripheral and transition zones of the prostate and the value of the transition zone index in predicting treatment response. J Urol. 2007; 177: 1408-13

116730 Marquis, P., Marrel, A. Reproducibility and clinical and concurrent validity of the MSF-4: a four-item male sexual function questionnaire for patients with benign prostatic hyperplasia. Value Health. 2001 Jul-Aug; 4: 335-43

117270 Martell, N., Luque, M. Doxazosin added to single-drug therapy in hypertensive patients with benign prostatic hypertrophy. J Clin Hypertens (Greenwich). 2001 Jul-Aug; 3: 218-23

112100 Martin, B., Cheli, C., Pollard, S., Sullivan, J., Goodman, J., Kokatnur, M., Ward, M., Martin, L., Mercante, D., Rayford, W. Similar age-specific PSA, complexed PSA, and percent cPSA levels among African-American and white men of southern Louisiana. Prostate-specific antigen. Urology. 2003 Feb; 61: 375-9

107060 Martin, C., Ross, M., Chapman, K. E., Andrew, R., Bollina, P., Seckl, J. R., Habib, F. K. CYP7B generates a selective estrogen receptor beta agonist in human prostate. J Clin Endocrinol Metab. 2004 Jun; 89: 2928-35

103350 Martin, D. J., Mulhall, J. P. Enlarging the scope of managing benign prostatic hyperplasia: addressing sexual function and quality of life. Int J Clin Pract. 2005 May; 59: 579-90

121270 Martin, R., Fraile, B., Peinado, F., Arenas, M. I., Elices, M., Alonso, L., Paniagua, R., Martin, J. J., Santamaria, L. Immunohistochemical localization of protein gene product 9.5, ubiquitin, and neuropeptide Y immunoreactivities in epithelial and neuroendocrine cells from normal and hyperplastic human prostate. J Histochem Cytochem. 2000 Aug; 48: 1121-30

114120 Martinez, M., Espana, F., Royo, M., Alapont, J. M., Navarro, S., Estelles, A., Aznar, J., Vera, C. D., Jimenez-Cruz, J. F. The proportion of prostate-specific antigen (PSA) complexed to alpha(1)-antichymotrypsin improves the discrimination between prostate cancer and benign prostatic hyperplasia in men with a total PSA of 10 to 30 microg/L. Clin Chem. 2002 Aug; 48: 1251-6

121540 Martinez, M., Espana, F., Royo, M., Vera, C. D., Estelles, A., Jimenez-Cruz, J. F., Medina, P., Aznar, J. Prostate-specific antigen complexed to alpha(1)-antichymotrypsin in the early detection of prostate cancer. Eur Urol. 2000 Jul; 38: 85-90

150170 Martinez-Borges, A. R. Turbulent urinary flow in the urethra could be a causal factor for benign prostatic hyperplasia. Med Hypotheses. 2006; 67: 871-5

122340 Martinez-Pineiro, L., Tabernero, A., Contreras, T., Madero, R., Lozano, D., Lopez-Tello, J., Alonso-Dorrego, J. M., Picazo, M. L., Gonzalez Gancedo, P., Martinez-Pineiro, J. A., de La Pena, J. J. Determination of the percentage of free prostate-specific antigen helps to avoid unnecessary biopsies in men with normal rectal examinations and total prostate-specific antigen of 4-10 ng/ml. Eur Urol. 2000 Mar; 37: 289-96

105440 Martin-Morales, A., Rodriguez-Vela, L., Meijide, F., Arrondo, J. L., Cortada, J. Specific aspects of erectile function in urology/andrology. Int J Impot Res. 2004 Oct; 16 Suppl 2: S18-25

129260 Martino, P., Martino, D., Palazzo, S., Altomare, D. F., Garofalo, L., Battaglia, M., Selvaggi, F. P. Incidental discovery of ano-rectal disease during transrectal ultrasound performed for prostatic disease. Arch Ital Urol Androl. 2005 Mar; 77: 37-9

151520 Maruyama, O., Kawachi, Y., Hanazawa, K., Koizumi, K., Yamashita, R., Sugimura, S., Honda, S., Sugiyama, Y., Saitoh, T. and Noto, K. Naftopidil monotherapy vs naftopidil and an anticholinergic agent combined therapy for storage symptoms associated with benign prostatic hyperplasia: A prospective randomized controlled study. Int J Urol. 2006; 13: 1280-5

120030 Maruyama, S., Fujimoto, N., Asano, K., Ito, A., Usui, T. Expression of estrogen receptor alpha and beta mRNAs in prostate cancers treated with leuprorelin acetate. Eur Urol. 2000 Nov; 38: 635-9

136450 Masood, J., Lane, T., Koye, B., Vandal, M. T., Barua, J. M., Hill, J. T. Renal cell carcinoma: incidental detection during routine ultrasonography in men presenting with lower urinary tract symptoms. BJU Int. 2001 Nov; 88: 671-4

104770 Masood, S., Djaladat, H., Kouriefs, C., Keen, M., Palmer, J. H. The 12-year outcome analysis of an endourethral wallstent for treating benign prostatic hyperplasia. BJU Int. 2004 Dec; 94: 1271-4

135060 Masuda, A., Tsujii, T., Kojima, M., Sakamoto, S., Moriguchi, H., Honda, M., Yoshida, K. Primary mucosa-associated lymphoid tissue (MALT) lymphoma arising from the male urethra. A case report and review of the literature. Pathol Res Pract. 2002; 198: 571-5

155670 Masumori, N., Hashimoto, J., Itoh, N., Tsukamoto, T. and Group, T. S. Short-term efficacy and long-term compliance/treatment failure of the alpha1 blocker naftopidil for patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Scand J Urol Nephrol. 2007; 41: 422-9

129560 Masumori, N., Homma, D., Tsukamoto, T. Web-based research of lower urinary tract symptoms that affect quality of life in elderly Japanese men: analysis using a structural equation model. BJU Int. 2005 May; 95: 1013-22

133380 Masumori, N., Tanaka, Y., Takahashi, A., Itoh, N., Ogura, H., Furuya, S., Tsukamoto, T. Lower urinary tract symptoms of men seeking medical care--comparison of symptoms found in the clinical setting and in a community study. Urology. 2003 Aug; 62: 266-72

133940 Masumori, N., Tsukamoto, T., Rhodes, T., Girman, C. J. Natural history of lower urinary tract symptoms in men--result of a longitudinal community-based study in Japan. Urology. 2003 May; 61: 956-60

155180 Masuo, K., Katsuya, T., Sugimoto, K., Kawaguchi, H., Rakugi, H., Ogihara, T. and Tuck, M. L. High plasma norepinephrine levels associated with beta2-adrenoceptor polymorphisms predict future renal damage in nonobese normotensive individuals. Hypertens Res. 2007; 30: 503-11

108020 Mathur, S. K., Gupta, S., Marwah, N., Narula, A., Singh, S., Arora, B. Significance of mucin stain in differentiating benign and malignant lesions of prostate. Indian J Pathol Microbiol. 2003 Oct; 46: 593-5

152380 Matlaga, B. R., Miller, N. L. and Lingeman, J. E. Holmium laser treatment of benign prostatic hyperplasia: an update. Curr Opin Urol. 2007; 17: 27-31

153030 Matlaga, B. R., Miller, N. L., Terry, C., Kim, S. C., Kuo, R. L., Coe, F. L., Evan, A. P. and Lingeman, J. E. The pathogenesis of calyceal diverticular calculi. Urol Res. 2007; 35: 35-40

127690 Matsubara, A., Yasumoto, H., Mutaguchi, K., Mita, K., Teishima, J., Seki, M., Kajiwara, M., Kato, M., Shigeta, M., Usui, T. Impact of radical perineal prostatectomy on urinary continence and quality of life: a longitudinal study of Japanese patients. Int J Urol. 2005 Nov; 12: 953-8

125750 Matsubara, A., Yasumoto, H., Teishima, J., Seki, M., Mita, K., Hasegawa, Y., Yoshino, T., Kato, M., Usui, T. Lower urinary tract symptoms and risk of prostate cancer in Japanese men. Int J Urol. 2006 Aug; 13: 1098-102

150230 Matsuda, T., Fujime, M. and Suda, K. Relationship between the prostatic tissue components and natural history of benign prostatic hyperplasia. Anal Quant Cytol Histol. 2006; 28: 121-4

111450 Matsui, H., Suzuki, K., Hasumi, M., Koike, H., Okugi, H., Nakazato, H., Yamanaka, H. Gene expression profiles of human BPH (II): Optimization of laser-capture microdissection and utilization of cDNA microarray. Anticancer Res. 2003 Jan-Feb; 23: 195-200

134840 Matsui, Y., Ohara, H., Ichioka, K., Terada, N., Yoshimura, K., Terai, A., Arai, Y. Retroperitoneoscopy-assisted total nephroureterectomy for upper urinary tract transitional cell carcinoma. Urology. 2002 Dec; 60: 1010-5

115300 Matsumoto, A. M., Tenover, L., McClung, M., Mobley, D., Geller, J., Sullivan, M., Grayhack, J., Wessells, H., Kadmon, D., Flanagan, M., Zhang, G. K., Schmidt, J., Taylor, A. M., Lee, M., Waldstreicher, J. The long-term effect of specific type II 5alpha-reductase inhibition with finasteride on bone mineral density in men: results of a 4-year placebo controlled trial. J Urol. 2002 May; 167: 2105-8

151530 Matsumoto, K., Egawa, S., Satoh, T., Kuruma, H., Yanagisawa, N. and Baba, S. Computer simulated additional deep apical biopsy enhances cancer detection in palpably benign prostate gland. Int J Urol. 2006; 13: 1290-5

108900 Matsumoto, K., Suzuki, K., Koike, H., Hasumi, M., Matsui, H., Okugi, H., Shibata, Y., Ito, K., Yamanaka, H. Placental growth factor gene expression in human prostate cancer and benign prostate hyperplasia. Anticancer Res. 2003 Sep-Oct; 23: 3767-73

122730 Matsuoka, K., Iida, S., Tomiyasu, K., Shimada, A., Noda, S. Transurethral holmium laser resection of the prostate. J Urol. 2000 Feb; 163: 515-8

119650 Matsuyama, H., Baba, Y., Yamakawa, G., Yamamoto, N., Naito, K. Diagnostic value of prostate-specific antigen-related parameters in discriminating prostate cancer. Int J Urol. 2000 Nov; 7: 409-14

154600 Matsuyama, M., Hayama, T., Funao, K., Kawahito, Y., Sano, H., Takemoto, Y., Nakatani, T. and Yoshimura, R. Overexpression of cysteinyl LT1 receptor in prostate cancer and CysLT1R antagonist inhibits prostate cancer cell growth through apoptosis. Oncol Rep. 2007; 18: 99-104

108060 Matsuyama, M., Yoshimura, R., Mitsuhashi, M., Hase, T., Tsuchida, K., Takemoto, Y., Kawahito, Y., Sano, H., Nakatani, T. Expression of lipoxygenase in human prostate cancer and growth reduction by its inhibitors. Int J Oncol. 2004 Apr; 24: 821-7

121810 Mattfeldt, T., Gottfried, H., Schmidt, V., Kestler, H. A. Classification of spatial textures in benign and cancerous glandular tissues by stereology and stochastic geometry using artificial neural networks. J Microsc. 2000 May; 198 (Pt 2): 143-58

133500 Matthiesen, T. B., Rittig, S., Djurhuus, J. C. Functional bladder capacity and urodynamics in males with nocturia. APMIS Suppl. 2003; : 59-65

161800 Matthiesen, T. B., Rittig, S., Mortensen, J. T., Djurhuus, J. C. Nocturia and polyuria in men referred with lower urinary tract symptoms, assessed using a 7-day frequency-volume chart. BJU Int. 1999 Jun; 83: 1017-22

153010 Mattiasson, A., Wagrell, L., Schelin, S., Nordling, J., Richthoff, J., Magnusson, B., Schain, M., Larson, T., Boyle, E., Duelund-Jacobsen, J., Kroyer, K. and Ageheim, H. Five-year follow-up of feedback microwave thermotherapy versus TURP for clinical BPH: a prospective randomized multicenter study. Urology. 2007; 69: 91-6; discussion 96-7

126590 Matzkin, H., Keren-Paz, G., Mabjeesh, N. J., Chen, J. Combination therapy-permanent interstitial brachytherapy and external beam radiotherapy for patients with localized prostate cancer. Acta Chir Iugosl. 2005; 52: 31-6

138230 Mayher, B. E., Guyton, J. L., Gingrich, J. R. Impact of urethral injury management on the treatment and outcome of concurrent pelvic fractures. Urology. 2001 Mar; 57: 439-42

138240 Maynart, M., Lievre, L., Sow, P. S., Kony, S., Gueye, N. F., Bassene, E., Metro, A., Ndoye, I., Ba, D. S., Coulaud, J. P., Costagliola, D. Primary prevention with cotrimoxazole for HIV-1-infected adults: results of the pilot study in Dakar, Senegal. J Acquir Immune Defic Syndr. 2001 Feb 1; 26: 130-6

120220 Mazzucchelli, R., Colanzi, P., Pomante, R., Muzzonigro, G., Montironi, R. Prostate tissue and serum markers. Adv Clin Path. 2000 Jul; 4: 111-20

140520 McAllister, W. J., Absalom, M. J., Mir, K., Shivde, S., Anson, K., Kirby, R. S., Lawrence, W. T., Paterson, P. J., Watson, G. M., Fowler, C. G. Does endoscopic laser ablation of the prostate stand the test of time? Five-year results from a multicentre randomized controlled trial of endoscopic laser ablation against transurethral resection of the prostate. BJU Int. 2000 Mar; 85: 437-9

107500 McAllister, W. J., Gilling, P. J. Vaporization of the prostate. Curr Opin Urol. 2004 Jan; 14: 31-4

112220 McAllister, W. J., Karim, O., Plail, R. O., Samra, D. R., Steggall, M. J., Yang, Q., Fowler, C. G. Transurethral electrovaporization of the prostate: is it any better than conventional transurethral resection of the prostate?. BJU Int. 2003 Feb; 91: 211-4

121600 McCabe, N. P., Angwafo, F. F., 3rd, Zaher, A., Selman, S. H., Kouinche, A., Jankun, J. Expression of soluble urokinase plasminogen activator receptor may be related to outcome in prostate cancer patients. Oncol Rep. 2000 Jul-Aug; 7: 879-82

119700 McCarty, M. F. Up-regulation of hepatic IGFBP-1 production as a strategy for preventing benign prostatic hyperplasia. Med Hypotheses. 2001 Jan; 56: 4-Jan

100770 McCluggage, W. G., Ganesan, R., Hirschowitz, L., Miller, K., Rollason, T. P. Ectopic prostatic tissue in the uterine cervix and vagina: report of a series with a detailed immunohistochemical analysis. Am J Surg Pathol. 2006 Feb; 30: 209-15

108780 McConnell, J. D., Roehrborn, C. G., Bautista, O. M., Andriole, G. L. , Jr., Dixon, C. M., Kusek, J. W., Lepor, H., McVary, K. T., Nyberg, L. M. , Jr., Clarke, H. S., Crawford, E. D., Diokno, A., Foley, J. P., Foster, H. E., Jacobs, S. C., Kapla The long-term effect of doxazosin, finasteride, and combination therapy on the clinical progression of benign prostatic hyperplasia. N Engl J Med. 2003 Dec 18; 349: 2387-98

108500 McCulloch, D. R., Akl, P., Samaratunga, H., Herington, A. C., Odorico, D. M. Expression of the disintegrin metalloprotease, ADAM-10, in prostate cancer and its regulation by dihydrotestosterone, insulin-like growth factor I, and epidermal growth factor in the prostate cancer cell model LNCaP. Clin Cancer Res. 2004 Jan 1; 10: 314-23

105860 McDonald, H., Hux, M., Brisson, M., Bernard, L., Nickel, J. C. An economic evaluation of doxazosin, finasteride and combination therapy in the treatment of benign prostatic hyperplasia. Can J Urol. 2004 Aug; 11: 2327-40

118670 McDonnell, J., Busschbach, J. J., Kok, E., van Exel, J., Stolk, E., Koopmanschap, M., Rutten, F. F. Lower urinary tract symptoms suggestive of benign prostatic obstruction--Triumph: health-economical analysis. Eur Urol. 2001; 39 Suppl 3: 37-41

118070 McDonnell, J., Stoevelaar, H. J., Bosch, J. L., Kahan, J. P. The appropriateness of treatment of benign prostatic hyperplasia: a comparison of Dutch and multinational criteria. Health Policy. 2001 Jul; 57: 45-56

107350 McEwen, D. R., Alejos, P. Transurethral microwave therapy of the prostate. Semin Perioper Nurs. 2001 Jan; 10: 17-23

128180 McGillivray, D., Mok, E., Mulrooney, E., Kramer, M. S. A head-to-head comparison: 'clean-void' bag versus catheter urinalysis in the diagnosis of urinary tract infection in young children. J Pediatr. 2005 Oct; 147: 451-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

138670 McIlroy, P. J., Abbott, G. D., Anderson, N. G., Turner, J. G., Mogridge, N., Wells, J. E. Outcome of primary vesicoureteric reflux detected following fetal renal pelvic dilatation. J Paediatr Child Health. 2000 Dec; 36: 569-73

134470 McIntosh, S. L., Griffiths, C. J., Drinnan, M. J., Robson, W. A., Ramsden, P. D., Pickard, R. S. Noninvasive measurement of bladder pressure. Does mechanical interruption of the urinary stream inhibit detrusor contraction?. J Urol. 2003 Mar; 169: 1003-6

133250 McIntosh, S., Drinnan, M., Griffiths, C., Robson, W., Ramsden, P., Pickard, R. Relationship of abdominal pressure and body mass index in men with LUTS. Neurourol Urodyn. 2003; 22: 602-5

115600 McKeage, K., Plosker, G. L. Alfuzosin: a review of the therapeutic use of the prolonged-release formulation given once daily in the management of benign prostatic hyperplasia. Drugs. 2002; 62: 633-53

105900 McKenney, J. K., Amin, M. B., Srigley, J. R., Jimenez, R. E., Ro, J. Y., Grignon, D. J., Young, R. H. Basal cell proliferations of the prostate other than usual basal cell hyperplasia: a clinicopathologic study of 23 cases, including four carcinomas, with a proposed classification. Am J Surg Pathol. 2004 Oct; 28: 1289-98

103930 McKie, A. B., Douglas, D. A., Olijslagers, S., Graham, J., Omar, M. M., Heer, R., Gnanapragasam, V. J., Robson, C. N., Leung, H. Y. Epigenetic inactivation of the human sprouty2 (hSPRY2) homologue in prostate cancer. Oncogene. 2005 Mar 24; 24: 2166-74

125020 McKinley, W., McNamee, S., Meade, M., Kandra, K., Abdul, N. Incidence, etiology, and risk factors for fever following acute spinal cord injury. J Spinal Cord Med. 2006; 29: 501-6

156250 McLerran, D., Grizzle, W. E., Feng, Z., Bigbee, W. L., Banez, L. L., Cazares, L. H., Chan, D. W., Diaz, J., Izbicka, E., Kagan, J., Malehorn, D. E., Malik, G., Oelschlager, D., Partin, A., Randolph, T., Rosenzweig, N., Srivastava, S., Srivastava, S., Thom Analytical validation of serum proteomic profiling for diagnosis of prostate cancer: sources of sample bias. Clin Chem. 2008; 54: 44-52

134090 McLoughlin, T. G. , Jr., Joseph, M. M. Antibiotic resistance patterns of uropathogens in pediatric emergency department patients. Acad Emerg Med. 2003 Apr; 10: 347-51

151120 McMillan, Z. M., Austin, J. C., Knudson, M. J., Hawtrey, C. E. and Cooper, C. S. Bladder volume at onset of reflux on initial cystogram predicts spontaneous resolution. J Urol. 2006; 176: 1838-41

129450 McMurdo, M. E., Bissett, L. Y., Price, R. J., Phillips, G., Crombie, I. K. Does ingestion of cranberry juice reduce symptomatic urinary tract infections in older people in hospital? A double-blind, placebo-controlled trial. Age Ageing. 2005 May; 34: 256-61

111330 McNaughton Collins, M. The impact of chronic prostatitis/chronic pelvic pain syndrome on patients. World J Urol. 2003 Jun; 21: 86-9

120830 McNaughton Collins, M., MacDonald, R., Wilt, T. J. Diagnosis and treatment of chronic abacterial prostatitis: a systematic review. Ann Intern Med. 2000 Sep 5; 133: 367-81

118240 McNaughton, C., Mac Donald, R., Wilt, T. Interventions for chronic abacterial prostatitis. Cochrane Database Syst Rev. 2001; : CD002080

124030 McNaughton-Collins, M., Barry, M. J. Managing patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Am J Med. 2005 Dec; 118: 1331-9

118200 McNeal, J. E., Cohen, R. J., Brooks, J. D. Role of cytologic criteria in the histologic diagnosis of Gleason grade 1 prostatic adenocarcinoma. Hum Pathol. 2001 Apr; 32: 441-6

106200 McNeill, A. S., Rizvi, S., Byrne, D. J. Prostate size influences the outcome after presenting with acute urinary retention. BJU Int. 2004 Sep; 94: 559-62

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

140530 McNeill, S. A., Daruwala, P. D., Mitchell, I. D., Shearer, M. G., Hargreave, T. B. Sustained-release alfuzosin and trial without catheter after acute urinary retention: a prospective, placebo-controlled. BJU Int. 1999 Oct; 84: 622-7

118920 McNeill, S. A., Hargreave, T. B., Geffriaud-Ricouard, C., Santoni, J., Roehrborn, C. G. Postvoid residual urine in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia: pooled analysis of eleven controlled studies with alfuzosin. Urology. 2001 Mar; 57: 459-65

104380 McNeill, S. A., Hargreave, T. B., Roehrborn, C. G. Alfuzosin 10 mg once daily in the management of acute urinary retention: results of a double-blind placebo-controlled study. Urology. 2005 Jan; 65: 83-9; discussion 89-90

118690 McNicholas, T. A. Lower urinary tract symptoms suggestive of benign prostatic obstruction: what are the current practice patterns?. Eur Urol. 2001; 39 Suppl 3: 26-30

160490 McNicholas, T. A. Management of symptomatic BPH in the UK: who is treated and how?. Eur Urol. 1999; 36 Suppl 3: 33-9

114490 McNicholas, T. A., Singh, S. The use of lasers in benign prostatic enlargement. Curr Urol Rep. 2000 Aug; 1: 124-31

122310 McPartland, J. M., Pruitt, P. L. Benign prostatic hyperplasia treated with saw palmetto: a literature search and an experimental case study. J Am Osteopath Assoc. 2000 Feb; 100: 89-96

122510 McSherry, J., Weiss, R. Managing benign prostatic hyperplasia in primary care. Patient-centred approach. Can Fam Physician. 2000 Feb; 46: 383-9

101490 McVary, K. Lower urinary tract symptoms and sexual dysfunction: epidemiology and pathophysiology. BJU Int. 2006 Apr; 97 Suppl 2: 23-8; discussion 44-5

100290 McVary, K. T. Alfuzosin for symptomatic benign prostatic hyperplasia: long-term experience. J Urol. 2006 Jan; 175: 35-42

129210 McVary, K. T. Erectile dysfunction and lower urinary tract symptoms secondary to BPH. Eur Urol. 2005 Jun; 47: 838-45

128110 McVary, K. T. Interrelation of erectile dysfunction and lower urinary tract symptoms. Drugs Today (Barc). 2005 Aug; 41: 527-36

114080 McVary, K. T. Medical therapy for benign prostatic hyperplasia progression. Curr Urol Rep. 2002 Aug; 3: 269-75

110990 McVary, K. T. Sexual dysfunction in men with lower urinary tract symptoms and benign prostatic hyperplasia: an emerging link. BJU Int. 2003 Jun; 91: 770-1

155810 McVary, K. T., Kaufman, J., Young, J. M. and Tseng, L. J. Sildenafil citrate improves erectile function: a randomised double-blind trial with open-label extension. Int J Clin Pract. 2007; 61: 1843-9

131360 McVary, K. T., McKenna, K. E. The relationship between erectile dysfunction and lower urinary tract symptoms: epidemiological, clinical, and basic science evidence. Curr Urol Rep. 2004 Aug; 5: 251-7

153240 McVary, K. T., Monnig, W., Camps, J. L., Jr., Young, J. M., Tseng, L. J. and van den Ende, G. Sildenafil citrate improves erectile function and urinary symptoms in men with erectile dysfunction and lower urinary tract symptoms associated with benign prostatic hyperplasia: a randomized, double-blind trial. J Urol. 2007; 177: 1071-7

101360 McVary, K. T., Rademaker, A., Lloyd, G. L., Gann, P. Autonomic nervous system overactivity in men with lower urinary tract symptoms secondary to benign prostatic hyperplasia. J Urol. 2005 Oct; 174: 1327-433

153760 McVary, K. T., Roehrborn, C. G., Kaminetsky, J. C., Auerbach, S. M., Wachs, B., Young, J. M., Esler, A., Sides, G. D. and Denes, B. S. Tadalafil relieves lower urinary tract symptoms secondary to benign prostatic hyperplasia. J Urol. 2007; 177: 1401-7

115010 Meade-D'Alisera, P., Wentland, M., Merriweather, T., Ghafar, M. Similar symptoms and confounding conditions: benign prostatic hyperplasia versus hyperglycemia. Urol Nurs. 2001 Oct; 21: 354-5

160920 Medina, J. J., Parra, R. O., Moore, R. G. Benign prostatic hyperplasia (the aging prostate). Med Clin North Am. 1999 Sep; 83: 1213-29

152400 Meehan, T. P., Tabeta, K., Du, X., Woodward, L. S., Firozi, K., Beutler, B. and Justice, M. J. Point mutations in the melanocortin-4 receptor cause variable obesity in mice. Mamm Genome. 2006; 17: 1162-71

161180 Mehik, A., Hellstrom, P., Lukkarinen, O., Sarpola, A., Alfthan, O. Increased intraprostatic pressure in patients with chronic prostatitis. Urol Res. 1999 Aug; 27: 277-9

137170 Mehik, A., Hellstrom, P., Nickel, J. C., Kilponen, A., Leskinen, M., Sarpola, A., Lukkarinen, O. The chronic prostatitis-chronic pelvic pain syndrome can be characterized by prostatic tissue pressure measurements. J Urol. 2002 Jan; 167: 137-40

111940 Mehta, P. B., Jenkins, B. L., McCarthy, L., Thilak, L., Robson, C. N., Neal, D. E., Leung, H. Y. MEK5 overexpression is associated with metastatic prostate cancer, and stimulates proliferation, MMP-9 expression and invasion. Oncogene. 2003 Mar 6; 22: 1381-9

120450 Mehta, P. B., Robson, C. N., Neal, D. E., Leung, H. Y. Serum keratinocyte growth factor measurement in patients with prostate cancer. J Urol. 2000 Dec; 164: 2151-5

161580 Meigs, J. B., Barry, M. J., Giovannucci, E., Rimm, E. B., Stampfer, M. J., Kawachi, I. Incidence rates and risk factors for acute urinary retention: the health professionals followup study. J Urol. 1999 Aug; 162: 376-82

117160 Meigs, J. B., Mohr, B., Barry, M. J., Collins, M. M., McKinlay, J. B. Risk factors for clinical benign prostatic hyperplasia in a community-based population of healthy aging men. J Clin Epidemiol. 2001 Sep; 54: 935-44

106590 Meinardi, J. R., Kremer, J., van der Meer, J. Deep vein thrombosis associated with distension of the urinary bladder due to benign prostatic hypertrophy--a case report. Neth J Med. 2004 Apr; 62: 137-8

137210 Melchior, D., Hammer, P., Fimmers, R., Schuller, H., Albers, P. Long term results and morbidity of paraaortic compared with paraaortic and iliac adjuvant radiation in clinical stage I seminoma. Anticancer Res. 2001 Jul-Aug; 21: 2989-93

110390 Melidis, P., Pikoulis, E., Pavlakis, E., Tsiledaki, M., Kondylis, F. I. Acquired bladder diverticula can mimic obstructive extrabiliary jaundice. Urology. 2003 Aug; 62: 351

140060 Memon, A., Ather, M. H. Use of residual fraction instead of residual volume in the evaluation of lower urinary tract symptoms. Tech Urol. 2000 Mar; 6: 26-8

115670 Men, S., Cakar, B., Conkbayir, I., Hekimoglu, B. Detection of prostatic carcinoma: the role of TRUS, TRUS guided biopsy, digital rectal examination, PSA and PSA density. J Exp Clin Cancer Res. 2001 Dec; 20: 473-80

157090 Menage, J. L. Benign prostatic hyperplasia: You have to put your finger in. Bmj. 2008; 336: 232-3

152650 Menarini, M., Del Popolo, G., Di Benedetto, P., Haselmann, J., Bodeker, R. H., Schwantes, U. and Madersbacher, H. Trospium chloride in patients with neurogenic detrusor overactivity: is dose titration of benefit to the patients?. Int J Clin Pharmacol Ther. 2006; 44: 623-32

154420 Menezes, M. N. and Puri, P. The role of endoscopic treatment in the management of grade v primary vesicoureteral reflux. Eur Urol. 2007; 52: 1505-9

151600 Meng, F., Gao, B., Fu, Q., Chen, J., Liu, Y., Shi, B. and Xu, Z. Change of sexual function in patients before and after Ho:YAG laser enucleation of the prostate. J Androl. 2007; 28: 259-61

111010 Merendino, R. A., Salvo, F., Saija, A., Di Pasquale, G., Tomaino, A., Minciullo, P. L., Fraccica, G., Gangemi, S. Malondialdehyde in benign prostate hypertrophy: a useful marker?. Mediators Inflamm. 2003 Apr; 12: 127-8

133150 Merguerian, P. A., Byun, E., Chang, B. Lower urinary tract reconstruction for duplicated renal units with ureterocele. Is excision of the ureterocele with reconstruction of the bladder base necessary?. J Urol. 2003 Oct; 170: 1510-3; discussion 1513

131490 Merlini, E., Lelli Chiesa, P. Obstructive ureterocele-an ongoing challenge. World J Urol. 2004 Jun; 22: 107-14

107720 Merrick, G. S., Butler, W. M., Wallner, K. E., Lief, J. H., Hinerman-Mulroy, A., Galbreath, R. W. Prostate-specific antigen (PSA) velocity and benign prostate hypertrophy predict for PSA spikes following prostate brachytherapy. Brachytherapy. 2003; 2: 181-8

116690 Merseburger, A. S., Connelly, R. R., Sun, L., Richter, E., Moul, J. W. Use of serum creatinine to predict pathologic stage and recurrence among radical prostatectomy patients. Urology. 2001 Nov; 58: 729-34

165030 Merz, E., Miric-Tesanic, D., Bahlmann, F., Weber, G., Hallermann, C. Prenatal sonographic chest and lung measurements for predicting severe pulmonary hypoplasia. Prenat Diagn. 1999 Jul; 19: 614-9

151410 Metzelder, M. L., Kubler, J., Petersen, C., Gluer, S., Nustede, R. and Ure, B. M. Laparoscopic nephroureterectomy in children: a prospective study on Ligasure versus Clip/Ligation. Eur J Pediatr Surg. 2006; 16: 241-4

153120 Meuleman, E. J. Editorial comment on: The immediate and 6-mo reproducibility of pressure-flow studies in men with benign prostatic enlargement. Eur Urol. 2007; 52: 1193-4

114650 Meyer, J. P., Gillatt, D. A. Alternative medications for benign prostatic hyperplasia available on the Internet: a review of the evidence for their use. BJU Int. 2002 Jul; 90: 41-4

117890 Meyer, M. D., Altenbach, R. J., Bai, H., Basha, F. Z., Carroll, W. A., Kerwin, J. F. , Jr., Lebold, S. A., Lee, E., Pratt, J. K., Sippy, K. B., Tietje, K., Wendt, M. D., Brune, M. E., Buckner, S. A., Hancock, A. A., Drizin, I. Structure-activity studies for a novel series of bicyclic substituted hexahydrobenz[e]isoindole alpha1A adrenoceptor antagonists as potential agents for the symptomatic treatment of benign prostatic hyperplasia. J Med Chem. 2001 Jun 7; 44: 1971-85

164520 Meyer, T. W., Bennett, P. H., Nelson, R. G. Podocyte number predicts long-term urinary albumin excretion in Pima Indians with Type II diabetes and microalbuminuria. Diabetologia. 1999 Nov; 42: 1341-4

105720 Michael, A., Stephan, C., Kristiansen, G., Burckhardt, M., Loening, S. A., Schnorr, D., Jung, K. Diagnostic validity of macrophage migration inhibitory factor in serum of patients with prostate cancer: a re-evaluation. Prostate. 2005 Jan 1; 62: 34-9

134590 Michael, M., Hodson, E. M., Craig, J. C., Martin, S., Moyer, V. A. Short versus standard duration oral antibiotic therapy for acute urinary tract infection in children. Cochrane Database Syst Rev. 2003; : CD003966

153270 Michalakis, K., Williams, C. J., Mitsiades, N., Blakeman, J., Balafouta-Tselenis, S., Giannopoulos, A. and Mantzoros, C. S. Serum adiponectin concentrations and tissue expression of adiponectin receptors are reduced in patients with prostate cancer: a case control study. Cancer Epidemiol Biomarkers Prev. 2007; 16: 308-13

117740 Michel, M. C., Bressel, H. U., Goepel, M., Rubben, H. A 6-month large-scale study into the safety of tamsulosin. Br J Clin Pharmacol. 2001 Jun; 51: 609-14

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

108790 Michel, M. C., de la Rosette, J. J. Efficacy and safety of tamsulosin in the treatment of urological diseases. Expert Opin Pharmacother. 2004 Jan; 5: 151-60

140390 Michel, M. C., Flannery, M. T., Narayan, P. Worldwide experience with alfuzosin and tamsulosin. Urology. 2001 Oct; 58: 508-16

118700 Michel, M. C., Goepel, M. Lower urinary tract symptoms suggestive of benign prostatic obstruction--what's the long-term effectiveness of medical therapies?. Eur Urol. 2001; 39 Suppl 3: 20-5

119840 Michel, M. C., Goepel, M. Treatment satisfaction of patients with lower urinary tract symptoms: randomised controlled trials vs. real life practice. Eur Urol. 2000; 38 Suppl 1: 40-7

105930 Michel, M. C., Heemann, U., Schumacher, H., Mehlburger, L., Goepel, M. Association of hypertension with symptoms of benign prostatic hyperplasia. J Urol. 2004 Oct; 172: 1390-3

121860 Michel, M. C., Mehlburger, L., Schumacher, H., Bressel, H. U., Goepel, M. Effect of diabetes on lower urinary tract symptoms in patients with benign prostatic hyperplasia. J Urol. 2000 Jun; 163: 1725-9

119760 Michel, M. C., Neumann, H. G., Mehlburger, L., Schumacher, H., Goepel, M. Does the time of administration (morning or evening) affect the tolerability or efficacy of tamsulosin?. BJU Int. 2001 Jan; 87: 31-4

123890 Michel, M. C., Vrydag, W. Alpha1-, alpha2- and beta-adrenoceptors in the urinary bladder, urethra and prostate. Br J Pharmacol. 2006 Feb; 147 Suppl 2: S88-119

111960 Michel, M. S., Knoll, T., Trojan, L., Kohrmann, K. U., Alken, P. Rotoresect for bloodless transurethral resection of the prostate: a 4-year follow-up. BJU Int. 2003 Jan; 91: 65-8

115230 Michel, M. S., Koehrmann, K. U., Knoll, T., Hoang-Bohm, J., Alken, P. Clinical evaluation of a newly developed endoscopic resection device (Rotoresect): physical principle and first clinical results. Surg Endosc. 2001 Dec; 15: 1395-400

118190 Michelotti, G. A., Price, D. T., Schwinn, D. A. Alpha 1-adrenergic receptor regulation: basic science and clinical implications. Pharmacol Ther. 2000 Dec; 88: 281-309

137180 Michelow, I. C., Lozano, J., Olsen, K., Goto, C., Rollins, N. K., Ghaffar, F., Rodriguez-Cerrato, V., Leinonen, M., McCracken, G. H. , Jr. Diagnosis of Streptococcus pneumoniae lower respiratory infection in hospitalized children by culture, polymerase chain reaction, serological testing, and urinary antigen detection. Clin Infect Dis. 2002 Jan 1; 34: E1-11

155730 Michielsen, D. P., Debacker, T., De Boe, V., Van Lersberghe, C., Kaufman, L., Braeckman, J. G., Amy, J. J. and Keuppens, F. I. Bipolar transurethral resection in saline--an alternative surgical treatment for bladder outlet obstruction?. J Urol. 2007; 178: 2035-9; discussion 2039

115200 Miekos, E., Trzepizur, Z., Rozanski, W., Boniecki, R., Kusnierz, J., Jablonowski, Z., Zydek, C. The efficacy of terazosin for treating benign prostatic hyperplasia: a multicentre clinical trial. BJU Int. 2002 May; 89: 771-2

104710 Miele, M. E. Percent free PSA as an additional measure in a prostate cancer screen. Clin Lab Sci. 2001 Spring; 14: 102-7

151740 Mijailovich, S. M., Sullivan, M. P., Yalla, S. V. and Venegas, J. G. Effect of urethral compliance on the steady state p-Q relationships assessed with a mechanical analog of the male lower urinary tract. Neurourol Urodyn. 2007; 26: 234-46

118230 Mikhailidis, D. P., Khan, M. A., Milionis, H. J., Morgan, R. J. The treatment of hypertension in patients with erectile dysfunction. Curr Med Res Opin. 2000; 16 Suppl 1: s31-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

117050 Mikolajczyk, S. D., Marker, K. M., Millar, L. S., Kumar, A., Saedi, M. S., Payne, J. K., Evans, C. L., Gasior, C. L., Linton, H. J., Carpenter, P., Rittenhouse, H. G. A truncated precursor form of prostate-specific antigen is a more specific serum marker of prostate cancer. Cancer Res. 2001 Sep 15; 61: 6958-63

120250 Mikolajczyk, S. D., Millar, L. S., Marker, K. M., Wang, T. J., Rittenhouse, H. G., Marks, L. S., Slawin, K. M. Seminal plasma contains 'BPSA,' a molecular form of prostate-specific antigen that is associated with benign prostatic hyperplasia. Prostate. 2000 Nov 1; 45: 271-6

122570 Mikolajczyk, S. D., Millar, L. S., Wang, T. J., Rittenhouse, H. G., Marks, L. S., Song, W., Wheeler, T. M., Slawin, K. M. A precursor form of prostate-specific antigen is more highly elevated in prostate cancer compared with benign transition zone prostate tissue. Cancer Res. 2000 Feb 1; 60: 756-9

122650 Mikolajczyk, S. D., Millar, L. S., Wang, T. J., Rittenhouse, H. G., Wolfert, R. L., Marks, L. S., Song, W., Wheeler, T. M., Slawin, K. M. 'BPSA,' a specific molecular form of free prostate-specific antigen, is found predominantly in the transition zone of patients with nodular benign prostatic hyperplasia. Urology. 2000 Jan; 55: 41-5

107270 Mikolajczyk, S. D., Rittenhouse, H. G. Tumor-associated forms of prostate specific antigen improve the discrimination of prostate cancer from benign disease. Rinsho Byori. 2004 Mar; 52: 223-30

106750 Mikolajczyk, S. D., Song, Y., Wong, J. R., Matson, R. S., Rittenhouse, H. G. Are multiple markers the future of prostate cancer diagnostics?. Clin Biochem. 2004 Jul; 37: 519-28

103240 Milani, S., Djavan, B. Lower urinary tract symptoms suggestive of benign prostatic hyperplasia: latest update on alpha-adrenoceptor antagonists. BJU Int. 2005 Jun; 95 Suppl 4: 29-36

165850 Miller, J. A., Anacta, L. A., Cattran, D. C. Impact of gender on the renal response to angiotensin II. Kidney Int. 1999 Jan; 55: 278-85

164280 Miller, J. A., Thai, K., Scholey, J. W. Angiotensin II type 1 receptor gene polymorphism predicts response to losartan and angiotensin II. Kidney Int. 1999 Dec; 56: 2173-80

156490 Miller, J. and Tarter, T. H. Update on the use of dutasteride in the management of benign prostatic hypertrophy. Clin Interv Aging. 2007; 2: 99-104

164230 Miller, J., Fischer, C., Freese, R., Altmannsberger, M., Weidner, W. Nephron-sparing surgery for renal cell carcinoma--is tumor size a suitable parameter for indication?. Urology. 1999 Dec; 54: 988-93

117960 Miller, M. C., O'Dowd, G. J., Partin, A. W., Veltri, R. W. Contemporary use of complexed PSA and calculated percent free PSA for early detection of prostate cancer: impact of changing disease demographics. Urology. 2001 Jun; 57: 1105-11

110850 Miller, P. D., Kastner, C., Ramsey, E. W., Parsons, K. Cooled thermotherapy for the treatment of benign prostatic hyperplasia: durability of results obtained with the Targis System. Urology. 2003 Jun; 61: 1160-4; discussion 1164-5

153490 Mills, I. W., Crossland, A., Patel, A. and Ramonas, H. Atorvastatin treatment for men with lower urinary tract symptoms and benign prostatic enlargement. Eur Urol. 2007; 52: 503-9

140220 Mills, I. W., Greenland, J. E., McMurray, G., McCoy, R., Ho, K. M., Noble, J. G., Brading, A. F. Studies of the pathophysiology of idiopathic detrusor instability: the physiological properties of the detrusor smooth muscle and its pattern of innervation. J Urol. 2000 Feb; 163: 646-51

125770 Mills, P. K., Beaumont, J. J., Nasseri, K. Proportionate mortality among current and former members of the United Farm Workers of America, AFL-CIO, in California 1973-2000. J Agromedicine. 2006; 11: 39-48

156320 Milonas, D., Matjosaitis, A. and Jievaltas, M. Transition zone volume measurement--is it useful before surgery for benign prostatic hyperplasia?. Medicina (Kaunas). 2007; 43: 792-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

109040 Milonas, D., Trumbeckas, D. Prostate-specific antigen and transition zone index - powerful predictors for acute urinary retention in men with benign prostatic hyperplasia. Medicina (Kaunas). 2003; 39: 1071-7

109860 Milonas, D., Trumbeckas, D., Juska, P. The importance of prostatic measuring by transrectal ultrasound in surgical management of patients with clinically benign prostatic hyperplasia. Medicina (Kaunas). 2003; 39: 860-6

160580 Mimata, H., Nomura, Y., Kasagi, Y., Satoh, F., Emoto, A., Li, W., Douno, S., Mori, H. Prediction of alpha-blocker response in men with benign prostatic hyperplasia by magnetic resonance imaging. Urology. 1999 Nov; 54: 829-33

114720 Mimata, H., Satoh, F., Ohno, H., Miyoshi, M., Nomura, Y. Clinical characteristics of alpha-blocker responders in men with benign prostatic hyperplasia. Urol Int. 2002; 68: 237-42

140050 Min, J. K., Byun, J. Y., Lee, S. H., Hong, Y. S., Park, S. H., Cho, C. S., Kim, H. Y. Urinary bladder involvement in patients with systemic lupus erythematosus: with review of the literature. Korean J Intern Med. 2000 Jan; 15: 42-50

112870 Minardi, D., Galosi, A. B., Dell'Atti, L., Hanitzsch, H., Mario, P., Muzzonigro, G. Production of serum-free and total prostate-specific antigen due to prostatic intraepithelial neoplasia. Scand J Urol Nephrol. 2002; 36: 323-9

107160 Minardi, D., Galosi, A. B., Dell'Atti, L., Yehia, M., Muzzonigro, G. Detectable serum PSA after radical prostatectomy. Clinical and pathological relevance of perianastomotic biopsies. Anticancer Res. 2004 Mar-Apr; 24: 1179-85

116620 Minardi, D., Galosi, A. B., Recchioni, A., Giammarco, L., Polito, M., Muzzonigro, G. Diagnostic accuracy of percent free prostate-specific antigen in prostatic pathology and its usefulness in monitoring prostatic cancer patients. Urol Int. 2001; 67: 272-82

107000 Minardi, D., Galosi, A. B., Yehia, M., Cristalli, A., Hanitzsch, H., Polito, M., Muzzonigro, G. Transurethral resection versus minimally invasive treatments of benign prostatic hyperplasia: results of treatments. Our experience. Arch Ital Urol Androl. 2004 Mar; 76: 8-Nov

119060 Minardi, D., Garofalo, F., Yehia, M., Cristalli, A. F., Giammarco, L., Galosi, A. B., Muzzonigro, G. Pressure-flow studies in men with benign prostatic hypertrophy before and after treatment with transurethral needle ablation. Urol Int. 2001; 66: 89-93

104200 Minardi, D., Ricci, L., Muzzonigro, G. Acupunctural reflexotherapy as anaesthesia in day-surgery cases. Our experience in left internal vein ligature for symptomatic varicocele and in circumcision. Arch Ital Urol Androl. 2004 Dec; 76: 173-4

117080 Minei, S., Hachiya, T., Ishida, H., Okada, K. Adenoid cystic carcinoma of the prostate: a case report with immunohistochemical and in situ hybridization staining for prostate-specific antigen. Int J Urol. 2001 Aug; 8: S41-4

100100 Minelli, A., Ronquist, G., Carlsson, L., Mearini, E., Nilsson, O., Larsson, A. Antiprostasome antibody titres in benign and malignant prostate disease. Anticancer Res. 2005 Nov-Dec; 25: 4399-402

123830 Miner, M., Rosenberg, M. T., Perelman, M. A. Treatment of lower urinary tract symptoms in benign prostatic hyperplasia and its impact on sexual function. Clin Ther. 2006 Jan; 28: 13-25

114510 Minnee, P., Debruyne, F. M., de la Rosette, J. J. Transurethral microwave thermotherapy in benign prostatic hyperplasia. Curr Urol Rep. 2000 Aug; 1: 110-5

102900 Minnery, C. H., Getzenberg, R. H. Benign prostatic hyperplasia cell line viability and modulation of jm-27 by doxazosin and Ibuprofen. J Urol. 2005 Jul; 174: 375-9

165790 Mir, A. H., Hanmandlu, M., Tandon, S. N. Description of shapes in CT images. The usefulness of time-series modeling techniques for identifying organs. IEEE Eng Med Biol Mag. 1999 Jan-Feb; 18: 79-84

153450 Miranda, M. L., Oliveira-Filho, A. G., Carvalho, P. T., Ungersbock, E., Olimpio, H. and Bustorff-Silva, J. M. Laparoscopic upper-pole nephroureterectomy in infants. Int Braz J Urol. 2007; 33: 87-91; discussion 91-3

151370 Mirone, V., Imbimbo, C., Longo, N. and Fusco, F. The detrusor muscle: an innocent victim of bladder outlet obstruction. Eur Urol. 2007; 51: 57-66

105940 Mirone, V., Imbimbo, C., Sessa, G., Palmieri, A., Longo, N., Granata, A. M., Fusco, F. Correlation between detrusor collagen content and urinary symptoms in patients with prostatic obstruction. J Urol. 2004 Oct; 172: 1386-9

112500 Mirtti, T., Alanen, K., Kallajoki, M., Rinne, A., Soderstrom, K. O. Expression of cystatins, high molecular weight cytokeratin, and proliferation markers in prostatic adenocarcinoma and hyperplasia. Prostate. 2003 Mar 1; 54: 290-8

117600 Mirtti, T., Kallajoki, M., Aaltonen, M., Alanen, K. Cyclin A and Ki-67 with DNA content in benign and malignant prostatic epithelial lesions. Anal Quant Cytol Histol. 2001 Jun; 23: 229-37

102820 Mishra, D., Thangaraj, K., Mandhani, A., Kumar, A., Mittal, R. Is reduced CAG repeat length in androgen receptor gene associated with risk of prostate cancer in Indian population?. Clin Genet. 2005 Jul; 68: 55-60

154950 Mishra, V. C., Allen, D. J., Nicolaou, C., Sharif, H., Hudd, C., Karim, O. M., Motiwala, H. G. and Laniado, M. E. Does intraprostatic inflammation have a role in the pathogenesis and progression of benign prostatic hyperplasia?. BJU Int. 2007; 100: 327-31

124020 Mishra, V., Emberton, M. To what extent do real life practice studies differ from randomized controlled trials in lower urinary tract symptoms/benign prostatic hyperplasia?. Curr Opin Urol. 2006 Jan; 16: 4-Jan

164030 Misra, M., Vonesh, E., Churchill, D. N., Moore, H. L., Van Stone, J. C., Nolph, K. D. Preservation of glomerular filtration rate on dialysis when adjusted for patient dropout. Kidney Int. 2000 Feb; 57: 691-6

113930 Mitropoulos, D., Anastasiou, I., Giannopoulou, C., Nikolopoulos, P., Alamanis, C., Zervas, A., Dimopoulos, C. Symptomatic benign prostate hyperplasia: impact on partners' quality of life. Eur Urol. 2002 Mar; 41: 240-4; discussion 244-5

153420 Mitropoulos, D., Moutzouris, G., Papadimitriou, V., Perimenis, P. and Sofras, F. The effectiveness of a scientific symposium to change urologists' attitude towards treatment of LUTS/BPH. Int Urol Nephrol. 2007; 39: 1153-8

123380 Mitropoulos, D., Papadoukakis, S., Zervas, A., Alamanis, C., Giannopoulos, A. Efficacy of tolterodine in preventing urge incontinence immediately after prostatectomy. Int Urol Nephrol. 2006; 38: 263-8

151910 Mitsnefes, M. M., Kathman, T. S., Mishra, J., Kartal, J., Khoury, P. R., Nickolas, T. L., Barasch, J. and Devarajan, P. Serum neutrophil gelatinase-associated lipocalin as a marker of renal function in children with chronic kidney disease. Pediatr Nephrol. 2007; 22: 101-8

164580 Mitsui, T., Kakizaki, H., Kobayashi, S., Morita, H., Matsumura, K., Koyanagi, T. Vesicourethral function in diabetic patients: association of abnormal nerve conduction velocity with vesicourethral dysfunction. Neurourol Urodyn. 1999; 18: 639-45

160680 Mitsumori, K., Terai, A., Oka, H., Segawa, T., Ogura, K., Yoshida, O., Ogawa, O. Androgen receptor CAG repeat length polymorphism in benign prostatic hyperplasia (BPH): correlation with adenoma growth. Prostate. 1999 Dec 1; 41: 253-7

165400 Mittal, S. K., Dash, S. C., Tiwari, S. C., Agarwal, S. K., Saxena, S., Fishbane, S. Bone histology in patients with nephrotic syndrome and normal renal function. Kidney Int. 1999 May; 55: 1912-9

152920 Mitterberger, M., Pallwein, L., Gradl, J., Frauscher, F., Neuwirt, H., Leunhartsberger, N., Strasser, H., Bartsch, G. and Pinggera, G. M. Persistent detrusor overactivity after transurethral resection of the prostate is associated with reduced perfusion of the urinary bladder. BJU Int. 2007; 99: 831-5

155790 Mitterberger, M., Pelzer, A., Colleselli, D., Bartsch, G., Strasser, H., Pallwein, L., Aigner, F., Gradl, J. and Frauscher, F. Contrast-enhanced ultrasound for diagnosis of prostate cancer and kidney lesions. Eur J Radiol. 2007; 64: 231-8

140270 Miyake, H., Hara, I., Arakawa, S., Kamidono, S. A clinicopathological study of bladder cancer associated with upper urinary tract cancer. BJU Int. 2000 Jan; 85: 37-41

106190 Miyake, H., Hara, I., Eto, H. Serum level of cathepsin B and its density in men with prostate cancer as novel markers of disease progression. Anticancer Res. 2004 Jul-Aug; 24: 2573-7

113690 Miyashita, H., Kojima, M., Miki, T. Ultrasonic measurement of bladder weight as a possible predictor of acute urinary retention in men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Ultrasound Med Biol. 2002 Aug; 28: 985-90

112700 Miyata, Y., Sakai, H., Hayashi, T., Kanetake, H. Serum insulin-like growth factor binding protein-3/prostate-specific antigen ratio is a useful predictive marker in patients with advanced prostate cancer. Prostate. 2003 Feb 1; 54: 125-32

102480 Miyoshi, Y., Uemura, H., Ishiguro, H., Kitamura, H., Nomura, N., Danenberg, P. V., Kubota, Y. Expression of thymidylate synthase, dihydropyrimidine dehydrogenase, thymidine phosphorylase, and orotate phosphoribosyl transferase in prostate cancer. Prostate Cancer Prostatic Dis. 2005; 8: 260-5

152680 M'Koma, A. E., Blum, D. L., Norris, J. L., Koyama, T., Billheimer, D., Motley, S., Ghiassi, M., Ferdowsi, N., Bhowmick, I., Chang, S. S., Fowke, J. H., Caprioli, R. M. and Bhowmick, N. A. Detection of pre-neoplastic and neoplastic prostate disease by MALDI profiling of urine. Biochem Biophys Res Commun. 2007; 353: 829-34

102530 Mochtar, C. A., Kiemeney, L. A., Laguna, M. P., Debruyne, F. M., de la Rosette, J. J. PSA velocity in conservatively managed BPH: can it predict the need for BPH-related invasive therapy?. Prostate. 2006 Sep 15; 66: 1407-12

104120 Mochtar, C. A., Kiemeney, L. A., Laguna, M. P., van Riemsdijk, M. M., Barnett, G. S., Debruyne, F. M., de la Rosette, J. J. Prognostic role of prostate-specific antigen and prostate volume for the risk of invasive therapy in patients with benign prostatic hyperplasia initially managed with alpha1-blockers and watchful waiting. Urology. 2005 Feb; 65: 300-5

109050 Mochtar, C. A., Kiemeney, L. A., van Riemsdijk, M. M., Barnett, G. S., Laguna, M. P., Debruyne, F. M., de la Rosette, J. J. Prostate-specific antigen as an estimator of prostate volume in the management of patients with symptomatic benign prostatic hyperplasia. Eur Urol. 2003 Dec; 44: 695-700

100270 Mochtar, C. A., Kiemeney, L. A., van Riemsdijk, M. M., Laguna, M. P., Debruyne, F. M., de la Rosette, J. J. Post-void residual urine volume is not a good predictor of the need for invasive therapy among patients with benign prostatic hyperplasia. J Urol. 2006 Jan; 175: 213-6

101270 Mochtar, C. A., Laan, W., Van Houwelingen, K. P., Franke, B., De La Rosette, J. J., Schalken, J. A., Kiemeney, L. A. Polymorphisms in the alpha1A-adrenoceptor gene do not modify the short- and long-term efficacy of alpha1-adrenoceptor antagonists in the treatment of benign prostatic hyperplasia. BJU Int. 2006 Apr; 97: 852-5

154340 Mocroft, A., Kirk, O., Gatell, J., Reiss, P., Gargalianos, P., Zilmer, K., Beniowski, M., Viard, J. P., Staszewski, S. and Lundgren, J. D. Chronic renal failure among HIV-1-infected patients. Aids. 2007; 21: 1119-27

118890 Moghaddami, M., Cohen, P., Stapleton, A. M., Brown, M. P. CD40 is not detected on human prostate cancer cells by immunohistologic techniques. Urology. 2001 Mar; 57: 573-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111260 Mohammed, A. Z., Alhassan, S. U., Edino, S. T., Ochicha, O. Histopathological review of prostatic diseases in Kano, Nigeria. Niger Postgrad Med J. 2003 Mar; 10: 5-Jan

139620 Mold, J. W., Hamm, R. M., Jafri, B. The effect of labeling on perceived ability to recover from acute illnesses and injuries. J Fam Pract. 2000 May; 49: 437-40

106860 Molinie, V., Fromont, G., Sibony, M., Vieillefond, A., Vassiliu, V., Cochand-Priollet, B., Herve, J. M., Lebret, T., Baglin, A. C. Diagnostic utility of a p63/alpha-methyl-CoA-racemase (p504s) cocktail in atypical foci in the prostate. Mod Pathol. 2004 Oct; 17: 1180-90

154200 Molnar, M. Z., Szentkiralyi, A., Lindner, A., Czira, M. E., Szabo, A., Mucsi, I. and Novak, M. High prevalence of patients with a high risk for obstructive sleep apnoea syndrome after kidney transplantation--association with declining renal function. Nephrol Dial Transplant. 2007; 22: 2686-92

153890 Momose, H., Hosokawa, Y., Kishino, T., Ono, T. and Oyama, N. Crossover comparison study on the therapeutic effects of tamsulosin hydrochloride and naftopidil in lower urinary tract symptoms associated with benign prostatic hyperplasia. Drugs Today (Barc). 2007; 43 Suppl A: 1-10

123410 Mondaini, N., Giubilei, G., Ungar, A., Gontero, P., Cai, T., Gavazzi, A., Bartoletti, R., Geppetti, P., Carini, M. Alfuzosin (10 mg) does not affect blood pressure in young healthy men. Eur Urol. 2006 Dec; 50: 1292-6; discussion 1297-8

155150 Mondaini, N., Gontero, P., Giubilei, G., Lombardi, G., Cai, T., Gavazzi, A. and Bartoletti, R. Finasteride 5 mg and sexual side effects: how many of these are related to a nocebo phenomenon?. J Sex Med. 2007; 4: 1708-12

125440 Mong, A., Bellah, R. Imaging the pediatric prostate. Radiol Clin North Am. 2006 Sep; 44: 749-56, ix

114460 Monga, M. Update on the medical management of benign prostatic hyperplasia. Int Urol Nephrol. 2002; 33: 67-8

137260 Monga, M., Gabal-Shehab, L. L., Stein, P. Urinary transforming growth factor-beta1 levels correlate with bladder outlet obstruction. Int J Urol. 2001 Sep; 8: 487-9

113860 Mononen, N., Ikonen, T., Autio, V., Rokman, A., Matikainen, M. P., Tammela, T. L., Kallioniemi, O. P., Koivisto, P. A., Schleutker, J. Androgen receptor CAG polymorphism and prostate cancer risk. Hum Genet. 2002 Aug; 111: 166-71

118050 Mononen, N., Ikonen, T., Syrjakoski, K., Matikainen, M., Schleutker, J., Tammela, T. L., Koivisto, P. A., Kallioniemi, O. P. A missense substitution A49T in the steroid 5-alpha-reductase gene (SRD5A2) is not associated with prostate cancer in Finland. Br J Cancer. 2001 May 18; 84: 1344-7

150900 Monoski, M. A., Gonzalez, R. R., Sandhu, J. S., Reddy, B. and Te, A. E. Urodynamic predictors of outcomes with photoselective laser vaporization prostatectomy in patients with benign prostatic hyperplasia and preoperative retention. Urology. 2006; 68: 312-7

102210 Monoski, M. A., Gonzalez, R. R., Sandhu, J. S., Reddy, B., Te, A. E. Urodynamic predictors of outcomes with photoselective laser vaporization prostatectomy in patients with benign prostatic hyperplasia and preoperative retention. Urology. 2006 Aug; 68: 312-7

157030 Monroy-Cuadros, M., McLaughlin, K., Salazar, A. and Yilmaz, S. Assessment of live kidney donors by magnetic resonance angiography: reliability and impact on outcomes. Clin Transplant. 2008; 22: 29-34

161380 Montanari, E., Guarneri, A., Pozzoni, F., Gelosa, M., Del Nero, A., Trinchieri, A., Zanetti, G., Pisani, E. Contact laser treatment for benign prostatic hypertrophy. Arch Ital Urol Androl. 1999 Jun; 71: 135-42

165040 Montanari, E., Serrago, M., Esposito, N., Rocco, B., Kartalas-Goumas, I., Del Nero, A., Zanetti, G., Trinchieri, A., Pisani, E. Ultrasound-fluoroscopy guided access to the intrarenal excretory system. Ann Urol (Paris). 1999; 33: 168-81

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

129520 Montgomery, D. A., Azmy, A. F. Rhabdomyosarcoma relapse in an unusual site. Pediatr Surg Int. 2005 Jul; 21: 555-6

118550 Monti, S., Di Silverio, F., Iraci, R., Martini, C., Lanzara, S., Falasca, P., Poggi, M., Stigliano, A., Sciarra, F., Toscano, V. Regional variations of insulin-like growth factor I (IGF-I), IGF-II, and receptor type I in benign prostatic hyperplasia tissue and their correlation with intraprostatic androgens. J Clin Endocrinol Metab. 2001 Apr; 86: 1700-6

164100 Montini, G., Sacchetto, E., Murer, L., Dall'Amico, R., Masiero, M., Passerini-Glazel, G., Zacchello, G. Renal glomerular response to the inhibition of prostaglandin E2 synthesis and protein loading after the relief of unilateral ureteropelvic junction obstruction. J Urol. 2000 Feb; 163: 556-60

160600 Montironi, R., Mazzucchelli, R., Pomante, R., Thompson, D., Duval da Silva, V., Vaught, L., Bartels, P. H. Immunohistochemical expression of pi class glutathione S-transferase in the basal cell layer of benign prostate tissue following chronic treatment with finasteride. J Clin Pathol. 1999 May; 52: 350-4

127420 Montorsi, F., Corbin, J., Phillips, S. Review of phosphodiesterases in the urogenital system: new directions for therapeutic intervention. J Sex Med. 2004 Nov; 1: 322-36

105200 Montorsi, F., Naspro, R., Salonia, A., Suardi, N., Briganti, A., Zanoni, M., Valenti, S., Vavassori, I., Rigatti, P. Holmium laser enucleation versus transurethral resection of the prostate: results from a 2-center, prospective, randomized trial in patients with obstructive benign prostatic hyperplasia. J Urol. 2004 Nov; 172: 1926-9

119260 Moody, J. A., Lingeman, J. E. Holmium laser enucleation for prostate adenoma greater than 100 gm.: comparison to open prostatectomy. J Urol. 2001 Feb; 165: 459-62

140540 Moody, J. A., Lingeman, J. E. Holmium laser enucleation of the prostate with tissue morcellation: initial United States experience. J Endourol. 2000 Mar; 14: 219-23

131090 Moon, D. G., Jin, M. H., Lee, J. G., Kim, J. J., Kim, M. G., Cha, D. R. Antidiuretic hormone in elderly male patients with severe nocturia: a circadian study. BJU Int. 2004 Sep; 94: 571-5

130380 Moore, K. N., Gray, M. Urinary incontinence in men: current status and future directions. Nurs Res. 2004 Nov-Dec; 53: S36-41

105570 Mora, G. R., Olivier, K. R., Mitchell, R. F. , Jr., Jenkins, R. B., Tindall, D. J. Regulation of expression of the early growth response gene-1 (EGR-1) in malignant and benign cells of the prostate. Prostate. 2005 May 1; 63: 198-207

112090 Moreira, E. D. , Jr., Lbo, C. F., Diament, A., Nicolosi, A., Glasser, D. B. Incidence of erectile dysfunction in men 40 to 69 years old: results from a population-based cohort study in Brazil. Urology. 2003 Feb; 61: 431-6

135600 Moreira, E. D. , Jr., Lisboa Lobo, C. F., Villa, M., Nicolosi, A., Glasser, D. B. Prevalence and correlates of erectile dysfunction in Salvador, northeastern Brazil: a population-based study. Int J Impot Res. 2002 Aug; 14 Suppl 2: S3-9

127260 Moreland, R. B. In vitro models: research in physiology and pharmacology of the lower urinary tract. Br J Pharmacol. 2006 Feb; 147 Suppl 2: S56-61

108590 Moreland, R. B., Brioni, J. D., Sullivan, J. P. Emerging pharmacologic approaches for the treatment of lower urinary tract disorders. J Pharmacol Exp Ther. 2004 Mar; 308: 797-804

152440 Morelli, A., Vignozzi, L., Filippi, S., Vannelli, G. B., Ambrosini, S., Mancina, R., Crescioli, C., Donati, S., Fibbi, B., Colli, E., Adorini, L. and Maggi, M. BXL-628, a vitamin D receptor agonist effective in benign prostatic hyperplasia treatment, prevents RhoA activation and inhibits RhoA/Rho kinase signaling in rat and human bladder. Prostate. 2007; 67: 234-47

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

154620 Moret, K., Beerenhout, C. H., van den Wall Bake, A. W., Gerlag, P. G., van der Sande, F. M., Leunissen, K. M. and Kooman, J. P. Ionic dialysance and the assessment of Kt/V: the influence of different estimates of V on method agreement. Nephrol Dial Transplant. 2007; 22: 2276-82

137350 Morey, A. F., Iverson, A. J., Swan, A., Harmon, W. J., Spore, S. S., Bhayani, S., Brandes, S. B. Bladder rupture after blunt trauma: guidelines for diagnostic imaging. J Trauma. 2001 Oct; 51: 683-6

114200 Morey, A. F., McDonough, R. C., 3rd, Kizer, W. S., Foley, J. P. Drain-free simple retropubic prostatectomy with fibrin sealant. J Urol. 2002 Aug; 168: 627-9

120080 Morgan, M. W., Deber, R. B., Llewellyn-Thomas, H. A., Gladstone, P., Cusimano, R. J., O'Rourke, K., Tomlinson, G., Detsky, A. S. Randomized, controlled trial of an interactive videodisc decision aid for patients with ischemic heart disease. J Gen Intern Med. 2000 Oct; 15: 685-93

105340 Morgia, G., Falsaperla, M., Malaponte, G., Madonia, M., Indelicato, M., Travali, S., Mazzarino, M. C. Matrix metalloproteinases as diagnostic (MMP-13) and prognostic (MMP-2, MMP-9) markers of prostate cancer. Urol Res. 2005 Feb; 33: 44-50

114010 Morillo, L. E., Diaz, J., Estevez, E., Costa, A., Mendez, H., Davila, H., Medero, N., Rodriguez, N., Chaves, M., Vinueza, R., Ortiz, J. A., Glasser, D. B. Prevalence of erectile dysfunction in Colombia, Ecuador, and Venezuela: a population-based study (DENSA). Int J Impot Res. 2002 Aug; 14 Suppl 2: S10-8

160860 Morote, J., Encabo, G., Lopez, M., de Torres, I. M. Influence of high-grade prostatic intra-epithelial neoplasia on total and percentage free serum prostatic specific antigen. BJU Int. 1999 Oct; 84: 657-60

121530 Morote, J., Encabo, G., Lopez, M., de Torres, I. M. Prediction of prostate volume based on total and free serum prostate-specific antigen: is it reliable?. Eur Urol. 2000 Jul; 38: 91-5

121990 Morote, J., Lopez, M., Encabo, G., de Torres, I. M. Effect of inflammation and benign prostatic enlargement on total and percent free serum prostatic specific antigen. Eur Urol. 2000 May; 37: 537-40

161460 Morote, J., Raventos, C. X., Lorente, J. A., Enbabo, G., Lopez, M., de Torres, I. Intraindividual variations of total and percent free serum prostatic-specific antigen levels in patients with normal digital rectal examination. Eur Urol. 1999 Aug; 36: 111-5

119710 Morrison, C., Thornhill, J., Gaffney, E. The connective tissue framework in the normal prostate, BPH and prostate cancer: analysis by scanning electron microscopy after cellular digestion. Urol Res. 2000 Oct; 28: 304-7

128880 Morrisroe, S. N., O'Connor, R. C., Nanigian, D. K., Kurzrock, E. A., Stone, A. R. Vesicostomy revisited: the best treatment for the hostile bladder in myelodysplastic children?. BJU Int. 2005 Aug; 96: 397-400

118000 Mosli, H. A., Atwa, M. A., Mahassini, S. H. Benign prostatic hyperplasia. The Saudi perspective in the year 2000. Saudi Med J. 2000 Oct; 21: 915-20

134730 Mostwin, J. L. Pathophysiology: the varieties of bladder overactivity. Urology. 2002 Nov; 60: 22-6; discussion 27

110770 Mottet, N., Bressolle, F., Delmas, V., Robert, M., Costa, P. Prostatic tissual distribution of alfuzosin in patients with benign prostatic hyperplasia following repeated oral administration. Eur Urol. 2003 Jul; 44: 101-5

118560 Moul, J. W. Prostate-specific antigen-enhanced testing and risk stratification for chemoprevention trials. Urology. 2001 Apr; 57: 174-7

151660 Mourad, M., Wallemacq, P., De Meyer, M., Brandt, D., Van Kerkhove, V., Malaise, J., Chaib Eddour, D., Lison, D. and Haufroid, V. The influence of genetic polymorphisms of cytochrome P450 3A5 and ABCB1 on starting dose- and weight-standardized tacrolimus trough concentrations after kidney transplantation in relation to renal function. Clin Chem Lab Med. 2006; 44: 1192-8

108570 Moyad, M. A. Lifestyle changes to prevent BPH: heart healthy = prostate healthy. Urol Nurs. 2003 Dec; 23: 439-41

112170 Mudiyala, R., Ahmed, A. Effect of terazosin on clinical benign prostatic hyperplasia in older adults. J Am Geriatr Soc. 2003 Mar; 51: 424-6

129980 Mueller, E. R., Latini, J., Lux, M., Kreder, K., Fitzgerald, M. P. International Prostate Symptom Scores in young asymptomatic American men. BJU Int. 2005 Mar; 95: 554-6

105020 Mueller, N. M., Mueller, E. J. KTP photoselective laser vaporization of the prostate: indications, procedure, and nursing implications. Urol Nurs. 2004 Oct; 24: 373-8; quiz 379

119360 Mueller-Lisse, U. G., Frimberger, M., Schneede, P., Heuck, A. F., Muschter, R., Reiser, M. F. Perioperative prediction by MRI of prostate volume six to twelve months after laser-induced thermotherapy of benign prostatic hyperplasia. J Magn Reson Imaging. 2001 Jan; 13: 64-8

114930 Mueller-Lisse, U. G., Mueller-Lisse, U. L., Haller, S., Schneede, P., Scheidler, J. E., Schmeller, N., Hofstetter, A. G., Reiser, M. F. Likelihood of prostate cancer based on prostate-specific antigen density by MRI: retrospective analysis. J Comput Assist Tomogr. 2002 May-Jun; 26: 432-7

153910 Mueller-Lisse, U. G., Mueller-Lisse, U. L., Hinterberger, J., Schneede, P., Meindl, T. and Reiser, M. F. Multidetector-row computed tomography (MDCT) in patients with a history of previous urothelial cancer or painless macroscopic haematuria. Eur Radiol. 2007; 17: 2794-803

165860 Mugiya, S., Ohhira, T., Un-No, T., Takayama, T., Suzuki, K., Fujita, K. Endoscopic management of upper urinary tract disease using a 200-microm holmium laser fiber: initial experience in Japan. Urology. 1999 Jan; 53: 60-4

102700 Mukherjee, R., Edwards, J., Underwood, M. A., Bartlett, J. M. The relationship between angiogenesis and cyclooxygenase-2 expression in prostate cancer. BJU Int. 2005 Jul; 96: 62-6

125930 Mulhall, J. P., Guhring, P., Parker, M., Hopps, C. Assessment of the impact of sildenafil citrate on lower urinary tract symptoms in men with erectile dysfunction. J Sex Med. 2006 Jul; 3: 662-7

127080 Mulholland, T. L., Huynh, P. N., Huang, R. R., Wong, C., Diokno, A. C., Peters, K. M. Urinary incontinence after radical retropubic prostatectomy is not related to patient body mass index. Prostate Cancer Prostatic Dis. 2006; 9: 153-9

100710 Mullan, R. J., Bergstralh, E. J., Farmer, S. A., Jacobson, D. J., Hebbring, S. J., Cunningham, J. M., Thibodeau, S. N., Lieber, M. M., Jacobsen, S. J., Roberts, R. O. Growth factor, cytokine, and vitamin D receptor polymorphisms and risk of benign prostatic hyperplasia in a community-based cohort of men. Urology. 2006 Feb; 67: 300-5

124200 Muller, A., Mulhall, J. P. Sexual dysfunction in the patient with prostatitis. Curr Opin Urol. 2005 Nov; 15: 404-9

123280 Muller, A., Mulhall, J. P. Sexual dysfunction in the patient with prostatitis. Curr Urol Rep. 2006 Jul; 7: 307-12

152120 Muller, I., Urban, K., Pantel, K. and Schwarzenbach, H. Comparison of genetic alterations detected in circulating microsatellite DNA in blood plasma samples of patients with prostate cancer and benign prostatic hyperplasia. Ann N Y Acad Sci. 2006; 1075: 222-9

157130 Mullins, C., Lucia, M. S., Hayward, S. W., Lee, J. Y., Levitt, J. M., Lin, V. K., Liu, B. C., Chinnaiyan, A. M., Rubin, M. A., Slawin, K., Star, R. A. and Getzenberg, R. H. A comprehensive approach toward novel serum biomarkers for benign prostatic hyperplasia: the MPSA Consortium. J Urol. 2008; 179: 1243-56

119310 Mumtaz, F., Dashwood, M., Thompson, C., Khan, M., Naylor, A., Mikhailidis, D., Morgan, R. Autoradiographic localisation and contractile properties of prostatic endothelin receptors in patients with bladder outlet obstruction. Eur Urol. 2001 Jan; 39: 48-56

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

111000 Munoz, E., Gomez, F., Paz, J. I., Casado, I., Silva, J. M., Corcuera, M. T., Alonso, M. J. Ki-67 immunolabeling in pre-malignant lesions and carcinoma of the prostate. Histological correlation and prognostic evaluation. Eur J Histochem. 2003; 47: 123-8

102310 Muntener, M., Aellig, S., Kuttel, R., Gehrlach, C., Hauri, D., Strebel, R. T. Peri-operative morbidity and changes in symptom scores after transurethral prostatectomy in Switzerland: results of an independent assessment of outcome. BJU Int. 2006 Aug; 98: 381-3

126910 Muntener, M., Schurch, B., Wefer, B., Reitz, A. Systemic nitric oxide augmentation leads to a rapid decrease of the bladder outlet resistance in healthy men. Eur Urol. 2006 Jul; 50: 112-7; discussion 117-8

118800 Murai, M., Tachibana, M., Miki, M., Shiozawa, H., Hirao, Y., Okajima, E. Transurethral needle ablation of the prostate: an initial Japanese clinical trial. Int J Urol. 2001 Mar; 8: 99-105

113510 Muramoto, S., Uematsu, H., Kimura, H., Ishimori, Y., Sadato, N., Oyama, N., Matsuda, T., Kawamura, Y., Yonekura, Y., Okada, K., Itoh, H. Differentiation of prostate cancer from benign prostate hypertrophy using dual-echo dynamic contrast MR imaging. Eur J Radiol. 2002 Oct; 44: 52-8

150630 Muren, L. P., Redpath, A. T., McLaren, D., Rorvik, J., Halvorsen, O. J., Hostmark, J., Bakke, A., Thwaites, D. and Dahl, O. A concomitant tumour boost in bladder irradiation: patient suitability and the potential of intensity-modulated radiotherapy. Radiother Oncol. 2006; 80: 98-105

153600 Murphy, A. J., Hughes, C. A., Barrett, C., Magee, H., Loftus, B., O'Leary, J. J. and Sheils, O. Low-level TOP2A amplification in prostate cancer is associated with HER2 duplication, androgen resistance, and decreased survival. Cancer Res. 2007; 67: 2893-8

154630 Murphy, P. S., Mills, I. W., Crossland, A. and Patel, A. The impact of targeted training, a dedicated protocol and on-site training material in reducing observer variability of prostate and transition zone dimensions measured by transrectal ultrasonography, in multicentre multinational clinical trials of men wi. BJU Int. 2007; 100: 102-6

117130 Murray, E., Davis, H., Tai, S. S., Coulter, A., Gray, A., Haines, A. Randomised controlled trial of an interactive multimedia decision aid on benign prostatic hypertrophy in primary care. BMJ. 2001 Sep 1; 323: 493-6

102850 Murtagh, J., Foerster, V. Photoselective vaporization for benign prostatic hyperplasia. Issues Emerg Health Technol. 2006 Dec; : 4-Jan

152950 Murtola, T. J., Tammela, T. L., Maattanen, L., Hakama, M. and Auvinen, A. Prostate cancer risk among users of finasteride and alpha-blockers - a population based case-control study. Eur J Cancer. 2007; 43: 775-81

163350 Muruve, N. A., Steinbecker, K. M., Luger, A. M. Are wedge biopsies of cadaveric kidneys obtained at procurement reliable?. Transplantation. 2000 Jun 15; 69: 2384-8

109380 Muschter, R. Conductive heat: hot water-induced thermotherapy for ablation of prostatic tissue. J Endourol. 2003 Oct; 17: 609-16

109410 Muschter, R. Free-beam and contact laser coagulation. J Endourol. 2003 Oct; 17: 579-85

114570 Muschter, R., Gilling, A. P. Lasers for median lobe hyperplasia. Curr Urol Rep. 2001 Aug; 2: 306-10

120640 Muschter, R., Schorsch, I., Danielli, L., Russel, C., Timoney, A., Yachia, D., Jolkowsky, E., Matalon, G., Roder, T., Nordling, J. Transurethral water-induced thermotherapy for the treatment of benign prostatic hyperplasia: a prospective multicenter clinical trial. J Urol. 2000 Nov; 164: 1565-9

102230 Mutaguchi, K., Matsubara, A., Kajiwara, M., Hanada, M., Mizoguchi, H., Ohara, S., Yasumoto, H., Usui, T. Transurethral ethanol injection for prostatic obstruction: an excellent treatment strategy for persistent urinary retention. Urology. 2006 Aug; 68: 307-11

109190 Mutaguchi, K., Yasumoto, H., Mita, K., Matsubara, A., Shiina, H., Igawa, M., Dahiya, R., Usui, T. Restoration of insulin-like growth factor binding protein-related protein 1 has a tumor-suppressive activity through induction of apoptosis in human prostate cancer. Cancer Res. 2003 Nov 15; 63: 7717-23

109990 Mutlu, N., Turkeri, L., Emerk, K. Analytical and clinical evaluation of a new urinary tumor marker: bladder tumor fibronectin in diagnosis and follow-up of bladder cancer. Clin Chem Lab Med. 2003 Aug; 41: 1069-74

103040 Muzzonigro, G. Tamsulosin in the treatment of LUTS/BPH: an Italian multicentre trial. Arch Ital Urol Androl. 2005 Mar; 77: 13-7

106660 Muzzonigro, G., Milanese, G., Minardi, D., Yehia, M., Galosi, A. B., Dellabella, M. Safety and efficacy of transurethral resection of prostate glands up to 150 ml: a prospective comparative study with 1 year of followup. J Urol. 2004 Aug; 172: 611-5

104310 Myatt, A., Hill, S. J. Trypsin stimulates the phosphorylation of p42,44 mitogen-activated protein kinases via the proteinase-activated receptor-2 and protein kinase C epsilon in human cultured prostate stromal cells. Prostate. 2005 Jul 1; 64: 175-85

164970 Myers, D. L., Arya, L. A., Friedman, J. H. Is urinary incontinence different in women with Parkinson's disease?. Int Urogynecol J Pelvic Floor Dysfunct. 1999; 10: 188-91

121880 Myers, R. P. Structure of the adult prostate from a clinician's standpoint. Clin Anat. 2000; 13: 214-5

157100 Mylona, E., Zarogiannos, A., Nomikos, A., Giannopoulou, I., Nikolaou, I., Zervas, A. and Nakopoulou, L. Prognostic value of microsatellite instability determined by immunohistochemical staining of hMSH2 and hMSH6 in urothelial carcinoma of the bladder. Apmis. 2008; 116: 59-65

134850 Mylotte, J. M., Tayara, A., Goodnough, S. Epidemiology of bloodstream infection in nursing home residents: evaluation in a large cohort from multiple homes. Clin Infect Dis. 2002 Dec 15; 35: 1484-90

156480 Mynderse, L. A., Larson, B., Huidobro, C., Meyer, J. J., Busel, D., Hanson, D. P. and Larson, T. Characterizing TUNA ablative treatments of the prostate for benign hyperplasia with gadolinium-enhanced magnetic resonance imaging. J Endourol. 2007; 21: 1361-6

110490 Mynderse, L. A., Larson, T. R. Transurethral hot water balloon thermotherapy for benign prostatic hyperplasia. Curr Urol Rep. 2003 Aug; 4: 287-91

101620 Myzak, M. C., Hardin, K., Wang, R., Dashwood, R. H., Ho, E. Sulforaphane inhibits histone deacetylase activity in BPH-1, LnCaP and PC-3 prostate epithelial cells. Carcinogenesis. 2006 Apr; 27: 811-9

160910 Na, Y. J., Guo, Y. L., Gu, F. L. Clinical comparison of selective and non-selective alpha 1A-adrenoceptor antagonists for bladder outlet obstruction associated with benign prostatic hyperplasia: studies on tamsulosin and terazosin in Chinese patients. The Chinese Tamsulosin Study Group. J Med. 1998; 29: 289-304

131540 Naber, K. G., Allin, D. M., Clarysse, L., Haworth, D. A., James, I. G., Raini, C., Schneider, H., Wall, A., Weitz, P., Hopkins, G., Ankel-Fuchs, D. Gatifloxacin 400 mg as a single shot or 200 mg once daily for 3 days is as effective as ciprofloxacin 250 mg twice daily for the treatment of patients with uncomplicated urinary tract infections. Int J Antimicrob Agents. 2004 Jun; 23: 596-605

132090 Naber, K. G., Bartnicki, A., Bischoff, W., Hanus, M., Milutinovic, S., van Belle, F., Schonwald, S., Weitz, P., Ankel-Fuchs, D. Gatifloxacin 200 mg or 400 mg once daily is as effective as ciprofloxacin 500 mg twice daily for the treatment of patients with acute pyelonephritis or complicated urinary tract infections. Int J Antimicrob Agents. 2004 Mar; 23 Suppl 1: S41-53

137810 Nabi, G., Ansari, M. S., Singh, I., Sharma, M. C., Dogra, P. N. Primary squamous cell carcinoma of the prostate: a rare clinicopathological entity. Report of 2 cases and review of literature. Urol Int. 2001; 66: 216-9

132960 Nabi, G., Sadiq, M. Multiple bilateral cannon-ball lung metastases from carcinoma of the prostate: orchiedectomy induced remission. Med J Malaysia. 2002 Mar; 57: 111-3

153170 Nadal, M., Pera, G., Pujadas, J., Abril, J., Gonzalez, L., Aguilo, F., Condom, E., Gomez-Zaera, M. and Nunes, V. Aneuploidy of chromosome Y in prostate tumors and seminal vesicles: a possible sign of aging rather than an indicator of carcinogenesis?. Mol Carcinog. 2007; 46: 543-52

107480 Naderi, N., Mochtar, C. A., de la Rosette, J. J. Real life practice in the management of benign prostatic hyperplasia. Curr Opin Urol. 2004 Jan; 14: 41-4

107640 Nadler, R. B., Blunt, L. W. , Jr., User, H. M., Vallancien, G. Preperitoneal laparoscopic simple prostatectomy. Urology. 2004 Apr; 63: 778-9

121680 Nadler, R. B., Koch, A. E., Calhoun, E. A., Campbell, P. L., Pruden, D. L., Bennett, C. L., Yarnold, P. R., Schaeffer, A. J. IL-1beta and TNF-alpha in prostatic secretions are indicators in the evaluation of men with chronic prostatitis. J Urol. 2000 Jul; 164: 214-8

106150 Nadu, A., Mabjeesh, N. J., Ben-Chaim, J., Kaver, I., Matzkin, H., Greenstein, A. Are indications for prostatectomy in octogenarians the same as for younger men?. Int Urol Nephrol. 2004; 36: 47-50

155380 Naesens, M., de Loor, H., Vanrenterghem, Y. and Kuypers, D. R. The impact of renal allograft function on exposure and elimination of mycophenolic acid (MPA) and its metabolite MPA 7-O-glucuronide. Transplantation. 2007; 84: 362-73

156300 Nag, S., Shi, P., Liu, B., Gupta, N., Bahnson, R. R. and Wang, J. Z. Comparison of real-time intraoperative ultrasound-based dosimetry with postoperative computed tomography-based dosimetry for prostate brachytherapy. Int J Radiat Oncol Biol Phys. 2008; 70: 311-7

113480 Nagakawa, O., Furuya, Y., Fujiuchi, Y., Fuse, H. Serum pro-gastrin-releasing peptide (31-98) in benign prostatic hyperplasia and prostatic carcinoma. Urology. 2002 Sep; 60: 527-30

101600 Nagakawa, O., Yamagishi, T., Akashi, T., Nagaike, K., Fuse, H. Serum hepatocyte growth factor activator inhibitor type I (HAI-I) and type 2 (HAI-2) in prostate cancer. Prostate. 2006 Apr 1; 66: 447-52

105840 Nakai, H., Yamanishi, T., Yasuda, K., Kitahara, S., Suzuki, T. Correlation between lower urinary tract symptoms and urethral function in benign prostatic hyperplasia. Neurourol Urodyn. 2004; 23: 618-22

132310 Nakamura, M., Shinozaki, T., Taniguchi, N., Koibuchi, H., Momoi, M., Itoh, K. Simultaneous voiding cystourethrography and voiding urosonography reveals utility of sonographic diagnosis of vesicoureteral reflux in children. Acta Paediatr. 2003 Dec; 92: 1422-6

109710 Nakamura, T., Scorilas, A., Stephan, C., Jung, K., Soosaipillai, A. R., Diamandis, E. P. The usefulness of serum human kallikrein 11 for discriminating between prostate cancer and benign prostatic hyperplasia. Cancer Res. 2003 Oct 1; 63: 6543-6

160900 Nakano, K., Fukabori, Y., Itoh, N., Lu, W., Kan, M., McKeehan, W. L., Yamanaka, H. Androgen-stimulated human prostate epithelial growth mediated by stromal-derived fibroblast growth factor-10. Endocr J. 1999 Jun; 46: 405-13

155080 Nakashima, K., Fujiyama, C., Tokuda, Y., Satoh, Y., Nishimura, K., Nakashima, N. and Uozumi, J. Oncologic assessment of hand-assisted retroperitoneoscopic nephroureterectomy for urothelial tumors of the upper tract: comparison with conventional open nephroureterectomy. J Endourol. 2007; 21: 583-8

135110 Nakatani, T., Sugimura, K., Naganuma, T., Kamikawa, S., Sugimoto, T. Metastatic urinary bladder tumor from extragonadal germ cell tumor: a case report. Oncol Rep. 2002 Nov-Dec; 9: 1209-11

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

110190 Nakayama, M., Bennett, C. J., Hicks, J. L., Epstein, J. I., Platz, E. A., Nelson, W. G., De Marzo, A. M. Hypermethylation of the human glutathione S-transferase-pi gene (GSTP1) CpG island is present in a subset of proliferative inflammatory atrophy lesions but not in normal or hyperplastic epithelium of the prostate: a detailed study using laser-capture micr. Am J Pathol. 2003 Sep; 163: 923-33

108420 Nakayama, M., Gonzalgo, M. L., Yegnasubramanian, S., Lin, X., De Marzo, A. M., Nelson, W. G. GSTP1 CpG island hypermethylation as a molecular biomarker for prostate cancer. J Cell Biochem. 2004 Feb 15; 91: 540-52

135100 Nam, Y. S., Wexner, S. D. Clinical value of prophylactic ureteral stent indwelling during laparoscopic colorectal surgery. J Korean Med Sci. 2002 Oct; 17: 633-5

161280 Namiki, K., Shiozawa, H., Tsuzuki, M., Mamiya, Y., Matsumoto, T., Miki, M. Efficacy of transurethral needle ablation of the prostate for the treatment of benign prostatic hyperplasia. Int J Urol. 1999 Jul; 6: 341-5

126180 Namiki, S., Ishidoya, S., Saito, S., Satoh, M., Tochigi, T., Ioritani, N., Yoshimura, K., Terai, A., Arai, Y. Natural history of voiding function after radical retropubic prostatectomy. Urology. 2006 Jul; 68: 142-7

165240 Namimoto, T., Yamashita, Y., Mitsuzaki, K., Nakayama, Y., Tang, Y., Takahashi, M. Measurement of the apparent diffusion coefficient in diffuse renal disease by diffusion-weighted echo-planar MR imaging. J Magn Reson Imaging. 1999 Jun; 9: 832-7

114260 Nanni, S., Narducci, M., Della Pietra, L., Moretti, F., Grasselli, A., De Carli, P., Sacchi, A., Pontecorvi, A., Farsetti, A. Signaling through estrogen receptors modulates telomerase activity in human prostate cancer. J Clin Invest. 2002 Jul; 110: 219-27

100570 Nanni, S., Priolo, C., Grasselli, A., D'Eletto, M., Merola, R., Moretti, F., Gallucci, M., De Carli, P., Sentinelli, S., Cianciulli, A. M., Mottolese, M., Carlini, P., Arcelli, D., Helmer-Citterich, M., Gaetano, C., Loda, M., Pontecorvi, A Epithelial-restricted gene profile of primary cultures from human prostate tumors: a molecular approach to predict clinical behavior of prostate cancer. Mol Cancer Res. 2006 Feb; 4: 79-92

160300 Nap, M., van der Kwast, T. M. Immunohistochemical characterization of 53 monoclonal antibodies to prostate-specific antigen. Tumour Biol. 1999; 20 Suppl 1: 38-42

120120 Naqvi, S. A., Rizvi, S. A., Hasan, A. S. High-energy microwave thermotherapy in patients in urinary retention. J Endourol. 2000 Oct; 14: 677-81

118350 Narayan, P., Bruskewitz, R. A comparison of two phase III multicenter, placebo-controlled studies of tamsulosin in BPH. Adv Ther. 2000 Nov-Dec; 17: 287-300

110600 Narayan, P., Evans, C. P., Moon, T. Long-term safety and efficacy of tamsulosin for the treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia. J Urol. 2003 Aug; 170: 498-502

118910 Narayan, P., Lepor, H. Long-term, open-label, phase III multicenter study of tamsulosin in benign prostatic hyperplasia. Urology. 2001 Mar; 57: 466-70

140630 Narayan, P., O'Leary, M. P., Davidai, G. Early efficacy of tamsulosin versus terazosin in the treatment of men with benign prostatic hyperplasia: a randomized, open-label trial. J appl Res. 2005; 5: 237-245

157330 Nargund, V. H. and Grey, A. D. Tamsulosin MR and OCAS (modified release and oral controlled absorption system): current therapeutic uses. Expert Opin Pharmacother. 2008; 9: 813-24

105820 Narita, S., Tsuchiya, N., Wang, L., Matsuura, S., Ohyama, C., Satoh, S., Sato, K., Ogawa, O., Habuchi, T., Kato, T. Association of lipoprotein lipase gene polymorphism with risk of prostate cancer in a Japanese population. Int J Cancer. 2004 Dec 10; 112: 872-6

163600 Naruse, K., Fujieda, M., Miyazaki, E., Hayashi, Y., Toi, M., Fukui, T., Kuroda, N., Hiroi, M., Kurashige, T., Enzan, H. An immunohistochemical study of developing glomeruli in human fetal kidneys. Kidney Int. 2000 May; 57: 1836-46

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

133860 Nash, R. A., Bowen, J. D., McSweeney, P. A., Pavletic, S. Z., Maravilla, K. R., Park, M. S., Storek, J., Sullivan, K. M., Al-Omaishi, J., Corboy, J. R., DiPersio, J., Georges, G. E., Gooley, T. A., Holmberg, L. A., LeMaistre, C. F., Ryan, K High-dose immunosuppressive therapy and autologous peripheral blood stem cell transplantation for severe multiple sclerosis. Blood. 2003 Oct 1; 102: 2364-72

153690 Naslund, M. J. and Miner, M. A review of the clinical efficacy and safety of 5alpha-reductase inhibitors for the enlarged prostate. Clin Ther. 2007; 29: 17-25

103180 Naslund, M. J., Carlson, A. M., Williams, M. J. A cost comparison of medical management and transurethral needle ablation for treatment of benign prostatic hyperplasia during a 5-year period. J Urol. 2005 Jun; 173: 2090-3; discussion 2093

152130 Naslund, M. J., Costa, F. J. and Miner, M. M. Managing enlarged prostate in primary care. Int J Clin Pract. 2006; 60: 1609-15

155270 Naslund, M. J., Gilsenan, A. W., Midkiff, K. D., Bown, A., Wolford, E. T. and Wang, J. Prevalence of lower urinary tract symptoms and prostate enlargement in the primary care setting. Int J Clin Pract. 2007; 61: 1437-45

108330 Naspro, R., Freschi, M., Salonia, A., Guazzoni, G., Girolamo, V., Colombo, R., Scattoni, V., Rigatti, P., Montorsi, F. Holmium laser enucleation versus transurethral resection of the prostate. Are histological findings comparable?. J Urol. 2004 Mar; 171: 1203-6

101420 Naspro, R., Salonia, A., Cestari, A., Guazzoni, G., Suardi, N., Colombo, R., Rigatti, P., Montorsi, F. A critical analysis of laser prostatectomy in the management of benign prostatic hyperplasia. BJU Int. 2005 Oct; 96: 736-9

104940 Naspro, R., Salonia, A., Colombo, R., Cestari, A., Guazzoni, G., Rigatti, P., Montorsi, F. Update of the minimally invasive therapies for benign prostatic hyperplasia. Curr Opin Urol. 2005 Jan; 15: 49-53

116540 Nassis, L., Frauman, A. G., Ohishi, M., Zhuo, J., Casley, D. J., Johnston, C. I., Fabiani, M. E. Localization of angiotensin-converting enzyme in the human prostate: pathological expression in benign prostatic hyperplasia. J Pathol. 2001 Dec; 195: 571-9

111340 Nawrocki, J. Heat versus drugs in the treatment of benign prostatic hyperplasia. BJU Int. 2003 May; 91: 732

107960 Naya, Y., Fritsche, H. A., Bhadkamkar, V. A., Mikolajczyk, S. D., Rittenhouse, H. G., Babaian, R. J. Volume-based evaluation of serum assays for new prostate-specific antigen isoforms in the detection of prostate cancer. Urology. 2004 Mar; 63: 492-8

117140 Naz, R. K., Herness, E. A. Prostate-specific genes: present status and future direction. Front Biosci. 2001 Sep 1; 6: D1083-8

106760 Naz, S., Ahmad, S., Ghafoor, F., Butt, N. S., Akhtar, M. W. Free and total prostate specific antigen in benign prostate hyperplasia and prostate cancer. J Coll Physicians Surg Pak. 2004 Feb; 14: 69-71

109110 Neal, D. E., Hegarty, P. Key questions in benign prostatic hyperplasia. Practitioner. 2003 Nov; 247: 886-9

105010 Negri, E., Pelucchi, C., Talamini, R., Montella, M., Gallus, S., Bosetti, C., Franceschi, S., La Vecchia, C. Family history of cancer and the risk of prostate cancer and benign prostatic hyperplasia. Int J Cancer. 2005 Apr 20; 114: 648-52

102160 Nehra, A. Selecting therapy for maintaining sexual function in patients with benign prostatic hyperplasia. BJU Int. 2005 Aug; 96: 237-43

152090 Neill, M. G., Gilling, P. J., Kennett, K. M., Frampton, C. M., Westenberg, A. M., Fraundorfer, M. R. and Wilson, L. C. Randomized trial comparing holmium laser enucleation of prostate with plasmakinetic enucleation of prostate for treatment of benign prostatic hyperplasia. Urology. 2006; 68: 1020-4

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

155230 Neill, M., Studer, G., Le, L., McLean, M., Yeung, I., Pond, G. and Crook, J. M. The nature and extent of urinary morbidity in relation to prostate brachytherapy urethral dosimetry. Brachytherapy. 2007; 6: 173-9

154570 Nelson, M. R., Katlama, C., Montaner, J. S., Cooper, D. A., Gazzard, B., Clotet, B., Lazzarin, A., Schewe, K., Lange, J., Wyatt, C., Curtis, S., Chen, S. S., Smith, S., Bischofberger, N. and Rooney, J. F. The safety of tenofovir disoproxil fumarate for the treatment of HIV infection in adults: the first 4 years. Aids. 2007; 21: 1273-81

164670 Netea, M. G., van Der Meer, J. W., Meis, J. F., Kullberg, B. J. Fas-FasL interactions modulate host defense against systemic Candida albicans infection. J Infect Dis. 1999 Nov; 180: 1648-55

160360 Netto, N. R., Jr., De Lima, M. L., Lucena, R., Lavoura, N. S., Cortado, P. L., Netto, M. R. Is transurethral vaporization a remake of transurethral resection of the prostate?. J Endourol. 1999 Oct; 13: 591-4

128730 Neuhaus, J., Pfeiffer, F., Wolburg, H., Horn, L. C., Dorschner, W. Alterations in connexin expression in the bladder of patients with urge symptoms. BJU Int. 2005 Sep; 96: 670-6

106360 Neuhouser, M. L., Kristal, A. R., Penson, D. F. Steroid hormones and hormone-related genetic and lifestyle characteristics as risk factors for benign prostatic hyperplasia: review of epidemiologic literature. Urology. 2004 Aug; 64: 201-11

102830 Ng, C. K., Gonzalez, R. R., Te, A. E. Refractory overactive bladder in men: update on novel therapies. Curr Urol Rep. 2006 Nov; 7: 456-61

128040 Ng, C. S., Ulchaker, J. C., Kursh, E. D. Prospective evaluation of interstitial laser coagulation of the prostate: importance of surgical technique and patient selection. J Endourol. 2005 Oct; 19: 1012-5

156180 Ngugi, P. M. and Byakika, B. Histology of specimens taken by prostatectomy and needle biopsy. East Afr Med J. 2007; 84: 363-6

156800 Ngugi, P. M. and Saula, P. W. Open simple prostatectomy and blood transfusion in Nairobi. East Afr Med J. 2007; 84: S12-23

135590 Nguyen, H. D., Tan, Y. H., Wong, M. Y. Percutaneous nephrolithotomy in the management of complex upper urinary tract calculi: the Singapore General Hospital experience. Ann Acad Med Singapore. 2002 Jul; 31: 516-9

153540 Nicholls, S. J., Tuzcu, E. M., Hsu, A., Wolski, K., Sipahi, I., Schoenhagen, P., Crowe, T., Kapadia, S. R., Hazen, S. L. and Nissen, S. E. Comparison of coronary atherosclerotic volume in patients with glomerular filtration rates < or = 60 versus > 60 ml/min/1.73 m(2): a meta-analysis of intravascular ultrasound studies. Am J Cardiol. 2007; 99: 813-6

164960 Nicholson, M. L., Bailey, E., Williams, S., Harris, K. P., Furness, P. N. Computerized histomorphometric assessment of protocol renal transplant biopsy specimens for surrogate markers of chronic rejection. Transplantation. 1999 Jul 27; 68: 236-41

163820 Nicholson, M. L., Windmill, D. C., Horsburgh, T., Harris, K. P. Influence of allograft size to recipient body-weight ratio on the long-term outcome of renal transplantation. Br J Surg. 2000 Mar; 87: 314-9

138680 Nickel, C. J. Prostatitis syndromes: an update for urologic practice. Can J Urol. 2000 Oct; 7: 1091-8

133780 Nickel, J. C. Classification and diagnosis of prostatitis: a gold standard?. Andrologia. 2003 Jun; 35: 160-7

156550 Nickel, J. C. Inflammation and benign prostatic hyperplasia. Urol Clin North Am. 2008; 35: 109-15; vii

123300 Nickel, J. C. The economics of medical therapy for lower urinary tract symptoms associated with benign prostatic hyperplasia. Curr Urol Rep. 2006 Jul; 7: 282-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

124010 Nickel, J. C. The overlapping lower urinary tract symptoms of benign prostatic hyperplasia and prostatitis. Curr Opin Urol. 2006 Jan; 16: 10-May

110020 Nickel, J. C. The use of alpha1-adrenoceptor antagonists in lower urinary tract symptoms: beyond benign prostatic hyperplasia. Urology. 2003 Sep; 62: 34-41

157240 Nickel, J. C. and Roehrborn, C. G. Optimizing the management of prostate diseases: prostatitis and benign prostatic hyperplasia. Introduction. BJU Int. 2008; 101 Suppl 3: 1

119230 Nickel, J. C., Downey, J., Hunter, D., Clark, J. Prevalence of prostatitis-like symptoms in a population based study using the National Institutes of Health chronic prostatitis symptom index. J Urol. 2001 Mar; 165: 842-5

137890 Nickel, J. C., Downey, J., Johnston, B., Clark, J. Predictors of patient response to antibiotic therapy for the chronic prostatitis/chronic pelvic pain syndrome: a prospective multicenter clinical trial. J Urol. 2001 May; 165: 1539-44

107250 Nickel, J. C., Downey, J., Pontari, M. A., Shoskes, D. A., Zeitlin, S. I. A randomized placebo-controlled multicentre study to evaluate the safety and efficacy of finasteride for male chronic pelvic pain syndrome (category IIIA chronic nonbacterial prostatitis). BJU Int. 2004 May; 93: 991-5

160450 Nickel, J. C., Downey, J., Young, I., Boag, S. Asymptomatic inflammation and/or infection in benign prostatic hyperplasia. BJU Int. 1999 Dec; 84: 976-81

126520 Nickel, J. C., Elhilali, M., Emberton, M., Vallancien, G. The beneficial effect of alfuzosin 10 mg once daily in 'real-life' practice on lower urinary tract symptoms (LUTS), quality of life and sexual dysfunction in men with LUTS and painful ejaculation. BJU Int. 2006 Jun; 97: 1242-6

104150 Nickel, J. C., Elhilali, M., Vallancien, G. Benign prostatic hyperplasia (BPH) and prostatitis: prevalence of painful ejaculation in men with clinical BPH. BJU Int. 2005 Mar; 95: 571-4

102380 Nickel, J. C., Herschorn, S., Corcos, J., Donnelly, B., Drover, D., Elhilali, M., Goldenberg, L., Grantmyre, J., Laroche, B., Norman, R., Piercy, B., Psooy, K., Steinhoff, G., Trachtenberg, J., Saad, F., Tanguay, S. Canadian guidelines for the management of benign prostatic hyperplasia. Can J Urol. 2005 Jun; 12: 2677-83

107050 Nickel, J. C., Saad, F. The American Urological Association 2003 guideline on management of benign prostatic hyperplasia: a Canadian opinion. Can J Urol. 2004 Apr; 11: 2186-93

126290 Nickel, J. C., Shoskes, D., Wang, Y., Alexander, R. B., Fowler, J. E. , Jr., Zeitlin, S., O'Leary, M. P., Pontari, M. A., Schaeffer, A. J., Landis, J. R., Nyberg, L., Kusek, J. W., Propert, K. J. How does the pre-massage and post-massage 2-glass test compare to the Meares-Stamey 4-glass test in men with chronic prostatitis/chronic pelvic pain syndrome?. J Urol. 2006 Jul; 176: 119-24

163920 Nickeleit, V., Hirsch, H. H., Zeiler, M., Gudat, F., Prince, O., Thiel, G., Mihatsch, M. J. BK-virus nephropathy in renal transplants-tubular necrosis, MHC-class II expression and rejection in a puzzling game. Nephrol Dial Transplant. 2000 Mar; 15: 324-32

133320 Nicolosi, A., Glasser, D. B., Moreira, E. D., Villa, M. Prevalence of erectile dysfunction and associated factors among men without concomitant diseases: a population study. Int J Impot Res. 2003 Aug; 15: 253-7

134510 Nicolosi, A., Moreira, E. D. , Jr., Shirai, M., Bin Mohd Tambi, M. I., Glasser, D. B. Epidemiology of erectile dysfunction in four countries: cross-national study of the prevalence and correlates of erectile dysfunction. Urology. 2003 Jan; 61: 201-6

129340 Nieder, A. M., Sved, P. D., Stein, J. P., Skinner, D. G., Soloway, M. S. Cystoprostatectomy and orthotopic ileal neobladder reconstruction for management of bacille Calmette Guerin-induced bladder contractures. Urology. 2005 May; 65: 909-12

139220 Nielsen, J. B., Frokiaer, J., Rehling, M., Jorgensen, T. M., Djurhuus, J. C. A 14-year follow-up of conservative treatment for vesico-ureteric reflux. BJU Int. 2000 Sep; 86: 502-7

161810 Nielsen, J. D., Gram, J., Holm-Nielsen, A., Jespersen, J. Bleeding and activation of coagulation during and after transurethral prostatectomy: importance of the acute-phase response and prostate specific antigen?. BJU Int. 1999 Jun; 83: 990-5

114110 Niemela, P., Lovgren, J., Karp, M., Lilja, H., Pettersson, K. Sensitive and specific enzymatic assay for the determination of precursor forms of prostate-specific antigen after an activation step. Clin Chem. 2002 Aug; 48: 1257-64

102890 Nieminen, T., Tammela, T. L., Koobi, T., Kahonen, M. The effects of tamsulosin and sildenafil in separate and combined regimens on detailed hemodynamics in patients with benign prostatic enlargement. J Urol. 2006 Dec; 176: 2551-6

153900 Nikoleishvili, D., Pertia, A., Tsintsadze, O., Gogokhia, N. and Chkhotua, A. Down-regulation of p27(Kip 1) cyclin-dependent kinase inhibitor in prostate cancer: distinct expression in various prostate cells associating with tumor stage and grades. Georgian Med News. 2007; : 34-8

103790 Nishimura, K., Yamaguchi, Y., Yamanaka, M., Ichikawa, Y., Nagano, S. Climacteric-like disorders in prostate cancer patients treated with LHRH agonists. Arch Androl. 2005 Jan-Feb; 51: 41-8

101290 Nishino, Y., Masue, T., Miwa, K., Takahashi, Y., Ishihara, S., Deguchi, T. Comparison of two alpha1-adrenoceptor antagonists, naftopidil and tamsulosin hydrochloride, in the treatment of lower urinary tract symptoms with benign prostatic hyperplasia: a randomized crossover study. BJU Int. 2006 Apr; 97: 747-51, discussion 751

106700 Nishizawa, K., Kobayashi, T., Mitsumori, K., Watanabe, J., Ogura, K. Intermittent catheterization time required after interstitial laser coagulation of the prostate. Urology. 2004 Jul; 64: 79-83

110300 Nishizawa, K., Kobayashi, T., Watanabe, J., Ogura, K. Interstitial laser coagulation of the prostate for management of acute urinary retention. J Urol. 2003 Sep; 170: 879-82

110950 Nistal, M., Castillo, M. C., Regadera, J., Garcia-Cabezas, M. A. Adenomatous hyperplasia of the rete testis. A review and report of new cases. Histol Histopathol. 2003 Jul; 18: 741-52

100950 Nithipatikom, K., Isbell, M. A., See, W. A., Campbell, W. B. Elevated 12- and 20-hydroxyeicosatetraenoic acid in urine of patients with prostatic diseases. Cancer Lett. 2006 Feb 28; 233: 219-25

156880 Nix, J. W. and Carson, C. C. Medical management of benign prostatic hypertrophy. Can J Urol. 2007; 14 Suppl 1: 53-7

128970 Nmorsi, O., Ukwandu, N., Egwungenya, O., Obhiemi, N. Evaluation of CD4(+)/CD8(+) status and urinary tract infections associated with urinary schistosomiasis among some rural Nigerians. Afr Health Sci. 2005 Jun; 5: 126-30

113090 Noble, S. M., Coast, J., Brookes, S., Neal, D. E., Abrams, P., Peters, T. J., Donovan, J. L. Transurethral prostate resection, noncontact laser therapy or conservative management in men with symptoms of benign prostatic enlargement? An economic evaluation. J Urol. 2002 Dec; 168: 2476-82

150950 Noguchi, K., Suzuki, K., Teranishi, J., Kondo, K., Kishida, T., Saito, K., Uemura, H. and Kubota, Y. Recovery of serum prostate specific antigen value after interruption of antiandrogen therapy with allylestrenol for benign prostatic hyperplasia. Hinyokika Kiyo. 2006; 52: 527-30

156710 Noguera, R. S. and Rodriguez, R. C. Open adenomectomy: past, present and future. Curr Opin Urol. 2008; 18: 34-40

164710 Noh, P. H., Cooper, C. S., Winkler, A. C., Zderic, S. A., Snyder, H. M., 3rd., Canning, D. A. Prognostic factors for long-term renal function in boys with the prune-belly syndrome. J Urol. 1999 Oct; 162: 1399-401

116930 Nojima, D., Li, L. C., Dharia, A., Perinchery, G., Ribeiro-Filho, L., Yen, T. S., Dahiya, R. CpG hypermethylation of the promoter region inactivates the estrogen receptor-beta gene in patients with prostate carcinoma. Cancer. 2001 Oct 15; 92: 2076-83

163610 Norberg, A., Gabrielsson, J., Jones, A. W., Hahn, R. G. Within- and between-subject variations in pharmacokinetic parameters of ethanol by analysis of breath, venous blood and urine. Br J Clin Pharmacol. 2000 May; 49: 399-408

122460 Norby, B., Frimodt-Moller, P. C. Development of a urethrorectal fistula after transurethral microwave thermotherapy for benign prostatic hyperplasia. BJU Int. 2000 Mar; 85: 554-5

113790 Norby, B., Nielsen, H. V., Frimodt-Moller, P. C. Cost-effectiveness of new treatments for benign prostatic hyperplasia: results of a randomized trial comparing the short-term cost-effectiveness of transurethral interstitial laser coagulation of the prostate, transurethral microwave thermotherapy and sta. Scand J Urol Nephrol. 2002; 36: 286-95

113030 Norby, B., Nielsen, H. V., Frimodt-Moller, P. C. Transurethral interstitial laser coagulation of the prostate and transurethral microwave thermotherapy vs transurethral resection or incision of the prostate: results of a randomized, controlled study in patients with symptomatic benign prostatic hyperpla. BJU Int. 2002 Dec; 90: 853-62

129230 Norby, B., Nordling, J., Mortensen, S. Lower urinary tract symptoms in the danish population: a population-based study of symptom prevalence, health-care seeking behavior and prevalence of treatment in elderly males and females. Eur Urol. 2005 Jun; 47: 817-23

164510 Nordin, B. E., Need, A. G., Morris, H. A., Horowitz, M. Biochemical variables in pre- and postmenopausal women: reconciling the calcium and estrogen hypotheses. Osteoporos Int. 1999; 9: 351-7

103410 Nordling, J. Efficacy and safety of two doses (10 and 15 mg) of alfuzosin or tamsulosin (0.4 mg) once daily for treating symptomatic benign prostatic hyperplasia. BJU Int. 2005 May; 95: 1006-12

135340 Nordling, J. The aging bladder--a significant but underestimated role in the development of lower urinary tract symptoms. Exp Gerontol. 2002 Aug-Sep; 37: 991-9

151670 Norman, B. H., Dodge, J. A., Richardson, T. I., Borromeo, P. S., Lugar, C. W., Jones, S. A., Chen, K., Wang, Y., Durst, G. L., Barr, R. J., Montrose-Rafizadeh, C., Osborne, H. E., Amos, R. M., Guo, S., Boodhoo, A. and Krishnan, V. Benzopyrans are selective estrogen receptor beta agonists with novel activity in models of benign prostatic hyperplasia. J Med Chem. 2006; 49: 6155-7

130110 Norredam, M., Crosby, S., Munarriz, R., Piwowarczyk, L., Grodin, M. Urologic complications of sexual trauma among male survivors of torture. Urology. 2005 Jan; 65: 28-32

153160 Nortvedt, M. W., Riise, T., Frugard, J., Mohn, J., Bakke, A., Skar, A. B., Nyland, H., Glad, S. B. and Myhr, K. M. Prevalence of bladder, bowel and sexual problems among multiple sclerosis patients two to five years after diagnosis. Mult Scler. 2007; 13: 106-12

151460 Nosseir, M., Hinkel, A. and Pannek, J. Clinical usefulness of urodynamic assessment for maintenance of bladder function in patients with spinal cord injury. Neurourol Urodyn. 2007; 26: 228-33

118810 Novelli, G., Margiotti, K., Sangiuolo, F., Reichardt, J. K. Pharmacogenetics of human androgens and prostatic diseases. Pharmacogenomics. 2001 Feb; 2: 65-72

104290 Noworolski, S. M., Henry, R. G., Vigneron, D. B., Kurhanewicz, J. Dynamic contrast-enhanced MRI in normal and abnormal prostate tissues as defined by biopsy, MRI, and 3D MRSI. Magn Reson Med. 2005 Feb; 53: 249-55

103940 Nuhoglu, B., Ayyildiz, A., Fidan, V., Ersoy, E., Huri, E., Germiyanogu, C. Transurethral electrovaporization of the prostate: is it any better than standard transurethral prostatectomy? 5-year follow-up. J Endourol. 2005 Jan-Feb; 19: 79-82

117480 Nurmikko, P., Pettersson, K., Piironen, T., Hugosson, J., Lilja, H. Discrimination of prostate cancer from benign disease by plasma measurement of intact, free prostate-specific antigen lacking an internal cleavage site at Lys145-Lys146. Clin Chem. 2001 Aug; 47: 1415-23

114530 Oades, G. M., Eaton, J. D., Kirby, R. S. The clinical role of alpha-blockers in the treatment of benign prostatic hyperplasia. Curr Urol Rep. 2000 Aug; 1: 97-102

126120 Obara, W., Isurugi, K., Kudo, D., Takata, R., Kato, K., Kanehira, M., Iwasaki, K., Tanji, S., Konda, R., Fujioka, T. Eight year experience with Studer ileal neobladder. Jpn J Clin Oncol. 2006 Jul; 36: 418-24

109530 Obermuller-Jevic, U. C., Olano-Martin, E., Corbacho, A. M., Eiserich, J. P., van der Vliet, A., Valacchi, G., Cross, C. E., Packer, L. Lycopene inhibits the growth of normal human prostate epithelial cells in vitro. J Nutr. 2003 Nov; 133: 3356-60

112950 Oberpenning, F., Weining, C., Brandt, B., De Angelis, G., Heinecke, A., Hamm, M., Stieber, P., Hertle, L., Schmid, H. P., Semjonow, A. Combining free and total prostate specific antigen assays from different manufacturers: the pitfalls. Eur Urol. 2002 Dec; 42: 577-82; discussion 582

164270 Obrador, G. T., Arora, P., Kausz, A. T., Ruthazer, R., Pereira, B. J., Levey, A. S. Level of renal function at the initiation of dialysis in the U.S. end-stage renal disease population. Kidney Int. 1999 Dec; 56: 2227-35

108010 Occhiato, E. G., Guarna, A., Danza, G., Serio, M. Selective non-steroidal inhibitors of 5 alpha-reductase type 1. J Steroid Biochem Mol Biol. 2004 Jan; 88: 16-Jan

137240 Ockrim, J. L., Laniado, M. E., Patel, A., Tubaro, A., St Clair Carter, S. A probability based system for combining simple office parameters as a predictor of bladder outflow obstruction. J Urol. 2001 Dec; 166: 2221-5

129930 Ockrim, J., Laniado, M. E., Khoubehi, B., Renzetti, R., Finazzi Agro, E., Carter, S. S., Tubaro, A. Variability of detrusor overactivity on repeated filling cystometry in men with urge symptoms: comparison with spinal cord injury patients. BJU Int. 2005 Mar; 95: 587-90

111200 O'Connor, R. C., Bales, G. T., Avila, D., Gerber, G. S. Variability of the International Prostate Symptom Score in men with lower urinary tract symptoms. Scand J Urol Nephrol. 2003; 37: 35-7

114170 O'Connor, R. C., Laven, B. A., Bales, G. T., Gerber, G. S. Nonsurgical management of benign prostatic hyperplasia in men with bladder calculi. Urology. 2002 Aug; 60: 288-91

151710 Odden, M. C., Chertow, G. M., Fried, L. F., Newman, A. B., Connelly, S., Angleman, S., Harris, T. B., Simonsick, E. M. and Shlipak, M. G. Cystatin C and measures of physical function in elderly adults: the Health, Aging, and Body Composition (HABC) Study. Am J Epidemiol. 2006; 164: 1180-9

156310 Odden, M. C., Scherzer, R., Bacchetti, P., Szczech, L. A., Sidney, S., Grunfeld, C. and Shlipak, M. G. Cystatin C level as a marker of kidney function in human immunodeficiency virus infection: the FRAM study. Arch Intern Med. 2007; 167: 2213-9

135210 Odenholt, I., Bylander-Groth, A., Frimodt-Moller, N., Rokstad, K. S., Molstad, S. Differences in antibiotic prescribing patterns between general practitioners in Scandinavia: a questionnaire study. Scand J Infect Dis. 2002; 34: 602-9

115710 Odrazka, K., Vanasek, J., Vaculikova, M., Petera, J., Zouhar, M., Zoul, Z., Stejskal, J., Skrabkova, Z., Kadecka, D. Conformal radiotherapy for prostate cancer--longer duration of acute genitourinary toxicity in patients with prior history of invasive urological procedure. Acta Oncol. 2001; 40: 810-5

152800 Oelke, M., Hofner, K., Jonas, U., de la Rosette, J. J., Ubbink, D. T. and Wijkstra, H. Diagnostic accuracy of noninvasive tests to evaluate bladder outlet obstruction in men: detrusor wall thickness, uroflowmetry, postvoid residual urine, and prostate volume. Eur Urol. 2007; 52: 827-34

111820 Oettel, M. Is there a role for estrogens in the maintenance of men's health?. Aging Male. 2002 Dec; 5: 248-57

157140 Oeyen, S., Vandijck, D., Benoit, D., Decruyenaere, J., Annemans, L. and Hoste, E. Long-term outcome after acute kidney injury in critically-ill patients. Acta Clin Belg Suppl. 2007; : 337-40

104110 Ogishima, T., Shiina, H., Breault, J. E., Tabatabai, L., Bassett, W. W., Enokida, H., Li, L. C., Kawakami, T., Urakami, S., Ribeiro-Filho, L. A., Terashima, M., Fujime, M., Igawa, M., Dahiya, R. Increased heparanase expression is caused by promoter hypomethylation and up-regulation of transcriptional factor early growth response-1 in human prostate cancer. Clin Cancer Res. 2005 Feb 1; 11: 1028-36

112760 Ogiste, J. S., Cooper, K., Kaplan, S. A. Are stents still a useful therapy for benign prostatic hyperplasia?. Curr Opin Urol. 2003 Jan; 13: 51-7

133870 Oh, K. C., Zang, D. Y. Primary non-Hodgkin's lymphoma of the bladder with bone marrow involvement. Korean J Intern Med. 2003 Mar; 18: 40-4

164600 Ohashi, R., Tamai, I., Yabuuchi, H., Nezu, J. I., Oku, A., Sai, Y., Shimane, M., Tsuji, A. Na(+)-dependent carnitine transport by organic cation transporter (OCTN2): its pharmacological and toxicological relevance. J Pharmacol Exp Ther. 1999 Nov; 291: 778-84

154180 Ohigashi, T., Nakamura, K., Nakashima, J., Baba, S. and Murai, M. Long-term results of three different minimally invasive therapies for lower urinary tract symptoms due to benign prostatic hyperplasia: comparison at a single institute. Int J Urol. 2007; 14: 326-30

156450 Ohishi, M., Takagi, T., Ito, N., Terai, M., Tatara, Y., Hayashi, N., Shiota, A., Katsuya, T., Rakugi, H. and Ogihara, T. Renal-protective effect of T-and L-type calcium channel blockers in hypertensive patients: an Amlodipine-to-Benidipine Changeover (ABC) study. Hypertens Res. 2007; 30: 797-806

152850 Oh-Oka, H. and Fujisawa, M. Study of low bladder volume measurement using 3-dimensional ultrasound scanning device: improvement in measurement accuracy through training when bladder volume is 150 ml or less. J Urol. 2007; 177: 595-9

106020 Ohsfeldt, R. L., Kreder, K. J., Klein, R. W., Chrischilles, E. A. Cost-effectiveness of tamsulosin, doxazosin, and terazosin in the treatment of benign prostatic hyperplasia. J Manag Care Pharm. 2004 Sep-Oct; 10: 412-22

153620 Ohtani, H., Wakui, H., Komatsuda, A., Chyzh, K. A., Hatakeyama, T., Masai, R., Okuyama, S., Togashi, M. and Sawada, K. Differences between myeloperoxidase-specific and -nonspecific P-ANCA-associated renal disease. Ren Fail. 2007; 29: 183-7

153810 Ohtsuki, Y., Terao, N., Kuwahara, M., Ochi, K., Iguchi, M., Kurabayashi, A., Matsumoto, M., Takeuchi, T. and Furihata, M. Eosinophil infiltration in post-transurethral resection prostatitis and cystitis with special reference to sequential changes of eosinophilia. Med Mol Morphol. 2007; 40: 29-33

107820 Ohyama, C., Hosono, M., Nitta, K., Oh-eda, M., Yoshikawa, K., Habuchi, T., Arai, Y., Fukuda, M. Carbohydrate structure and differential binding of prostate specific antigen to Maackia amurensis lectin between prostate cancer and benign prostate hypertrophy. Glycobiology. 2004 Aug; 14: 671-9

122130 Okada, H., Kamidono, S., Yoshioka, T., Okuyama, A., Ozono, S., Hirao, Y., Okajima, E., Yamamoto, K., Kishimoto, T., Park, Y., Kurita, T. A comparative study of terazosin and tamsulosin for symptomatic benign prostatic hyperplasia in Japanese patients. BJU Int. 2000 Apr; 85: 676-81

119200 Okada, K., Yokoyama, K., Okihara, K., Ukimura, O., Kojima, M., Miki, T., Takamatsu, T. Immunohistochemical localization of platelet-derived endothelial cell growth factor expression and its relation to angiogenesis in prostate. Urology. 2001 Feb; 57: 376-81

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

135980 Okamura, K., Usami, T., Nagahama, K., Maruyama, S., Mizuta, E. 'Quality of life' assessment of urination in elderly Japanese men and women with some medical problems using International Prostate Symptom Score and King's Health Questionnaire. Eur Urol. 2002 Apr; 41: 411-9

134940 Okamura, K., Usami, T., Nagahama, K., Maruyama, S., Mizuta, E. The relationships among filling, voiding subscores from International Prostate Symptom Score and quality of life in Japanese elderly men and women. Eur Urol. 2002 Nov; 42: 498-505

122100 Okegawa, T., Kinjo, M., Watanabe, K., Noda, H., Kato, M., Miyata, A., Murata, A., Yoshii, M., Nutahara, K., Higashihara, E. The significance of the free-to-complexed prostate-specific antigen (PSA) ratio in prostate cancer detection in patients with a PSA level of 4.1-10.0 ng/mL. BJU Int. 2000 Apr; 85: 708-14

120690 Okegawa, T., Noda, H., Nutahara, K., Higashihara, E. Comparisons of the various combinations of free, complexed, and total prostate-specific antigen for the detection of prostate cancer. Eur Urol. 2000 Oct; 38: 380-7

129860 Okeke, A. A., Persad, R. A. Re: the impact of open radical retropubic prostatectomy on continence and lower urinary tract symptoms: a prospective assessment using validated self-administered outcome instruments. J Urol. 2005 Mar; 173: 1047; author reply 1047-8

106430 Okeke, L. I. Day case transurethral prostatectomy in Nigeria. West Afr J Med. 2004 Apr-Jun; 23: 128-30

155770 Okeke, L. I. Effect of warm intravenous and irrigating fluids on body temperature during transurethral resection of the prostate gland. BMC Urol. 2007; 7: 15

154860 Olapade-Olaopa, E. O., Moscatello, D. K., MacKay, E. H., Ogunbiyi, J. O., Shittu, O. B., Terry, T. R., Okeke, L. I., Wong, A. J. and Habib, F. K. A variant epidermal growth factor receptor protein is similarly expressed in benign hyperplastic and carcinomatous prostatic tissues in black and white men. West Afr J Med. 2007; 26: 42-7

103500 Olapade-Olaopa, E. O., Moscatello, D. K., MacKay, E. H., Sandhu, D. P., Terry, T. R., Wong, A. J., Habib, F. K. Alterations in the expression of androgen receptor, wild type-epidermal growth factor receptor and a mutant epidermal growth factor receptor in human prostate cancer. Afr J Med Med Sci. 2004 Sep; 33: 245-53

107690 Olapade-Olaopa, E. O., Muronda, C. A., MacKay, E. H., Danso, A. P., Sandhu, D. P., Terry, T. R., Habib, F. K. Androgen receptor protein expression in prostatic tissues in Black and Caucasian men. Prostate. 2004 Jun 1; 59: 460-8

134130 Olapade-Olaopa, E. O., Nelson, C. P., Adebayo, S. A., Fakolujo, A. D., Bloom, D. A. EUTUBS: a mnemonic for the complete endoscopic examination of the lower urinary tract. West Afr J Med. 2002 Oct-Dec; 21: 294-6

110040 O'Leary, M. P. Lower urinary tract symptoms/benign prostatic hyperplasia: maintaining symptom control and reducing complications. Urology. 2003 Sep; 62: 15-23

120310 O'Leary, M. P. LUTS, ED, QOL: alphabet soup or real concerns to aging men?. Urology. 2000 Nov 1; 56: 7-11

115880 O'Leary, M. P. Quality of life and alpha-blocker therapy: an important consideration for both the patient and the physician. Urology. 2002 Feb; 59: 11-Jul

116140 O'Leary, M. P. Quality of life and sexuality: methodological aspects. Eur Urol. 2001; 40 Suppl 3: 13-8

116420 O'Leary, M. P. Tamsulosin: current clinical experience. Urology. 2001 Dec; 58: 42-8; discussion 48

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

120780 O'Leary, M. P., Gee, W. F., Holtgrewe, H. L., Blute, M. L., Cooper, T. P., Miles, B. J., Nellans, R. E., Thomas, R., Painter, M. R., Meyer, J. J., Naslund, M. J., Gormley, E. A., Blizzard, R., Fenninger, R. B. 1999 American Urological Association Gallup Survey: changes in physician practice patterns, treatment of incontinence and bladder cancer, and impact of managed care. J Urol. 2000 Oct; 164: 1311-6

110350 O'Leary, M. P., Rhodes, T., Girman, C. J., Jacobson, D. J., Roberts, R. O., Lieber, M. M., Jacobsen, S. J. Distribution of the Brief Male Sexual Inventory in community men. Int J Impot Res. 2003 Jun; 15: 185-91

110450 O'Leary, M. P., Roehrborn, C., Andriole, G., Nickel, C., Boyle, P., Hofner, K. Improvements in benign prostatic hyperplasia-specific quality of life with dutasteride, the novel dual 5alpha-reductase inhibitor. BJU Int. 2003 Aug; 92: 262-6

130430 Olgac, S., Mazumdar, M., Dalbagni, G., Reuter, V. E. Urothelial carcinoma of the renal pelvis: a clinicopathologic study of 130 cases. Am J Surg Pathol. 2004 Dec; 28: 1545-52

108470 Oliver, S. E., Barrass, B., Gunnell, D. J., Donovan, J. L., Peters, T. J., Persad, R. A., Gillatt, D., Neal, D. E., Hamdy, F. C., Holly, J. M. Serum insulin-like growth factor-I is positively associated with serum prostate-specific antigen in middle-aged men without evidence of prostate cancer. Cancer Epidemiol Biomarkers Prev. 2004 Jan; 13: 163-5

161420 Olsson Gisleskog, P., Hermann, D., Hammarlund-Udenaes, M., Karlsson, M. O. Validation of a population pharmacokinetic/pharmacodynamic model for 5 alpha-reductase inhibitors. Eur J Pharm Sci. 1999 Aug; 8: 291-9

106890 Olsson, A. Y., Lilja, H., Lundwall, A. Taxon-specific evolution of glandular kallikrein genes and identification of a progenitor of prostate-specific antigen. Genomics. 2004 Jul; 84: 147-56

126560 On, S. J., Ku, J. H. Comparative study of international prostate symptom scores and urodynamic parameters in men and women with lower urinary tract symptoms. Urol Int. 2006; 76: 309-13

118060 O'Neill, A. J., Boran, S. A., O'Keane, C., Coffey, R. N., Hegarty, N. J., Hegarty, P., Gaffney, E. F., Fitzpatrick, J. M., Watson, R. W. Caspase 3 expression in benign prostatic hyperplasia and prostate carcinoma. Prostate. 2001 May 15; 47: 183-8

103080 O'Neill, L., Kuder, J. Explaining variation in physician practice patterns and their propensities to recommend services. Med Care Res Rev. 2005 Jun; 62: 339-57

157190 Onol, S. Y., Onol, F. F., Onur, S., Inal, H., Akbas, A. and Kose, O. Reconstruction of strictures of the fossa navicularis and meatus with transverse island fasciocutaneous penile flap. J Urol. 2008; 179: 1437-40

111100 Onur, R., Ilhan, N., Orhan, I., Ilhan, N. Increased discrimination between benign prostatic hyperplasia and prostate cancer with equimolar total prostate specific antigen measurement. World J Urol. 2003 May; 21: 43-7

131450 Onur, R., Ozden, M., Orhan, I., Kalkan, A., Semercioz, A. Incidence of bacteraemia after urodynamic study. J Hosp Infect. 2004 Jul; 57: 241-4

110370 Opalinska, E., Stoma, F., Michalak, A., Latalski, M., Goniewicz, M. Benign prostatic hyperplasia, prostate cancer and other prostate diseases diagnosed as a result of screening procedure among 1,004 men in the Lublin district. Ann Univ Mariae Curie Sklodowska [Med]. 2002; 57: 493-501

129670 Ordu Gokkaya, N. K., Dalyan Aras, M., Oken, O., Koseoglu, F. Fever during post-acute rehabilitation in patients with brain injury. J Rehabil Med. 2005 Mar; 37: 123-5

110750 Oremek, G. M., Sapoutzis, N., Eden, F., Jonas, D. Complexed PSA in routine diagnosis. Anticancer Res. 2003 Mar-Apr; 23: 975-7

165170 Orime, Y., Shiono, M., Hata, H., Yagi, S., Tsukamoto, S., Okumura, H., Nakata, K., Kimura, S., Hata, M., Sezai, A., Sezai, Y. Cytokine and endothelial damage in pulsatile and nonpulsatile cardiopulmonary bypass. Artif Organs. 1999 Jun; 23: 508-12

139250 O'Riordan, J. A., Hopkins, P. M., Ravenscroft, A., Stevens, J. D. Patient-controlled analgesia and urinary retention following lower limb joint replacement: prospective audit and logistic regression analysis. Eur J Anaesthesiol. 2000 Jul; 17: 431-5

105970 Ornstein, D. K., Rayford, W., Fusaro, V. A., Conrads, T. P., Ross, S. J., Hitt, B. A., Wiggins, W. W., Veenstra, T. D., Liotta, L. A., Petricoin, E. F., 3rd Serum proteomic profiling can discriminate prostate cancer from benign prostates in men with total prostate specific antigen levels between 2.5 and 15.0 ng/ml. J Urol. 2004 Oct; 172: 1302-5

125230 Orsini, N., RashidKhani, B., Andersson, S. O., Karlberg, L., Johansson, J. E., Wolk, A. Long-term physical activity and lower urinary tract symptoms in men. J Urol. 2006 Dec; 176: 2546-50; discussion 2550

164800 Osei, E. K., Faulkner, K. Fetal position and size data for dose estimation. Br J Radiol. 1999 Apr; 72: 363-70

152630 Oshika, T., Ohashi, Y., Inamura, M., Ohki, K., Okamoto, S., Koyama, T., Sakabe, I., Takahashi, K., Fujita, Y., Miyoshi, T. and Yasuma, T. Incidence of intraoperative floppy iris syndrome in patients on either systemic or topical alpha(1)-adrenoceptor antagonist. Am J Ophthalmol. 2007; 143: 150-1

128460 Osman, M., Wendt-Nordahl, G., Heger, K., Michel, M. S., Alken, P., Knoll, T. Percutaneous nephrolithotomy with ultrasonography-guided renal access: experience from over 300 cases. BJU Int. 2005 Oct; 96: 875-8

112060 Osman, Y., Wadie, B., El-Diasty, T., Larson, T. High-energy transurethral microwave thermotherapy: symptomatic vs urodynamic success. BJU Int. 2003 Mar; 91: 365-70

155990 Ostalska-Nowicka, D., Nowicki, M., Zachwieja, J., Kasper, M. and Witt, M. The significance of caveolin-1 expression in parietal epithelial cells of Bowman's capsule. Histopathology. 2007; 51: 611-21

108170 O'Sullivan, M., Murphy, C., Deasy, C., Iohom, G., Kiely, E. A., Shorten, G. Effects of transurethral resection of prostate on the quality of life of patients with benign prostatic hyperplasia. J Am Coll Surg. 2004 Mar; 198: 394-403

134220 Oswald, J., Brenner, E., Deibl, M., Fritsch, H., Bartsch, G., Radmayr, C. Longitudinal and thickness measurement of the normal distal and intravesical ureter in human fetuses. J Urol. 2003 Apr; 169: 1501-4

163710 Oswald, J., Korner, I., Riccabona, M. Comparison of the perimeatal-based flap (Mathieu) and the tubularized incised-plate urethroplasty (Snodgrass) in primary distal hypospadias. BJU Int. 2000 Apr; 85: 725-7

132200 Otagiri, N., Soeda, J., Yoshino, T., Chisuwa, H., Aruga, H., Kasai, H., Komatsu, M., Ohmori, T., Tauchi, K., Koike, H. Primary abscess of the omentum: report of a case. Surg Today. 2004; 34: 261-4

153360 Oterdoom, L. H., de Vries, A. P., Gansevoort, R. T., de Jong, P. E., Gans, R. O. and Bakker, S. J. Fasting insulin modifies the relation between age and renal function. Nephrol Dial Transplant. 2007; 22: 1587-92

128300 Otukesh, H., Sharifian, M., Simfroosh, N., Basiri, A., Hoseini, R., Sedigh, N., Golnari, P., Rezai, M., Fereshtenejad, M. Outcome of renal transplantation in children with low urinary tract abnormality. Transplant Proc. 2005 Sep; 37: 3071-4

134700 Ouslander, J. G. Geriatric considerations in the diagnosis and management of overactive bladder. Urology. 2002 Nov; 60: 50-5; discussion 55

115050 Ouyang, X. S., Wang, X., Lee, D. T., Tsao, S. W., Wong, Y. C. Over expression of ID-1 in prostate cancer. J Urol. 2002 Jun; 167: 2598-602

138380 Overland, G. B., Vatten, L., Rhodes, T., DeMuro, C., Jacobsen, G., Vada, K., Angelsen, A., Girman, C. J. Lower urinary tract symptoms, prostate volume and uroflow in norwegian community men. Eur Urol. 2001 Jan; 39: 36-41

127830 Owens, C. L., Ali, S. Z. Atypical squamous cells in exfoliative urinary cytology: clinicopathologic correlates. Diagn Cytopathol. 2005 Dec; 33: 394-8

160090 Oyama, N., Akino, H., Suzuki, Y., Kanamaru, H., Sadato, N., Yonekura, Y., Okada, K. The increased accumulation of. Jpn J Clin Oncol. 1999 Dec; 29: 623-9

138180 Oymar, K., Bjerknes, R. Urinary eosinophil protein X in children with asthma: influence of atopy and airway infections. Pediatr Allergy Immunol. 2001 Feb; 12: 34-41

160170 Ozbey, I., Aksoy, Y., Polat, O., Bicgi, O., Demirel, A., Okyar, G. Effects of doxazosin in men with benign prostatic hyperplasia: urodynamic assessment. Int Urol Nephrol. 1999; 31: 471-9

132590 Ozcelik, G., Polat, T. B., Aktas, S., Cetinkaya, F. Resistive index in febrile urinary tract infections: predictive value of renal outcome. Pediatr Nephrol. 2004 Feb; 19: 148-52

155140 Ozdemir, B. H., Ozdemir, F. N., Sezer, S. and Haberal, M. Influence of pretransplant IFN-alpha therapy on interstitial fibrosis in renal allografts with hepatitis C virus infection. Ren Fail. 2007; 29: 615-22

103360 Ozdemir, H., Onur, R., Bozgeyik, Z., Orhan, I., Ogras, M. S., Ogur, E. Measuring resistance index in patients with BPH and lower urinary tract symptoms. J Clin Ultrasound. 2005 May; 33: 176-80

110430 Ozden, C., Inal, G., Adsan, O., Yazici, S., Ozturk, B., Cetinkaya, M. Detection of prostate cancer and changes in prostate-specific antigen (PSA) six months after surgery for benign prostatic hyperplasia in patients with elevated PSA. Urol Int. 2003; 71: 150-3

152140 Ozden, C., Ozdal, O. L., Guzel, O., Han, O., Seckin, S. and Memis, A. The correlation between serum prostate specific antigen levels and asymptomatic inflammatory prostatitis. Int Urol Nephrol. 2007; 39: 859-63

150330 Ozden, C., Ozdal, O. L., Urgancioglu, G., Koyuncu, H., Gokkaya, S. and Memis, A. The correlation between metabolic syndrome and prostatic growth in patients with benign prostatic hyperplasia. Eur Urol. 2007; 51: 199-203; discussion 204-6

136820 Ozen, H., Aygun, C., Ergen, A., Sozen, S., Aki, F. T., Uygur, M. C. Combined use of prostate-specific antigen derivatives decreases the number of unnecessary biopsies to detect prostate cancer. Am J Clin Oncol. 2001 Dec; 24: 610-3

154100 Ozgur Tan, M., Irkilata, L., Sen, I., Onaran, M., Kupeli, B., Karaoglan, U. and Bozkirli, I. The impact of radiological anatomy in clearance of lower caliceal stones after shock wave lithotripsy. Urol Res. 2007; 35: 143-7

140200 Ozokutan, B. H., Kucukaydin, M., Gunduz, Z., Kabaklioglu, M., Okur, H., Turan, C. Urolithiasis in childhood. Pediatr Surg Int. 2000; 16: 60-3

123570 Oztekin, C. V., Ozturk, B., Tas, M., Ugurlu, O., Cetinkaya, M. How do patients with familial benign prostatic hyperplasia differ clinically from those with sporadic benign prostatic hyperplasia?. Urol Int. 2006; 76: 332-4

133550 Ozturk, B., Cetinkaya, M., Oztekin, V., Inal, G., Adsan, O., Ugurlu, O., Ozden, C. Effects of forced diuresis achieved by oral hydration and oral diuretic administration on uroflowmetric parameters and clinical waiting time of patients with lower urinary tract symptoms. Urol Int. 2003; 71: 22-5

127570 Paccalin, M., Hachulla, E., Cazalet, C., Tricot, L., Carreiro, M., Rubi, M., Grateau, G., Roblot, P. Localized amyloidosis: a survey of 35 French cases. Amyloid. 2005 Dec; 12: 239-45

118460 Pace, G., Selvaggio, O., Palumbo, F., Selvaggi, F. P. Initial experience with a new transurethral microwave thermotherapy treatment protocol '30-minute TUMT'. Eur Urol. 2001 Apr; 39: 405-11

105690 Padmanabhan, V., Callas, P., Philips, G., Trainer, T. D., Beatty, B. G. DNA replication regulation protein Mcm7 as a marker of proliferation in prostate cancer. J Clin Pathol. 2004 Oct; 57: 1057-62

165340 Pahler, A., Parker, J., Dekant, W. Dose-dependent protein adduct formation in kidney, liver, and blood of rats and in human blood after perchloroethene inhalation. Toxicol Sci. 1999 Mar; 48: 5-13

105120 Pahuja, A., Bashir, J., Williamson, E. M., Barber, N. Unresolved priapism secondary to tamsulosin. Int J Impot Res. 2005 May-Jun; 17: 293-4

154150 Paick, J. S., Kim, S. W. and Ku, J. H. Patterns in the diagnosis and management of benign prostatic hyperplasia in a country that does not have country-specific clinical practice guidelines. Yonsei Med J. 2007; 48: 281-8

126630 Paick, J. S., Ku, J. H., Shin, J. W., Yang, J. H., Kim, S. W. alpha-blocker monotherapy in the treatment of nocturia in men with lower urinary tract symptoms: a prospective study of response prediction. BJU Int. 2006 May; 97: 1017-23

155210 Paick, J. S., Um, J. M., Kim, S. W. and Ku, J. H. Influence of high-power potassium-titanyl-phosphate photoselective vaporization of the prostate on erectile function: a short-term follow-up study. J Sex Med. 2007; 4: 1701-7

154240 Paick, J. S., Um, J. M., Kwak, C., Kim, S. W. and Ku, J. H. Influence of bladder contractility on short-term outcomes of high-power potassium-titanyl-phosphate photoselective vaporization of the prostate. Urology. 2007; 69: 859-63

104050 Paick, S. H., Meehan, A., Lee, M., Penson, D. F., Wessells, H. The relationship among lower urinary tract symptoms, prostate specific antigen and erectile dysfunction in men with benign prostatic hyperplasia: results from the proscar long-term efficacy and safety study. J Urol. 2005 Mar; 173: 903-7

106500 Palacio, A., Hernandez, C., Marques, A., Prats, J., Espinosa, F. J. Long-term study to assess the efficacy of tamsulosin in the control of symptoms and complications developed in patients with symptomatic benign prostatic hyperplasia (OMNICONTROL study): first-year follow-up report. Arch Esp Urol. 2004 May; 57: 451-60

127790 Palit, V., Shah, T., Biyani, C. S., Elmasry, Y., Sarkar, R., Flannigan, G. M., Puri, R. Long term follow up of men with Alfuzosin who voided successfully following acute urinary retention*. Int Urol Nephrol. 2005; 37: 507-10

157000 Palmer, L. S. The role of intraoperative cystography following the injection of dextranomer/hyaluronic acid copolymer. J Urol. 2008; 179: 1118-20; discussion 1121

139110 Pan, C. C., Chiang, H., Chang, Y. H., Epstein, J. I. Tubulocystic clear cell adenocarcinoma arising within the prostate. Am J Surg Pathol. 2000 Oct; 24: 1433-6

132220 Panagamuwa, C., Glasby, M. J., Peckham, T. J. Dipstick screening for urinary tract infection before arthroplasty: a safe alternative to laboratory testing?. Int J Clin Pract. 2004 Jan; 58: 19-21

109340 Pannek, J., Berges, R. R., Cubick, G., Meindl, R., Senge, T. Prostate size and PSA serum levels in male patients with spinal cord injury. Urology. 2003 Nov; 62: 845-8

139360 Pannekoek, Y., Trum, J. W., Bleker, O. P., van der Veen, F., Spanjaard, L., Dankert, J. Cytokine concentrations in seminal plasma from subfertile men are not indicative of the presence of Ureaplasma urealyticum or Mycoplasma hominis in the lower genital tract. J Med Microbiol. 2000 Aug; 49: 697-700

103640 Panter, B. U., Jose, J., Hartmann, R. W. 5alpha-reductase in human embryonic kidney cell line HEK293: evidence for type II enzyme expression and activity. Mol Cell Biochem. 2005 Feb; 270: 201-8

156010 Pantuck, A. J., Baniel, J., Kirkali, Z., Klatte, T., Zomorodian, N., Yossepowitch, O. and Belldegrun, A. S. A novel resectoscope for transurethral resection of bladder tumors and the prostate. J Urol. 2007; 178: 2331-6; discussion 2336

152530 Paoletti, E., Bellino, D., Amidone, M., Rolla, D. and Cannella, G. Relationship between arterial hypertension and renal damage in chronic kidney disease: insights from ABPM. J Nephrol. 2006; 19: 778-82

130520 Papatsoris, A. G., Gekas, A. Which is the association between erectile dysfunction and lower urinary tract symptoms?. Andrologia. 2004 Dec; 36: 402-3

133990 Papatsoris, A. G., Mpadra, F. A., Karamouzis, M. V., Frangides, C. Y. Endemic brucellar epididymo-orchitis: a 10-year experience. Int J Infect Dis. 2002 Dec; 6: 309-13

154660 Papatsoris, A. G., Papapetropoulos, S., Singer, C. and Deliveliotis, C. Urinary and erectile dysfunction in multiple system atrophy (MSA). Neurourol Urodyn. 2008; 27: 22-7

117720 Papatsoris, A. G., Papavassiliou, A. G. Molecular 'palpation' of BPH: a tale of MAPK signalling?. Trends Mol Med. 2001 Jul; 7: 288-92

107700 Papini, S., Rosellini, A., Campani, D., DeMatteis, A., Selli, C., Revoltella, R. P. Selective growth of epithelial basal cells from human prostate in a three-dimensional organ culture. Prostate. 2004 Jun 1; 59: 383-92

133020 Parazzini, F., Chiaffarino, F., Lavezzari, M., Giambanco, V. Risk factors for stress, urge or mixed urinary incontinence in Italy. BJOG. 2003 Oct; 110: 927-33

165140 Pardo-Mindan, F. J., Errasti, P., Panizo, A., Sola, I., de Alava, E., Lozano, M. D. Decrease of apoptosis rate in patients with renal transplantation treated with mycophenolate mofetil. Nephron. 1999; 82: 232-7

112940 Pareek, G., Shevchuk, M., Armenakas, N. A., Vasjovic, L., Hochberg, D. A., Basillote, J. B., Fracchia, J. A. The effect of finasteride on the expression of vascular endothelial growth factor and microvessel density: a possible mechanism for decreased prostatic bleeding in treated patients. J Urol. 2003 Jan; 169: 20-3

140280 Parekh, D. J., Gilbert, W. B., Smith, J. A. , Jr. Functional lower urinary tract voiding outcomes after cystectomy and orthotopic neobladder. J Urol. 2000 Jan; 163: 56-8; discussion 58-9

132260 Parikh, C. R., Jani, A., Melnikov, V. Y., Faubel, S., Edelstein, C. L. Urinary interleukin-18 is a marker of human acute tubular necrosis. Am J Kidney Dis. 2004 Mar; 43: 405-14

151820 Park, D. S., Cho, T. W., Lee, Y. K., Lee, Y. T., Hong, Y. K. and Jang, W. K. Evaluation of short term clinical effects and presumptive mechanism of botulinum toxin type A as a treatment modality of benign prostatic hyperplasia. Yonsei Med J. 2006; 47: 706-14

125880 Park, S. J., Kim, J. K., Kim, K. W., Cho, K. S. MDCT Findings of renal trauma. AJR Am J Roentgenol. 2006 Aug; 187: 541-7

104630 Parnes, H. L., Thompson, I. M., Ford, L. G. Prevention of hormone-related cancers: prostate cancer. J Clin Oncol. 2005 Jan 10; 23: 368-77

150380 Parr, R. L., Dakubo, G. D., Crandall, K. A., Maki, J., Reguly, B., Aguirre, A., Wittock, R., Robinson, K., Alexander, J. S., Birch-Machin, M. A., Abdel-Malak, M., Froberg, M. K., Diamandis, E. P. and Thayer, R. E. Somatic mitochondrial DNA mutations in prostate cancer and normal appearing adjacent glands in comparison to age-matched prostate samples without malignant histology. J Mol Diagn. 2006; 8: 312-9

111510 Parrott, E. K. TUNA of the prostate in an office setting: nursing implications. Urol Nurs. 2003 Feb; 23: 33-9; quiz 40

135460 Parsons, C. L., Albo, M. Intravesical potassium sensitivity in patients with prostatitis. J Urol. 2002 Sep; 168: 1054-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

130230 Parsons, C. L., Rosenberg, M. T., Sassani, P., Ebrahimi, K., Koziol, J. A., Zupkas, P. Quantifying symptoms in men with interstitial cystitis/prostatitis, and its correlation with potassium-sensitivity testing. BJU Int. 2005 Jan; 95: 86-90

154650 Parsons, J. K. Modifiable risk factors for benign prostatic hyperplasia and lower urinary tract symptoms: new approaches to old problems. J Urol. 2007; 178: 395-401

156360 Parsons, J. K., Bergstrom, J. and Barrett-Connor, E. Lipids, lipoproteins and the risk of benign prostatic hyperplasia in community-dwelling men. BJU Int. 2008; 101: 313-8

116920 Parsons, J. K., Gage, W. R., Nelson, W. G., De Marzo, A. M. p63 protein expression is rare in prostate adenocarcinoma: implications for cancer diagnosis and carcinogenesis. Urology. 2001 Oct; 58: 619-24

100480 Parsons, J. K., Partin, A. W. Hugh Hampton Young, benign prostatic hyperplasia, and 'the cure of prostatic obstruction'. J Am Coll Surg. 2005 Nov; 201: 654-5

107440 Parwani, A. V., Kronz, J. D., Genega, E. M., Gaudin, P., Chang, S., Epstein, J. I. Prostate carcinoma with squamous differentiation: an analysis of 33 cases. Am J Surg Pathol. 2004 May; 28: 651-7

117810 Pasquali, D., Staibano, S., Prezioso, D., Franco, R., Esposito, D., Notaro, A., De Rosa, G., Bellastella, A., Sinisi, A. A. Estrogen receptor beta expression in human prostate tissue. Mol Cell Endocrinol. 2001 Jun 10; 178: 47-50

155910 Pasqualini, L., Schillaci, G., Pirro, M., Vaudo, G., Siepi, D., Innocente, S., Ciuffetti, G. and Mannarino, E. Renal dysfunction predicts long-term mortality in patients with lower extremity arterial disease. J Intern Med. 2007; 262: 668-77

105830 Passadakis, P., Ersoy, F., Tam, P., Memmos, D., Siamopoulos, K., Ozener, C., Akcicek, F., Camsari, T., Ates, K., Ataman, R., Vlachojannis, J., Dombros, N., Utas, C., Akpolat, T., Bozfakioglu, S., Wu, G. G., Karayaylali, I., Arinsoy, T., Serum levels of prostate-specific antigen and vitamin D in peritoneal dialysis patients. Adv Perit Dial. 2004; 20: 203-8

123640 Patankar, S., Jamkar, A., Dobhada, S., Gorde, V. PlasmaKinetic Superpulse transurethral resection versus conventional transurethral resection of prostate. J Endourol. 2006 Mar; 20: 215-9

151000 Patel, A. and Chapple, C. Acute urinary retention: who is at risk and how best to manage it?. Curr Urol Rep. 2006; 7: 252-9

102410 Patel, A. K., Chapple, C. R. Benign prostatic hyperplasia: treatment in primary care. BMJ. 2006 Sep 9; 333: 535-9

140560 Patel, A., Fuchs, G. J., Gutierrez-Aceves, J., Andrade-Perez, F. Transurethral electrovaporization and vapour-resection of the prostate: an appraisal of possible electrosurgical alternatives to regular loop resection. BJU Int. 2000 Jan; 85: 202-10

102880 Patel, D. A., Bock, C. H., Schwartz, K., Wenzlaff, A. S., Demers, R. Y., Severson, R. K. Sexually transmitted diseases and other urogenital conditions as risk factors for prostate cancer: a case--control study in Wayne County, Michigan. Cancer Causes Control. 2005 Apr; 16: 263-73

122120 Patel, D., White, P. A., Milford Ward, A. A comparison of six commercial assays for total and free prostate specific antigen (PSA): the predictive value of the ratio of free to total PSA. BJU Int. 2000 Apr; 85: 686-9

119820 Pateman, B. Feminist research or humanistic research? Experiences of studying prostatectomy. J Clin Nurs. 2000 Mar; 9: 310-6

122840 Pateman, B., Johnson, M. Men's lived experiences following transurethral prostatectomy for benign prostatic hypertrophy. J Adv Nurs. 2000 Jan; 31: 51-8

164140 Paternoster, D. M., Stella, A., Babbo, G. L., Pignataro, R., Mussap, M., Plebani, M. Markers of tubular damage in pre-eclampsia. Minerva Ginecol. 1999 Oct; 51: 373-7

132390 Paterson, A. Urinary tract infection: an update on imaging strategies. Eur Radiol. 2004 Mar; 14 Suppl 4: L89-100

113000 Pathak, S. K., Sharma, R. A., Mellon, J. K. Chemoprevention of prostate cancer by diet-derived antioxidant agents and hormonal manipulation (Review). Int J Oncol. 2003 Jan; 22: 13-May

117040 Patra, S. K., Patra, A., Dahiya, R. Histone deacetylase and DNA methyltransferase in human prostate cancer. Biochem Biophys Res Commun. 2001 Sep 28; 287: 705-13

115680 Patra, S. K., Patra, A., Zhao, H., Dahiya, R. DNA methyltransferase and demethylase in human prostate cancer. Mol Carcinog. 2002 Mar; 33: 163-71

134400 Patzer, L., Seeman, T., Luck, C., Wuhl, E., Janda, J., Misselwitz, J. Day- and night-time blood pressure elevation in children with higher grades of renal scarring. J Pediatr. 2003 Feb; 142: 117-22

154320 Payabvash, S., Kajbafzadeh, A. M., Tavangar, S. M., Monajemzadeh, M. and Sadeghi, Z. Myocyte apoptosis in primary obstructive megaureters: the role of decreased vascular and neural supply. J Urol. 2007; 178: 259-64; discussion 264

111580 Pearson, J. D., Lei, H. H., Beaty, T. H., Wiley, K. E., Isaacs, S. D., Isaacs, W. B., Stoner, E., Walsh, P. C. Familial aggregation of bothersome benign prostatic hyperplasia symptoms. Urology. 2003 Apr; 61: 781-5

151560 Pechere-Bertschi, A., Sunaric-Megevand, G., Haefliger, I., Panarello, F., Maillard, M. and Burnier, M. Renal sodium handling in patients with normal pressure glaucoma. Clin Sci (Lond). 2007; 112: 337-44

163870 Pedersen, J. F., Larsen, V. A., Rosenkilde, M. Renal duplication artefacts in ultrasound imaging. Br J Radiol. 1999 Nov; 72: 1040-5

104450 Pedraza, R., Samadi, A., Eshghi, M. Holmium laser enucleation of the prostate in critically ill patients with technique modification. J Endourol. 2004 Oct; 18: 795-8

120630 Peehl, D. M., Sellers, R. G. Cultured stromal cells: an in vitro model of prostatic mesenchymal biology. Prostate. 2000 Oct 1; 45: 115-23

136540 Pel, J. J., Bosch, J. L., Blom, J. H., Lycklama, a. Nijeholt AA, van Mastrigt, R. Development of a non-invasive strategy to classify bladder outlet obstruction in male patients with LUTS. Neurourol Urodyn. 2002; 21: 117-25

136650 Pel, J. J., van Mastrigt, R. Development of a low-cost flow meter to grade the maximum flow rate. Neurourol Urodyn. 2002; 21: 48-54

150420 Pelletier, S. J., Guidinger, M. K., Merion, R. M., Englesbe, M. J., Wolfe, R. A., Magee, J. C. and Sollinger, H. W. Recovery and utilization of deceased donor kidneys from small pediatric donors. Am J Transplant. 2006; 6: 1646-52

117830 Peng, J. B., Zhuang, L., Berger, U. V., Adam, R. M., Williams, B. J., Brown, E. M., Hediger, M. A., Freeman, M. R. CaT1 expression correlates with tumor grade in prostate cancer. Biochem Biophys Res Commun. 2001 Apr 6; 282: 729-34

165770 Peng, N. J., Kwok, C. G., Chiou, Y. H., Jao, G. H., Tsay, D. G., Liu, R. S., Strauss, H. W. Posterior 180 degrees 99mTc-dimercaptosuccinic acid renal SPECT. J Nucl Med. 1999 Jan; 40: 60-3

150920 Penna, G., Mondaini, N., Amuchastegui, S., Degli Innocenti, S., Carini, M., Giubilei, G., Fibbi, B., Colli, E., Maggi, M. and Adorini, L. Seminal plasma cytokines and chemokines in prostate inflammation: interleukin 8 as a predictive biomarker in chronic prostatitis/chronic pelvic pain syndrome and benign prostatic hyperplasia. Eur Urol. 2007; 51: 524-33; discussion 533

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

118770 Pennefather, J. N., Lau, W. A., Mitchelson, F., Ventura, S. The autonomic and sensory innervation of the smooth muscle of the prostate gland: a review of pharmacological and histological studies. J Auton Pharmacol. 2000 Aug; 20: 193-206

133960 Penson, D. F., Litwin, M. S. The physical burden of prostate cancer. Urol Clin North Am. 2003 May; 30: 305-13

111900 Peracaula, R., Tabares, G., Royle, L., Harvey, D. J., Dwek, R. A., Rudd, P. M., de Llorens, R. Altered glycosylation pattern allows the distinction between prostate-specific antigen (PSA) from normal and tumor origins. Glycobiology. 2003 Jun; 13: 457-70

136140 Perera, N. D., Nandasena, A. C. Early catheter removal after transurethral resection of the prostate. Ceylon Med J. 2002 Mar; 47: 2-Nov

103820 Perez-Ornelas, V., Cabeza, M., Bratoeff, E., Heuze, I., Sanchez, M., Ramirez, E., Naranjo-Rodriguez, E. New 5alpha-reductase inhibitors: in vitro and in vivo effects. Steroids. 2005 Mar; 70: 217-24

115650 Perimenis, P., Gyftopoulos, K., Markou, S., Barbalias, G. Effects of finasteride and cyproterone acetate on hematuria associated with benign prostatic hyperplasia: a prospective, randomized, controlled study. Urology. 2002 Mar; 59: 373-7

121790 Perinchery, G., Nojima, D., Goharderakhshan, R., Tanaka, Y., Alonzo, J., Dahiya, R. Microsatellite instability of dinucleotide tandem repeat sequences is higher than trinucleotide, tetranucleotide and pentanucleotide repeat sequences in prostate cancer. Int J Oncol. 2000 Jun; 16: 1203-9

140570 Perk, H., Serel, T. A., Kosar, A., Hoscan, M. B. Comparative early results of the sandwich technique and transurethral electroresection in benign prostatic hyperplasia. Prostate Cancer Prostatic Dis. 2001; 4: 242-244

105390 Perlmutter, M. A., Best, C. J., Gillespie, J. W., Gathright, Y., Gonzalez, S., Velasco, A., Linehan, W. M., Emmert-Buck, M. R., Chuaqui, R. F. Comparison of snap freezing versus ethanol fixation for gene expression profiling of tissue specimens. J Mol Diagn. 2004 Nov; 6: 371-7

156260 Permpongkosol, S., Link, R. E., Kavoussi, L. R. and Solomon, S. B. Temperature measurements of the low-attenuation radiographic ice ball during CT-guided renal cryoablation. Cardiovasc Intervent Radiol. 2008; 31: 116-21

128540 Pernkopf, D., Plas, E., Lang, T., Daha, K., Kubin, K., Treu, T., Pfluger, H. Uroflow nomogram for male adolescents. J Urol. 2005 Oct; 174: 1436-9; discussion 1439

153140 Perrin, P. Editorial comment on: The immediate and 6-mo reproducibility of pressure-flow studies in men with benign prostatic enlargement. Eur Urol. 2007; 52: 1194

124360 Perrin, P., Marionneau, N., Cucherat, M., Taieb, C. Relationship between lower urinary tract symptoms frequency assessed by the IPSS and bothersomeness (SPI) among men older than 50 years old. Eur Urol. 2005 Oct; 48: 601-7

120070 Petas, A., Isotalo, T., Talja, M., Tammela, T. L., Valimaa, T., Tormala, P. A randomised study to evaluate the efficacy of a biodegradable stent in the prevention of postoperative urinary retention after interstitial laser coagulation of the prostate. Scand J Urol Nephrol. 2000 Aug; 34: 262-6

122150 Peter, J., Unverzagt, C., Hoesel, W. Analysis of free prostate-specific antigen (PSA) after chemical release from the complex with alpha(1)-antichymotrypsin (PSA-ACT). Clin Chem. 2000 Apr; 46: 474-82

139950 Peters, T. J. The design and analysis of randomized controlled trials of treatments for lower urinary tract symptoms. BJU Int. 2000 Mar; 85 Suppl 1: 3-9

140580 Peters, T. J. The Relationship between LUTS and sexual function. Prostate Cancer Prostatic Dis. 2001; 4: S2-S6

101880 Peterson, M. D., Matlaga, B. R., Kim, S. C., Kuo, R. L., Soergel, T. M., Watkins, S. L., Lingeman, J. E. Holmium laser enucleation of the prostate for men with urinary retention. J Urol. 2005 Sep; 174: 998-1001; discussion 1001

109970 Petraki, C. D., Gregorakis, A. K., Papanastasiou, P. A., Karavana, V. N., Luo, L. Y., Diamandis, E. P. Immunohistochemical localization of human kallikreins 6, 10 and 13 in benign and malignant prostatic tissues. Prostate Cancer Prostatic Dis. 2003; 6: 223-7

161730 Pfeiffer, G. M., Giacomarra, M. Benign prostatic hyperplasia. A review of diagnostic and treatment options. Adv Nurse Pract. 1999 Apr; 7: 31-6; quiz 37-8

101800 Pfister, C., Basuyau, J. P. Current usefulness of free/total PSA ratio in the diagnosis of prostate cancer at an early stage. World J Urol. 2005 Sep; 23: 236-42

150290 Phadnis, J., Pilling, J. E., Evans, T. W. and Goldstraw, P. Abdominal compartment syndrome: a rare complication of plication of the diaphragm. Ann Thorac Surg. 2006; 82: 334-6

106960 Pham, H., Banerjee, T., Ziboh, V. A. Suppression of cyclooxygenase-2 overexpression by 15S-hydroxyeicosatrienoic acid in androgen-dependent prostatic adenocarcinoma cells. Int J Cancer. 2004 Aug 20; 111: 192-7

120620 Philpot, C. D., Morley, J. E. Health issues unique to the aging man. Geriatr Nurs. 2000 Sep-Oct; 21: 234-9; quiz 240-1

105590 Phipps, S., Habib, F. K., McNeill, A. Quantitative morphometric analysis of individual resected prostatic tissue specimens, using immunohistochemical staining and colour-image analysis. BJU Int. 2004 Oct; 94: 919-21

103130 Phipps, S., Yang, T. H., Habib, F. K., Reuben, R. L., McNeill, S. A. Measurement of the mechanical characteristics of benign prostatic tissue: a novel method for assessing benign prostatic disease. Urology. 2005 May; 65: 1024-8

101760 Phipps, S., Yang, T. H., Habib, F. K., Reuben, R. L., McNeill, S. A. Measurement of tissue mechanical characteristics to distinguish between benign and malignant prostatic disease. Urology. 2005 Aug; 66: 447-50

126440 Piaggio, L., Franc-Guimond, J., Figueroa, T. E., Barthold, J. S., Gonzalez, R. Comparison of laparoscopic and open partial nephrectomy for duplication anomalies in children. J Urol. 2006 Jun; 175: 2269-73

101830 Piironen, T., Haese, A., Huland, H., Steuber, T., Christensen, I. J., Brunner, N., Dano, K., Hoyer-Hansen, G., Lilja, H. Enhanced discrimination of benign from malignant prostatic disease by selective measurements of cleaved forms of urokinase receptor in serum. Clin Chem. 2006 May; 52: 838-44

118740 Piironen, T., Nurmi, M., Irjala, K., Heinonen, O., Lilja, H., Lovgren, T., Pettersson, K. Measurement of circulating forms of prostate-specific antigen in whole blood immediately after venipuncture: implications for point-of-care testing. Clin Chem. 2001 Apr; 47: 703-11

133800 Pilebro, B., Johansson, R., Damber, L., Damber, J. E., Stattin, P. Population-based study of prostate-specific antigen testing and prostate cancer detection in clinical practice in northern Sweden. Scand J Urol Nephrol. 2003; 37: 210-2

115630 Pilpel, D., Porath, A., Peleg, A. Quantitative evaluation of prostatectomy for benign prostatic hypertrophy under a national health insurance law: a multi-centre study. J Eval Clin Pract. 2002 Feb; 8: 18-Sep

134350 Pimpalwar, A., Chowdhary, S. K., Rao, K. L. Duplication of pouch colon associated with duplication of the lower genitourinary tract. J Pediatr Surg. 2003 Feb; 38: e1

156350 Pinggera, G. M., Mitterberger, M., Pallwein, L., Schuster, A., Herwig, R., Frauscher, F., Bartsch, G. and Strasser, H. alpha-Blockers improve chronic ischaemia of the lower urinary tract in patients with lower urinary tract symptoms. BJU Int. 2008; 101: 319-24

155680 Pinkawa, M., Fischedick, K., Asadpour, B., Gagel, B., Piroth, M. D., Nussen, S. and Eble, M. J. Toxicity profile with a large prostate volume after external beam radiotherapy for localized prostate cancer. Int J Radiat Oncol Biol Phys. 2008; 70: 83-9

164470 Pinnock, C. B., Dadds, L., Marshall, V. R., Roxby, D. Bladder mucosal cell abnormalities and symptomatic outcome after transurethral resection of the prostate. Urology. 1999 Nov; 54: 834-8

102170 Pinsky, P. F., Kramer, B. S., Crawford, E. D., Grubb, R. L., Urban, D. A., Andriole, G. L., Chia, D., Levin, D. L., Gohagan, J. K. Prostate volume and prostate-specific antigen levels in men enrolled in a large screening trial. Urology. 2006 Aug; 68: 352-6

155400 Pipinikas, C. P., Nair, S. B., Kirby, R. S., Carter, N. D. and Fenske, C. D. Measurement of blood E2F3 mRNA in prostate cancer by quantitative RT-PCR: a preliminary study. Biomarkers. 2007; 12: 541-57

112740 Plante, M. K., Bunnell, M. L., Trotter, S. J., Jackson, T. L., Esenler, A. C., Zvara, P. Transurethral prostatic tissue ablation via a single needle delivery system: initial experience with radio-frequency energy and ethanol. Prostate Cancer Prostatic Dis. 2002; 5: 183-8

106940 Plante, M. K., Folsom, J. B., Zvara, P. Prostatic tissue ablation by injection: a literature review. J Urol. 2004 Jul; 172: 20-6

153210 Plante, M. K., Marks, L. S., Anderson, R., Amling, C., Rukstalis, D., Badlani, G., Getlin, L. and Vang, E. Phase I/II examination of transurethral ethanol ablation of the prostate for the treatment of symptomatic benign prostatic hyperplasia. J Urol. 2007; 177: 1030-5; discussion 1035

160690 Planz, B., Aretz, H. T., Wang, Q., Tabatabaei, S., Kirley, S. D., Lin, C. W., McDougal, W. S. Immunolocalization of the keratinocyte growth factor in benign and neoplastic human prostate and its relation to androgen receptor. Prostate. 1999 Dec 1; 41: 233-42

110640 Planz, B., Kalem, T., Sprenger, C., Deix, T., Djavan, B., Hanke, P. A prospective randomized study of combined visual laser ablation and transurethral resection of the prostate versus transurethral prostatectomy alone. Urol Int. 2003; 71: 26-30

108680 Platz, E. A., De Marzo, A. M. Epidemiology of inflammation and prostate cancer. J Urol. 2004 Feb; 171: S36-40

122760 Platz, E. A., Kawachi, I., Rimm, E. B., Willett, W. C., Giovannucci, E. Race, ethnicity and benign prostatic hyperplasia in the health professionals follow-up study. J Urol. 2000 Feb; 163: 490-5

136050 Platz, E. A., Smit, E., Curhan, G. C., Nyberg, L. M., Giovannucci, E. Prevalence of and racial/ethnic variation in lower urinary tract symptoms and noncancer prostate surgery in U.S. men. Urology. 2002 Jun; 59: 877-83

138040 Podesta, M. L., Ruarte, A., Herrera, M., Medel, R., Castera, R. Bladder functional outcome after delayed vesicostomy closure and antireflux surgery in young infants with 'primary' vesico-ureteric reflux. BJU Int. 2001 Apr; 87: 473-9

128210 Podnar, S., Trsinar, B., Vodusek, D. B. Bladder dysfunction in patients with cauda equina lesions. Neurourol Urodyn. 2006; 25: 23-31

100460 Pointis, G., Fiorini, C., Defamie, N., Segretain, D. Gap junctional communication in the male reproductive system. Biochim Biophys Acta. 2005 Dec 20; 1719: 102-16

112280 Poirier, D. Inhibitors of 17 beta-hydroxysteroid dehydrogenases. Curr Med Chem. 2003 Mar; 10: 453-77

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

163520 Pokorna, E., Vitko, S., Chadimova, M., Schuck, O. Adverse effect of donor arteriolosclerosis on graft outcome after renal transplantation. Nephrol Dial Transplant. 2000 May; 15: 705-10

116250 Polepalle, S., Monga, M. Interstitial laser therapy for benign prostatic hyperplasia in the anticoagulated patient. Tech Urol. 2001 Dec; 7: 285-7

129050 Polliack, T., Bluvshtein, V., Philo, O., Ronen, J., Gelernter, I., Luttwak, Z. P., Hart, J., Catz, A. Clinical and economic consequences of volume- or time-dependent intermittent catheterization in patients with spinal cord lesions and neuropathic bladder. Spinal Cord. 2005 Oct; 43: 615-9

107360 Polnaszek, N., Kwabi-Addo, B., Wang, J., Ittmann, M. FGF17 is an autocrine prostatic epithelial growth factor and is upregulated in benign prostatic hyperplasia. Prostate. 2004 Jun 15; 60: 18-24

164490 Polyak, M. M., Arrington, B. O., Kapur, S., Stubenbord, W. T., Kinkhabwala, M. Calcium ion concentration of machine perfusate predicts early graft function in expanded criteria donor kidneys. Transpl Int. 1999; 12: 378-82

164020 Polyak, M. M., Arrington, B. O., Kapur, S., Stubenbord, W. T., Kinkhabwala, M. Donor treatment with phentolamine mesylate improves machine preservation dynamics and early renal allograft function. Transplantation. 2000 Jan 15; 69: 184-6

165200 Polyak, M. M., Arrington, B. O., Stubenbord, W. T., Kapur, S., Kinkhabwala, M. Prostaglandin E1 influences pulsatile preservation characteristics and early graft function in expanded criteria donor kidneys. J Surg Res. 1999 Jul; 85: 17-25

106800 Pomara, G., Morelli, G., Pomara, S., Taddei, S., Ghiadoni, L., Dinelli, N., Travaglini, F., Dicuio, M., Mondaini, N., Salvetti, A., Selli, C. Cardiovascular parameter changes in patients with erectile dysfunction using pde-5 inhibitors: a study with sildenafil and vardenafil. J Androl. 2004 Jul-Aug; 25: 625-9

115190 Pomer, S., Dobrowolski, Z. F. The therapy of benign prostatic hyperplasia using less-invasive procedures: the current situation. BJU Int. 2002 May; 89: 773-5

151090 Pompeo, A. C., Rosenblatt, C., Bertero, E., CT, D. A. R., Cairoli, C. E., Damiao, R., Wroclawski, E. R., Koff, W. J., Mesquita, F. and Pinheiro, G. E. A randomised, double-blind study comparing the efficacy and tolerability of controlled-release doxazosin and tamsulosin in the treatment of benign prostatic hyperplasia in Brazil. Int J Clin Pract. 2006; 60: 1172-7

104210 Ponchietti, R., Martorana, G., Di Loro, F., Bertaccini, A., Nesi, G., Grigioni, W. F., Granchi, S., Breschi, L., Biagi, E., Masotti, L. A novel spectral ultrasonic differentiation method for marking regions of interest in biological tissue: in vitro results for prostate. Arch Ital Urol Androl. 2004 Dec; 76: 147-53

126510 Ponholzer, A., Brossner, C., Struhal, G., Marszalek, M., Madersbacher, S. Lower urinary tract symptoms, urinary incontinence, sexual function and quality of life after radical prostatectomy and external beam radiation therapy: real life experience in Austria. World J Urol. 2006 Aug; 24: 325-30

155120 Ponholzer, A., Rauchenwald, M. and Madersbacher, S. Re: Sildenafil citrate improves erectile function and urinary symptoms in men with erectile dysfunction and lower urinary tract symptoms associated with benign prostatic hyperplasia: a randomized, double-blind trial: K. T. McVary, W. Monnig, J. L. Camps, . J Urol. 2007; 178: 1121-2; author reply 1122-3

130410 Ponholzer, A., Temml, C., Mock, K., Marszalek, M., Obermayr, R., Madersbacher, S. Prevalence and risk factors for erectile dysfunction in 2869 men using a validated questionnaire. Eur Urol. 2005 Jan; 47: 80-5; discussion 85-6

126960 Ponholzer, A., Temml, C., Obermayr, R. P., Rauchenwald, M., Madersbacher, S. The association between lower urinary tract symptoms and renal function in men: a cross-sectional and 5-year longitudinal analysis. J Urol. 2006 Apr; 175: 1398-402

130730 Ponholzer, A., Temml, C., Obermayr, R., Madersbacher, S. Association between lower urinary tract symptoms and erectile dysfunction. Urology. 2004 Oct; 64: 772-6

126940 Ponholzer, A., Temml, C., Wehrberger, C., Marszalek, M., Madersbacher, S. The association between vascular risk factors and lower urinary tract symptoms in both sexes. Eur Urol. 2006 Sep; 50: 581-6

125200 Ponsky, L. E., Streem, S. B. Retrograde endopyelotomy: a comparative study of hot-wire balloon and ureteroscopic laser. J Endourol. 2006 Oct; 20: 823-6

102750 Pontes, E. R., Matos, L. C., da Silva, E. A., Xavier, L. S., Diaz, B. L., Small, I. A., Reis, E. M., Verjovski-Almeida, S., Barcinski, M. A., Gimba, E. R. Auto-antibodies in prostate cancer: humoral immune response to antigenic determinants coded by the differentially expressed transcripts FLJ23438 and VAMP3. Prostate. 2006 Oct 1; 66: 1463-73

164660 Ponticelli, C., Villa, M., Banfi, G., Cesana, B., Pozzi, C., Pani, A., Passerini, P., Farina, M., Grassi, C., Baroli, A. Can prolonged treatment improve the prognosis in adults with focal segmental glomerulosclerosis?. Am J Kidney Dis. 1999 Oct; 34: 618-25

113630 Pool, J. L., Kirby, R. S. Clinical significance of alpha1-adrenoceptor selectivity in the management of benign prostatic hyperplasia. Int Urol Nephrol. 2001; 33: 407-12

128780 Popat, R., Apostolidis, A., Kalsi, V., Gonzales, G., Fowler, C. J., Dasgupta, P. A comparison between the response of patients with idiopathic detrusor overactivity and neurogenic detrusor overactivity to the first intradetrusor injection of botulinum-A toxin. J Urol. 2005 Sep; 174: 984-9

112670 Pope, H. G. , Jr., Cohane, G. H., Kanayama, G., Siegel, A. J., Hudson, J. I. Testosterone gel supplementation for men with refractory depression: a randomized, placebo-controlled trial. Am J Psychiatry. 2003 Jan; 160: 105-11

137970 Porcaro, A. B., D'Amico, A., Ficarra, V., Balzarro, M., Righetti, R., Martignoni, G., Cavalleri, S., Malossini, G. Nephrogenic adenoma of the urinary bladder: our experience and review of the literature. Urol Int. 2001; 66: 152-5

113160 Porkka, K. P., Helenius, M. A., Visakorpi, T. Cloning and characterization of a novel six-transmembrane protein STEAP2, expressed in normal and malignant prostate. Lab Invest. 2002 Nov; 82: 1573-82

110560 Porkka, K. P., Nupponen, N. N., Tammela, T. L., Vessella, R. L., Visakorpi, T. Human pHyde is not a classical tumor suppressor gene in prostate cancer. Int J Cancer. 2003 Sep 20; 106: 729-35

109570 Porkka, K. P., Tammela, T. L., Vessella, R. L., Visakorpi, T. RAD21 and KIAA0196 at 8q24 are amplified and overexpressed in prostate cancer. Genes Chromosomes Cancer. 2004 Jan; 39: 10-Jan

119370 Porkka, K. P., Visakorpi, T. Detection of differentially expressed genes in prostate cancer by combining suppression subtractive hybridization and cDNA library array. J Pathol. 2001 Jan; 193: 73-9

100160 Porpiglia, F., Terrone, C., Cossu, M., Renard, J., Grande, S., Scarpa, R. M. Real time ultrasound in laparoscopic bladder diverticulectomy. Int J Urol. 2005 Oct; 12: 933-5

119690 Porru, D., Campus, G., Caria, A., Madeddu, G., Cucchi, A., Rovereto, B., Scarpa, R. M., Pili, P., Usai, E. Impact of early pelvic floor rehabilitation after transurethral resection of the prostate. Neurourol Urodyn. 2001; 20: 53-9

104460 Porru, D., Scarpa, R. M., Prezioso, D., Bertaccini, A., Rizzi, C. A. Home and office uroflowmetry for evaluation of LUTS from benign prostatic enlargement. Prostate Cancer Prostatic Dis. 2005; 8: 45-9

128990 Porter, C. R., Latchamsetty, K. C., Coogan, C. L., Kim, J. Absence of lower urinary tract symptoms is an independent predictor for cancer at prostate biopsy, but prostate-specific antigen is not: results from a prospective series of 569 patients. Clin Prostate Cancer. 2005 Jun; 4: 50-4

126460 Portis, A. J., Rygwall, R., Holtz, C., Pshon, N., Laliberte, M. Ureteroscopic laser lithotripsy for upper urinary tract calculi with active fragment extraction and computerized tomography followup. J Urol. 2006 Jun; 175: 2129-33; discussion 2133-4

103440 Postma, R., Schroder, F. H., van der Kwast, T. H. Atrophy in prostate needle biopsy cores and its relationship to prostate cancer incidence in screened men. Urology. 2005 Apr; 65: 745-9

160380 Potter, S. R., Partin, A. W. Prostatitis syndromes and benign prostatic hyperplasia. Semin Roentgenol. 1999 Oct; 34: 256-68

139710 Potts, J. M., Sharma, R., Pasqualotto, F., Nelson, D., Hall, G., Agarwal, A. Association of ureaplasma urealyticum with abnormal reactive oxygen species levels and absence of leukocytospermia. J Urol. 2000 Jun; 163: 1775-8

106830 Poulakis, V., Dahm, P., Witzsch, U., Sutton, A. J., Becht, E. Transurethral electrovaporization vs transurethral resection for symptomatic prostatic obstruction: a meta-analysis. BJU Int. 2004 Jul; 94: 89-95

100310 Poulakis, V., Ferakis, N., Witzsch, U., de Vries, R., Becht, E. Erectile dysfunction after transurethral prostatectomy for lower urinary tract symptoms: results from a center with over 500 patients. Asian J Androl. 2006 Jan; 8: 69-74

138070 Poulin, E. C., Schlachta, C. M., Seshadri, P. A., Cadeddu, M. O., Gregoire, R., Mamazza, J. Septic complications of elective laparoscopic colorectal resection. Surg Endosc. 2001 Feb; 15: 203-8

104230 Power, R. E., Hickey, D. P., Little, D. M. Urological evaluation prior to renal transplantation. Transplant Proc. 2004 Dec; 36: 2962-7

114970 Prager, N., Bickett, K., French, N., Marcovici, G. A randomized, double-blind, placebo-controlled trial to determine the effectiveness of botanically derived inhibitors of 5-alpha-reductase in the treatment of androgenetic alopecia. J Altern Complement Med. 2002 Apr; 8: 143-52

114810 Prakash, K., Pirozzi, G., Elashoff, M., Munger, W., Waga, I., Dhir, R., Kakehi, Y., Getzenberg, R. H. Symptomatic and asymptomatic benign prostatic hyperplasia: molecular differentiation by using microarrays. Proc Natl Acad Sci U S A. 2002 May 28; 99: 7598-603

122780 Prakash, S., Robbins, P. W. Glycotyping of prostate specific antigen. Glycobiology. 2000 Feb; 10: 173-6

133750 Prat, C., Dominguez, J., Rodrigo, C., Gimenez, M., Azuara, M., Jimenez, O., Gali, N., Ausina, V. Elevated serum procalcitonin values correlate with renal scarring in children with urinary tract infection. Pediatr Infect Dis J. 2003 May; 22: 438-42

114450 Preuss, H. G., Marcusen, C., Regan, J., Klimberg, I. W., Welebir, T. A., Jones, W. A. Randomized trial of a combination of natural products (cernitin, saw palmetto, B-sitosterol, vitamin E) on symptoms of benign prostatic hyperplasia (BPH). Int Urol Nephrol. 2001; 33: 217-25

137300 Prezioso, D., Scarpa, R. M., Zattoni, F., Viaggi, S., Termini, R., Berioli, S., Rizzi, C. A. Aims and methods. LUTS suggestive of BPH. Eur Urol. 2001; 40 Suppl 1: 4-Feb

116130 Price, D. Potential mechanisms of action of superselective alpha(1)-adrenoceptor antagonists. Eur Urol. 2001; 40 Suppl 4: 5-11

116180 Price, R. R., Morris, D. P., Biswas, G., Smith, M. P., Schwinn, D. A. Acute agonist-mediated desensitization of the human alpha 1a-adrenergic receptor is primarily independent of carboxyl terminus regulation: implications for regulation of alpha 1aAR splice variants. J Biol Chem. 2002 Mar 15; 277: 9570-9

139960 Probert, J. L., Mills, R., Persad, R. A., Sethia, K. K. Imaging assessment of uncomplicated bladder outflow obstruction. Int J Clin Pract. 2000 Jan-Feb; 54: 22-4

120380 Pruthi, R. S. The dynamics of prostate-specific antigen in benign and malignant diseases of the prostate. BJU Int. 2000 Oct; 86: 652-8

132320 Pugia, M. J., Sommer, R., Corey, P., Anderson, L., Gleason, S., Jortani, S. A., Elin, R. J., Gopual, D. L., Valdes, R. , Jr., Lott, J. A. The uristatin dipstick is useful in distinguishing upper respiratory from urinary tract infections. Clin Chim Acta. 2004 Mar; 341: 73-81

119280 Pullen, M., Thomas, K., Wu, H., Nambi, P. Stimulation of Hyaluronan synthetase by platelet-derived growth factor bb in human prostate smooth muscle cells. Pharmacology. 2001 Feb; 62: 103-6

153070 Pulukuri, S. M., Estes, N., Patel, J. and Rao, J. S. Demethylation-linked activation of urokinase plasminogen activator is involved in progression of prostate cancer. Cancer Res. 2007; 67: 930-9

101390 Punglia, R. S., D'Amico, A. V., Catalona, W. J., Roehl, K. A., Kuntz, K. M. Impact of age, benign prostatic hyperplasia, and cancer on prostate-specific antigen level. Cancer. 2006 Apr 1; 106: 1507-13

138270 Puppo, P. Do we know everything about alpha-blockade in the management of lower urinary tract symptoms?. Eur Urol. 2001 Jan; 39 Suppl 2: 38-41

118440 Puppo, P. Long-term effects on BPH of medical and instrumental therapies. Eur Urol. 2001 Mar; 39 Suppl 6: 2-6

136320 Purcell, K., Fergie, J. Concurrent serious bacterial infections in 2396 infants and children hospitalized with respiratory syncytial virus lower respiratory tract infections. Arch Pediatr Adolesc Med. 2002 Apr; 156: 322-4

163470 Puzianowska-Kuznicka, M., Nauman, A., Madej, A., Tanski, Z., Cheng, S., Nauman, J. Expression of thyroid hormone receptors is disturbed in human renal clear cell carcinoma. Cancer Lett. 2000 Jul 31; 155: 145-52

154470 Pylar, J., Wills, C. E., Lillie, J., Rovner, D. R., Kelly-Blake, K. and Holmes-Rovner, M. Men's interpretations of graphical information in a videotape decision aid. Health Expect. 2007; 10: 184-93

121310 Pypno, W., Husiatynski, W. Treatment of a benign prostatic hyperplasia by Nd:YAG laser - own experience. Eur Urol. 2000 Aug; 38: 194-8

111650 Pytel, Y. A., Vinarov, A., Lopatkin, N., Sivkov, A., Gorilovsky, L., Raynaud, J. P. Long-term clinical and biologic effects of the lipidosterolic extract of Serenoa repens in patients with symptomatic benign prostatic hyperplasia. Adv Ther. 2002 Nov-Dec; 19: 297-306

125290 Qazi, H. A., Ananthakrishnan, K., Manikandan, R., Fordham, M. V. Stuttering priapism after ingestion of alfuzosin. Urology. 2006 Oct; 68: 890.e5-6

102200 Qin, S., Ferdinand, A. S., Richie, J. P., O'Leary, M. P., Mok, S. C., Liu, B. C. Chromatofocusing fractionation and two-dimensional difference gel electrophoresis for low abundance serum proteins. Proteomics. 2005 Aug; 5: 3183-92

104400 Qiu, Y., DU, C., Shen, X. Transurethral resection in women with lower urinary tract symptoms. Int J Urol. 2004 Dec; 11: 1097-103

113520 Qu, Y., Adam, B. L., Yasui, Y., Ward, M. D., Cazares, L. H., Schellhammer, P. F., Feng, Z., Semmes, O. J., Wright, G. L. , Jr. Boosted decision tree analysis of surface-enhanced laser desorption/ionization mass spectral serum profiles discriminates prostate cancer from noncancer patients. Clin Chem. 2002 Oct; 48: 1835-43

127470 Quek, K. F. Factors affecting health-related quality of life among patients with lower urinary tract symptoms. Int J Urol. 2005 Dec; 12: 1032-6

135960 Quek, K. F., Chua, C. B., Low, W. Y., Razack, A. H., Loh, C. S. Reliability and validity of the Malay version of the Health-Related Quality of Life instrument in a Malaysian population. BJU Int. 2002 Jul; 90: 37-40

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

104420 Quek, K. F., Chua, C. B., Razack, A. H., Low, W. Y., Loh, C. S. Construction of the Mandarin version of the International Prostate Symptom Score inventory in assessing lower urinary tract symptoms in a Malaysian population. Int J Urol. 2005 Jan; 12: 39-45

136970 Quek, K. F., Loh, C. S., Low, W. Y., Razack, A. H. Quality of life assessment before and after transurethral resection of the prostate in patients with lower urinary tract symptoms. World J Urol. 2001 Nov; 19: 358-64

136940 Quek, K. F., Loh, C. S., Low, W. Y., Razack, A. H. The effects of treating lower urinary tract symptoms on sexual function. Med J Malaysia. 2001 Jun; 56: 158-66

134660 Quek, K. F., Loh, C. S., Low, W. Y., Razack, A. H., Chua, C. B. The effects of treating lower urinary tract symptoms on health-related quality of life: a short-term outcome. Singapore Med J. 2002 Aug; 43: 391-8

134260 Quek, K. F., Loh, C. S., Low, W. Y., Razack, A. H., Dublin, N. The male marital satisfaction following treatment for lower urinary tract symptoms. J Sex Marital Ther. 2003 Mar-Apr; 29: 173-6

135630 Quek, K. F., Low, W. Y., Razack, A. H., Chua, C. B., Loh, C. S. Reliability and validity of the Malay version of the International Index of Erectile Function (IIEF-15) in the Malaysian population. Int J Impot Res. 2002 Aug; 14: 310-5

108450 Quek, K. F., Low, W. Y., Razack, A. H., Chua, C. B., Loh, C. S. The sensitivity of the Malay version of Brief Manual of Sexual Function Inventory in assessing erectile dysfunction secondary to benign prostatic hyperplasia. Med J Malaysia. 2003 Aug; 58: 356-64

133970 Quek, K. F., Low, W. Y., Razack, A. H., Chua, C. B., Loh, C. S., Dublin, N. The performance properties of the International Index of Erectile Function (IIEF-15) in assessing erectile dysfunction in patients with lower urinary tract symptoms. Med J Malaysia. 2002 Dec; 57: 445-53

117070 Quek, K. F., Low, W. Y., Razack, A. H., Loh, C. S. Reliability and validity of the General Health Questionnaire (GHQ-12) among urological patients: a Malaysian study. Psychiatry Clin Neurosci. 2001 Oct; 55: 509-13

137690 Quek, K. F., Low, W. Y., Razack, A. H., Loh, C. S. Reliability and validity of the International Prostate Symptom Score in a Malaysian population. BJU Int. 2001 Jul; 88: 21-5

120390 Quek, K. F., Low, W. Y., Razack, A. H., Loh, C. S. The psychological effects of treatments for lower urinary tract symptoms. BJU Int. 2000 Oct; 86: 630-3

130460 Quek, K. F., Low, W. Y., Razack, A. H., Loh, C. S., Chua, C. B. Reliability and validity of the Spielberger State-Trait Anxiety Inventory (STAI) among urological patients: a Malaysian study. Med J Malaysia. 2004 Jun; 59: 258-67

136630 Quek, K. F., Low, W. Y., Razack, A. H., Loh, C. S., Chua, C. B. The quality of life outcome following treatment for lower urinary tract symptoms. Asia Pac J Public Health. 2000; 12: 107-17

136710 Quek, K. F., Low, W. Y., Razack, A. H., Sin Loh, C., Chua, C. B. Reliability and validity of the Malay version of the International Prostate Symptom Score in the Malaysian population. J Urol. 2002 Mar; 167: 1359-62

130770 Quek, K. F., Razack, A. H., Chua, C. B., Low, W. Y., Loh, C. S. Effect of treating lower urinary tract symptoms on anxiety, depression and psychiatric morbidity: a one-year study. Int J Urol. 2004 Oct; 11: 848-55

131550 Quek, K. F., Razack, A. H., Chua, C. B., Low, W. Y., Loh, C. S. Sexual function outcomes following treatment for lower urinary tract symptoms. A one-year study. Med J Malaysia. 2003 Dec; 58: 735-42

130310 Quek, P., Tay, L. H. Morbidity and significant bacteriuria after urodynamic studies. Ann Acad Med Singapore. 2004 Nov; 33: 754-7

111220 Quinn, M. J. Benign prostatic hyperplasia and sexual dysfunction. Lancet. 2003 May 3; 361: 1562

139770 Quintero, R. A., Shukla, A. R., Homsy, Y. L., Bukkapatnam, R. Successful in utero endoscopic ablation of posterior urethral valves: a new dimension in fetal urology. Urology. 2000 May 1; 55: 774

165440 Qvist, E., Laine, J., Ronnholm, K., Jalanko, H., Leijala, M., Holmberg, C. Graft function 5-7 years after renal transplantation in early childhood. Transplantation. 1999 Apr 15; 67: 1043-9

105370 Rabasseda, X. Dutasteride: a potent dual inhibitor of 5-alpha-reductase for benign prostatic hyperplasia. Drugs Today (Barc). 2004 Aug; 40: 649-61

150320 Rabien, A., Burkhardt, M., Jung, M., Fritzsche, F., Ringsdorf, M., Schicktanz, H., Loening, S. A., Kristiansen, G. and Jung, K. Decreased RECK expression indicating proteolytic imbalance in prostate cancer is associated with higher tumor aggressiveness and risk of prostate-specific antigen relapse after radical prostatectomy. Eur Urol. 2007; 51: 1259-66

155070 Raes, A., Donckerwolcke, R., Craen, M., Hussein, M. C. and Vande Walle, J. Renal hemodynamic changes and renal functional reserve in children with type I diabetes mellitus. Pediatr Nephrol. 2007; 22: 1903-9

153320 Raes, A., Matthys, D., Donckerwolcke, R., Craen, M., Van Aken, S. and Vande Walle, J. Renal functional changes in relation to hemodynamic parameters during exercise test in normoalbuminuric insulin-dependent children. Acta Paediatr. 2007; 96: 548-51

130040 Rafique, M., Javed, A. A. Role of intravenous urography and transabdominal ultrasonography in the diagnosis of bladder carcinoma. Int Braz J Urol. 2004 May-Jun; 30: 185-90; discussion 191

105890 Ragavan, N., Hewitt, R., Cooper, L. J., Ashton, K. M., Hindley, A. C., Nicholson, C. M., Fullwood, N. J., Matanhelia, S. S., Martin, F. L. CYP1B1 expression in prostate is higher in the peripheral than in the transition zone. Cancer Lett. 2004 Nov 8; 215: 69-78

152300 Ragnarson Tennvall, G., Hjelmgren, J. and Malmberg, L. Under what conditions is feedback microwave thermotherapy (ProstaLund Feedback Treatment) cost-effective in comparison with alpha-blockade in the treatment of benign prostatic hyperplasia and lower urinary tract symptoms?. Scand J Urol Nephrol. 2006; 40: 495-505

123120 Rahardjo, D., Soebadi, D. M., Sugandi, S., Birowo, P., Djati, W., Wahyudi, I. Efficacy and safety of tamsulosin hydrochloride compared to doxazosin in the treatment of Indonesian patients with lower urinary tract symptoms due to benign prostatic hyperplasia. Int J Urol. 2006 Nov; 13: 1405-9

111390 Raivio, T., Santti, H., Schatzl, G., Gsur, A., Haidinger, G., Palvimo, J. J., Janne, O. A., Madersbacher, S. Reduced circulating androgen bioactivity in patients with prostate cancer. Prostate. 2003 May 15; 55: 194-8

100750 Raja, J., Ramachandran, N., Munneke, G., Patel, U. Current status of transrectal ultrasound-guided prostate biopsy in the diagnosis of prostate cancer. Clin Radiol. 2006 Feb; 61: 142-53

131410 Rajkumar, G. N., Conn, I. G. Botulinum toxin: a new dimension in the treatment of lower urinary tract dysfunction. Urology. 2004 Jul; 64: 8-Feb

103480 Ramakrishna, N. V., Vishwottam, K. N., Manoj, S., Koteshwara, M., Wishu, S., Varma, D. P. Rapid, simple and highly sensitive LC-ESI-MS/MS method for the quantification of tamsulosin in human plasma. Biomed Chromatogr. 2005 Dec; 19: 709-19

152670 Ramankulov, A., Lein, M., Kristiansen, G., Loening, S. A. and Jung, K. Plasma osteopontin in comparison with bone markers as indicator of bone metastasis and survival outcome in patients with prostate cancer. Prostate. 2007; 67: 330-40

160780 Ramos, C. G., Carvahal, G. F., Mager, D. E., Haberer, B., Catalona, W. J. The effect of high grade prostatic intraepithelial neoplasia on serum total and percentage of free prostate specific antigen levels. J Urol. 1999 Nov; 162: 1587-90

119570 Ramsey, E. W. Benign prostatic hyperplasia: a review. Can J Urol. 2000 Dec; 7: 1135-43

120130 Ramsey, E. W., Dahlstrand, C. Durability of results obtained with transurethral microwave thermotherapy in the treatment of men with symptomatic benign prostatic hyperplasia. J Endourol. 2000 Oct; 14: 671-5

122740 Ramsey, E. W., Elhilali, M., Goldenberg, S. L., Nickel, C. J., Norman, R., Perreault, J. P., Piercy, B., Trachtenberg, J. Practice patterns of Canadian urologists in benign prostatic hyperplasia and prostate cancer. Canadian Prostate Health Council. J Urol. 2000 Feb; 163: 499-502

155100 Rana, A. M. and Sabooh, A. Management strategies and results for severely encrusted retained ureteral stents. J Endourol. 2007; 21: 628-32

152600 Rana, S., Sen, R., Kalra, R., Arora, B., Sharma, P. and Gahlawat, S. Immunohistochemical study of the expression of epidermal growth factor receptor in benign prostatic hypertrophy, prostatic intraepithelial neoplasia and prostatic carcinoma. Indian J Pathol Microbiol. 2006; 49: 495-9

138900 Ranchin, B., Chapuis, F., Dawhara, M., Canterino, I., Hadj-Aissa, A., Said, M. H., Parchoux, B., Dubourg, L., Pouillaude, J. M., Floret, D., Martin, X., Cochat, P. Vesicoureteral reflux after kidney transplantation in children. Nephrol Dial Transplant. 2000 Nov; 15: 1852-8

114820 Ranjan, M., Diffley, P., Stephen, G., Price, D., Walton, T. J., Newton, R. P. Comparative study of human steroid 5alpha-reductase isoforms in prostate and female breast skin tissues: sensitivity to inhibition by finasteride and epristeride. Life Sci. 2002 May 31; 71: 115-26

151380 Ranjan, P., Dalela, D. and Sankhwar, S. N. Diet and benign prostatic hyperplasia: implications for prevention. Urology. 2006; 68: 470-6

157020 Ransmayr, G. N., Holliger, S., Schletterer, K., Heidler, H., Deibl, M., Poewe, W., Madersbacher, H. and Kiss, G. Lower urinary tract symptoms in dementia with Lewy bodies, Parkinson disease, and Alzheimer disease. Neurology. 2008; 70: 299-303

128000 Rapidi, C. A., Karandreas, N., Katsifotis, C., Benroubi, M., Petropoulou, K., Theodorou, C. A combined urodynamic and electrophysiological study of diabetic cystopathy. Neurourol Urodyn. 2006; 25: 32-8

122300 Raskind, M. A., Dobie, D. J., Kanter, E. D., Petrie, E. C., Thompson, C. E., Peskind, E. R. The alpha1-adrenergic antagonist prazosin ameliorates combat trauma nightmares in veterans with posttraumatic stress disorder: a report of 4 cases. J Clin Psychiatry. 2000 Feb; 61: 129-33

151140 Rassweiler, J. J., Gozen, A. S., Erdogru, T., Sugiono, M. and Teber, D. Ureteral reimplantation for management of ureteral strictures: a retrospective comparison of laparoscopic and open techniques. Eur Urol. 2007; 51: 512-22; discussion 522-3

130500 Rassweiler, J. J., Schulze, M., Marrero, R., Frede, T., Palou Redorta, J., Bassi, P. Laparoscopic nephroureterectomy for upper urinary tract transitional cell carcinoma: is it better than open surgery?. Eur Urol. 2004 Dec; 46: 690-7

153610 Rassweiler, J., Schulze, M., Stock, C., Teber, D. and De La Rosette, J. Bipolar transurethral resection of the prostate--technical modifications and early clinical experience. Minim Invasive Ther Allied Technol. 2007; 16: 11-21

157290 Rastinehad, A. R., Caplin, D. M., Ost, M. C., VanderBrink, B. A., Lobko, I., Badlani, G. H., Weiss, G. H., Kavoussi, L. R. and Siegel, D. N. Selective arterial prostatic embolization (SAPE) for refractory hematuria of prostatic origin. Urology. 2008; 71: 181-4

102560 Rauhala, H. E., Porkka, K. P., Tolonen, T. T., Martikainen, P. M., Tammela, T. L., Visakorpi, T. Dual-specificity phosphatase 1 and serum/glucocorticoid-regulated kinase are downregulated in prostate cancer. Int J Cancer. 2005 Dec 10; 117: 738-45

120100 Ravery, V. Transurethral microwave thermotherapy v transurethral resection of prostate. J Endourol. 2000 Oct; 14: 693-6

103520 Ravindranath, M. H., Muthugounder, S., Presser, N., Ye, X., Brosman, S., Morton, D. L. Endogenous immune response to gangliosides in patients with confined prostate cancer. Int J Cancer. 2005 Sep 1; 116: 368-77

118210 Ravindranath, N., Wion, D., Brachet, P., Djakiew, D. Epidermal growth factor modulates the expression of vascular endothelial growth factor in the human prostate. J Androl. 2001 May-Jun; 22: 432-43

134800 Rawashdeh, Y. F., Hvistendahl, G. M., Kamperis, K., Hansen, M. N., Djurhuus, J. C. Demographics of enuresis patients attending a referral centre. Scand J Urol Nephrol. 2002; 36: 348-53

139180 Razi, A., Imani, B. Seminal vesicle cyst presenting with lower urinary tract symptoms and huge abdominal mass. J Urol. 2000 Oct; 164: 1309-10

152780 Razzaghi, M. R., Habibi, G., Djavid, G. E. and Gholamrezaee, H. Laser prostatectomy versus transurethral resection of prostate in the treatment of benign prostatic hyperplasia. Saudi Med J. 2007; 28: 68-72

117310 Recker, F., Kwiatkowski, M. K., Huber, A., Stamm, B., Lehmann, K., Tscholl, R. Prospective detection of clinically relevant prostate cancer in the prostate specific antigen range 1 to 3 ng./ml. combined with free-to-total ratio 20% or less: the Aarau experience. J Urol. 2001 Sep; 166: 851-5

134080 Reddy, P. P., Redman, J. F. The management of childhood voiding dysfunction. J Ark Med Soc. 2003 Mar; 99: 295-8

165160 Rees, C. R. Stents for atherosclerotic renovascular disease. J Vasc Interv Radiol. 1999 Jun; 10: 689-705

132890 Rees, J., Waldron, D., O'Boyle, C., Ewings, P., MacDonagh, R. Prospective vs retrospective assessment of lower urinary tract symptoms in patients with advanced prostate cancer: the effect of 'response shift'. BJU Int. 2003 Nov; 92: 703-6

109130 Rees, R. W., Foxwell, N. A., Ralph, D. J., Kell, P. D., Moncada, S., Cellek, S. Y-27632, a Rho-kinase inhibitor, inhibits proliferation and adrenergic contraction of prostatic smooth muscle cells. J Urol. 2003 Dec; 170: 2517-22

104870 Rehman, I., Azzouzi, A. R., Catto, J. W., Allen, S., Cross, S. S., Feeley, K., Meuth, M., Hamdy, F. C. Proteomic analysis of voided urine after prostatic massage from patients with prostate cancer: a pilot study. Urology. 2004 Dec; 64: 1238-43

104370 Rehman, I., Azzouzi, A. R., Cross, S. S., Deloulme, J. C., Catto, J. W., Wylde, N., Larre, S., Champigneuille, J., Hamdy, F. C. Dysregulated expression of S100A11 (calgizzarin) in prostate cancer and precursor lesions. Hum Pathol. 2004 Nov; 35: 1385-91

102320 Rehman, I., Cross, S. S., Catto, J. W., Leiblich, A., Mukherjee, A., Azzouzi, A. R., Leung, H. Y., Hamdy, F. C. Promoter hyper-methylation of calcium binding proteins S100A6 and S100A2 in human prostate cancer. Prostate. 2005 Dec 1; 65: 322-30

103030 Rehman, J., Khan, S. A., Sukkarieh, T., Chughtai, B., Waltzer, W. C. Extraperitoneal laparoscopic prostatectomy (adenomectomy) for obstructing benign prostatic hyperplasia: transvesical and transcapsular (Millin) techniques. J Endourol. 2005 May; 19: 491-6

104910 Reich, O., Bachmann, A., Siebels, M., Hofstetter, A., Stief, C. G., Sulser, T. High power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate in 66 high risk patients. J Urol. 2005 Jan; 173: 158-60

108540 Reich, O., Faul, P. The Band Electrode: ongoing experience with a novel TURP loop to improve hemostasis in 265 patients. Urol Int. 2004; 72: 40-5

123840 Reich, O., Gratzke, C., Stief, C. G. Techniques and long-term results of surgical procedures for BPH. Eur Urol. 2006 Jun; 49: 970-8; discussion 978

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

116950 Reichert, W., Michel, A., Hartmann, R. W., Jose, J. Stable expression of human 5alpha-reductase type II in COS1 cells due to chromosomal gene integration: a novel tool for inhibitor identification. J Steroid Biochem Mol Biol. 2001 Sep; 78: 275-84

165350 Reid, C. J., Harris, A. Expression of the MUC 6 mucin gene in development of the human kidney and male genital ducts. J Histochem Cytochem. 1999 Jun; 47: 817-22

125380 Reissfelder, C., Buhr, H. J., Ritz, J. P. What is the optimal time of surgical intervention after an acute attack of sigmoid diverticulitis: early or late elective laparoscopic resection?. Dis Colon Rectum. 2006 Dec; 49: 1842-8

120860 Reissmann, T., Schally, A. V., Bouchard, P., Riethmiiller, H., Engel, J. The LHRH antagonist cetrorelix: a review. Hum Reprod Update. 2000 Jul-Aug; 6: 322-31

160100 Reiter, W. The clinical value of the Enzymun-Test for total and free PSA--a multicentre evaluation. Anticancer Res. 1999 Nov-Dec; 19: 5559-62

102140 Reitz, A., Muntener, M., Haferkamp, A., Hohenfellner, M., Schurch, B. Targeting bladder outlet obstruction from benign prostatic enlargement via the nitric oxide/cGMP pathway?. BJU Int. 2005 Aug; 96: 250-3

134830 Reitz, A., Schmid, D. M., Curt, A., Knapp, P. A., Jensen, K., Schurch, B. Electrophysiological assessment of sensations arising from the bladder: are there objective criteria for subjective perceptions?. J Urol. 2003 Jan; 169: 190-4

164650 Remuzzi, A., Fassi, A., Bertani, T., Perico, N., Remuzzi, G. ACE inhibition induces regression of proteinuria and halts progression of renal damage in a genetic model of progressive nephropathy. Am J Kidney Dis. 1999 Oct; 34: 626-32

156960 Ren, J., Huan, Y., Wang, H., Chang, Y. J., Zhao, H. T., Ge, Y. L., Liu, Y. and Yang, Y. Dynamic contrast-enhanced MRI of benign prostatic hyperplasia and prostatic carcinoma: correlation with angiogenesis. Clin Radiol. 2008; 63: 153-9

154370 Rendeli, C., Ausili, E., Tabacco, F., Focarelli, B., Massimi, L., Caldarelli, M., Tamburrini, G. and Di Rocco, C. Urodynamic evaluation in children with lipomeningocele: timing for neurosurgery, spinal cord tethering and followup. J Urol. 2007; 177: 2319-24

156230 Renko, O., Savolainen, E. R., Loikkanen, I., Paavonen, T. K. and Vaarala, M. H. The androgen receptor CAG repeat length polymorphism associates with prostate volume in Finnish men with benign prostatic hyperplasia. DNA Cell Biol. 2008; 27: 109-13

152810 Resnick, M. I. and Roehrborn, C. G. Rapid onset of action with alfuzosin 10 mg once daily in men with benign prostatic hyperplasia: a randomized, placebo-controlled trial. Prostate Cancer Prostatic Dis. 2007; 10: 155-9

104130 Rey, D., Ducarme, G., Hoepffner, J. L., Staerman, F. Laparoscopic adenectomy: a novel technique for managing benign prostatic hyperplasia. BJU Int. 2005 Mar; 95: 676-8

151470 Reyes, M. J., Bajo, M. A., Hevia, C., Del Peso, G., Ros, S., de Miguel, A. G., Cirugeda, A., Castro, M. J., Sanchez-Tomero, J. A. and Selgas, R. Inherent high peritoneal transport and ultrafiltration deficiency: their mid-term clinical relevance. Nephrol Dial Transplant. 2007; 22: 218-23

137280 Reynard, J. Prostatic symptoms. All possible causes of lower urinary tract symptoms must be investigated. BMJ. 2001 Sep 29; 323: 750; author reply 751

107520 Reynard, J. M. Does anticholinergic medication have a role for men with lower urinary tract symptoms/benign prostatic hyperplasia either alone or in combination with other agents?. Curr Opin Urol. 2004 Jan; 14: 13-6

100890 Ribeiro, F. R., Diep, C. B., Jeronimo, C., Henrique, R., Lopes, C., Eknaes, M., Lingjaerde, O. C., Lothe, R. A., Teixeira, M. R. Statistical dissection of genetic pathways involved in prostate carcinogenesis. Genes Chromosomes Cancer. 2006 Feb; 45: 154-63

134750 Riccabona, M. Urinary tract infections in children. Curr Opin Urol. 2003 Jan; 13: 59-62

132400 Riccabona, M., Fotter, R. Urinary tract infection in infants and children: an update with special regard to the changing role of reflux. Eur Radiol. 2004 Mar; 14 Suppl 4: L78-88

132540 Ricci, L., Minardi, D., Romoli, M., Galosi, A. B., Muzzonigro, G. Acupuncture reflexotherapy in the treatment of sensory urgency that persists after transurethral resection of the prostate: a preliminary report. Neurourol Urodyn. 2004; 23: 58-62

157340 Rich, K. T. FPIN's clinical inquiries. Medical treatment of benign prostatic hyperplasia. Am Fam Physician. 2008; 77: 665-6

106770 Richardson, G. D., Robson, C. N., Lang, S. H., Neal, D. E., Maitland, N. J., Collins, A. T. CD133, a novel marker for human prostatic epithelial stem cells. J Cell Sci. 2004 Jul 15; 117: 3539-45

113280 Richter, F., Joyce, A., Fromowitz, F., Wang, S., Watson, J., Watson, R., Irwin, R. J. , Jr., Huang, H. F. Immunohistochemical localization of the retinoic Acid receptors in human prostate. J Androl. 2002 Nov-Dec; 23: 830-8

115030 Richter, S., Ringel, A., Sluzker, D. Combined cystolithotomy and transurethral resection of prostate: best management of infravesical obstruction and massive or multiple bladder stones. Urology. 2002 May; 59: 688-91

107830 Ricote, M., Garcia-Tunon, I., Bethencourt, F. R., Fraile, B., Paniagua, R., Royuela, M. Interleukin-1 (IL-1alpha and IL-1beta) and its receptors (IL-1RI, IL-1RII, and IL-1Ra) in prostate carcinoma. Cancer. 2004 Apr 1; 100: 1388-96

100850 Ricote, M., Garcia-Tunon, I., Bethencourt, F., Fraile, B., Onsurbe, P., Paniagua, R., Royuela, M. The p38 transduction pathway in prostatic neoplasia. J Pathol. 2006 Feb; 208: 401-7

110320 Ricote, M., Royuela, M., Garcia-Tunon, I., Bethencourt, F. R., Paniagua, R., Fraile, B. Pro-apoptotic tumor necrosis factor-alpha transduction pathway in normal prostate, benign prostatic hyperplasia and prostatic carcinoma. J Urol. 2003 Sep; 170: 787-90

101970 Rigatti, L., Naspro, R., Salonia, A., Centemero, A., Ghezzi, M., Guazzoni, G., Briganti, A., Rigatti, P., Montorsi, F. Urodynamics after TURP and HoLEP in urodynamically obstructed patients: are there any differences at 1 year of follow-up?. Urology. 2006 Jun; 67: 1193-8

108970 Rigatti, P., Brausi, M., Scarpa, R. M., Porru, D., Schumacher, H., Rizzi, C. A. A comparison of the efficacy and tolerability of tamsulosin and finasteride in patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Prostate Cancer Prostatic Dis. 2003; 6: 315-23

115980 Rioux-Leclercq, N. C., Epstein, J. I. Unusual morphologic patterns of basal cell hyperplasia of the prostate. Am J Surg Pathol. 2002 Feb; 26: 237-43

130610 Ripley, T. L., Havrda, D. E., Blevins, S., Culkin, D. Early evaluation of hematuria in a patient receiving anticoagulant therapy and detection of malignancy. Pharmacotherapy. 2004 Nov; 24: 1638-40

163780 Rittler, M., Mazzitelli, N., Grandi, C., Vauthay, L., Fuksman, R., Bernal, L. Renal enlargement in the fetus and newborn with congenital diaphragmatic hernia: a refuted hypothesis. J Pediatr Surg. 2000 Mar; 35: 442-5

119900 Rivas, D. A., Bagley, D., Gomella, L. G., Hirsch, I. H., Hubert, C., Lombardo, S., McGinnis, D. E., Mulholland, S. G., Shenot, P. J., Strup, S. E., Vasavada, S. P. Transurethral microwave thermotherapy of the prostate without intravenous sedation: results of a single United States center using both low- and high-energy protocols. TJUH TUMT Study Group. Tech Urol. 2000 Dec; 6: 282-7

163400 Rivolta, R., Cardinale, L., Lovaria, A., Di Palo, F. Q. Variability of renal echo-Doppler measurements in healthy adults. J Nephrol. 2000 Mar -Apr; 13: 110-5

164950 Rivolta, R., Elli, A., Tarantino, A., Montagnino, G., Cardinale, L., di Palo, F. Q. Dimensional and hemodynamic differences between native and transplanted kidneys, evaluated by color Doppler ultrasonography. J Nephrol. 1999 May-Jun; 12: 179-83

112000 Rizner, T. L., Lin, H. K., Penning, T. M. Role of human type 3 3alpha-hydroxysteroid dehydrogenase (AKR1C2) in androgen metabolism of prostate cancer cells. Chem Biol Interact. 2003 Feb 1; 143-144: 401-9

135170 Rizvi, S. A., Naqvi, S. A., Hussain, Z., Hashmi, A., Hussain, M., Zafar, M. N., Sultan, S., Mehdi, H. Pediatric urolithiasis: developing nation perspectives. J Urol. 2002 Oct; 168: 1522-5

103770 Rizzo, M., Marchetti, F., Travaglini, F., Trinchieri, A., Nickel, J. C. Clinical characterization of the prostatitis patient in Italy: a prospective urology outpatient study. World J Urol. 2005 Feb; 23: 61-6

163990 Roach, R. C., Maes, D., Sandoval, D., Robergs, R. A., Icenogle, M., Hinghofer-Szalkay, H., Lium, D., Loeppky, J. A. Exercise exacerbates acute mountain sickness at simulated high altitude. J Appl Physiol. 2000 Feb; 88: 581-5

164110 Robert, M., A'Ch, S., Lanfrey, P., Guiter, J., Navratil, H. Piezoelectric shockwave lithotripsy of urinary calculi: comparative study of stone depth in kidney and ureter treatments. J Endourol. 1999 Dec; 13: 699-703

165550 Robert, M., Maubon, A., Roux, J. O., Rouanet, J. P., Navratil, H. Direct percutaneous approach to the upper pole of the kidney: MRI anatomy with assessment of the visceral risk. J Endourol. 1999 Feb; 13: 17-20

164700 Roberts, N. B., Dutton, J., McClelland, P., Bone, J. M. Urinary catecholamine excretion in relation to renal function. Ann Clin Biochem. 1999 Sep; 36 (Pt 5): 587-91

108480 Roberts, R. O., Bergstralh, E. J., Cunningham, J. M., Hebbring, S. J., Thibodeau, S. N., Lieber, M. M., Jacobsen, S. J. Androgen receptor gene polymorphisms and increased risk of urologic measures of benign prostatic hyperplasia. Am J Epidemiol. 2004 Feb 1; 159: 269-76

101230 Roberts, R. O., Bergstralh, E. J., Farmer, S. A., Jacobson, D. J., Hebbring, S. J., Cunningham, J. M., Thibodeau, S. N., Lieber, M. M., Jacobsen, S. J. Polymorphisms in genes involved in sex hormone metabolism may increase risk of benign prostatic hyperplasia. Prostate. 2006 Mar 1; 66: 392-404

105780 Roberts, R. O., Bergstralh, E. J., Farmer, S. A., Jacobson, D. J., McGree, M. E., Hebbring, S. J., Cunningham, J. M., Anderson, S. A., Thibodeau, S. N., Lieber, M. M., Jacobsen, S. J. Polymorphisms in the 5alpha reductase type 2 gene and urologic measures of BPH. Prostate. 2005 Mar 1; 62: 380-7

161400 Roberts, R. O., Jacobsen, S. J. Re: 'Alcohol consumption, cigarette smoking, and risk of benign prostatic hyperplasia'. Am J Epidemiol. 1999 Aug 1; 150: 321-2

111240 Roberts, R. O., Jacobson, D. J., Girman, C. J., Rhodes, T., Klee, G. G., Lieber, M. M., Jacobsen, S. J. Insulin-like growth factor I, insulin-like growth factor binding protein 3, and urologic measures of benign prostatic hyperplasia. Am J Epidemiol. 2003 May 1; 157: 784-91

136470 Roberts, R. O., Jacobson, D. J., Girman, C. J., Rhodes, T., Lieber, M. M., Jacobsen, S. J. A population-based study of daily nonsteroidal anti-inflammatory drug use and prostate cancer. Mayo Clin Proc. 2002 Mar; 77: 219-25

113100 Roberts, R. O., Jacobson, D. J., Girman, C. J., Rhodes, T., Lieber, M. M., Jacobsen, S. J. Prevalence of prostatitis-like symptoms in a community based cohort of older men. J Urol. 2002 Dec; 168: 2467-71

106330 Roberts, R. O., Jacobson, D. J., Rhodes, T., Klee, G. G., Leiber, M. M., Jacobsen, S. J. Serum sex hormones and measures of benign prostatic hyperplasia. Prostate. 2004 Oct 1; 61: 124-31

102860 Roberts, R. O., Lieber, M. M., Jacobson, D. J., Girman, C. J., Jacobsen, S. J. Limitations of using outcomes in the placebo arm of a clinical trial of benign prostatic hyperplasia to quantify those in the community. Mayo Clin Proc. 2005 Jun; 80: 759-64

166000 Roberts, R.O., Jacobsen, S.J., Jacobson, D.J., Rhodes, T., Girman, C.J., Lieber, M.M. Longitudinal Changes In Peak Urinary Flow Rates In A Community Based Cohort COMMUNITY BASED COHORT. J Urol. 2000 Jan; 163: 107-113

101400 Roberts, W. W. Focused ultrasound ablation of renal and prostate cancer: current technology and future directions. Urol Oncol. 2005 Sep-Oct; 23: 367-71

164430 Robertson, A. S. Behaviour of the human bladder during natural filling: the Newcastle experience of ambulatory monitoring and conventional artificial filling cystometry. Scand J Urol Nephrol Suppl. 1999; 201: 19-24

164690 Robinson, B. V., Boyle, G. J., Miller, S. A., Law, Y. M., Myers, J. L., Griffith, B. P., Webber, S. A. Optimal dosing of intravenous tacrolimus following pediatric heart transplantation. J Heart Lung Transplant. 1999 Aug; 18: 786-91

165820 Robinson, D. Pathophysiology of female lower urinary tract dysfunction. Obstet Gynecol Clin North Am. 1998 Dec; 25: 747-56, vi

129610 Robyr, R., Benachi, A., Daikha-Dahmane, F., Martinovich, J., Dumez, Y., Ville, Y. Correlation between ultrasound and anatomical findings in fetuses with lower urinary tract obstruction in the first half of pregnancy. Ultrasound Obstet Gynecol. 2005 May; 25: 478-82

119040 Rocchi, P., Boudouresque, F., Zamora, A. J., Muracciole, X., Lechevallier, E., Martin, P. M., Ouafik, L. Expression of adrenomedullin and peptide amidation activity in human prostate cancer and in human prostate cancer cell lines. Cancer Res. 2001 Feb 1; 61: 1196-206

107950 Roddam, A. W., Price, C. P., Allen, N. E., Ward, A. M. Assessing the clinical impact of prostate-specific antigen assay variability and nonequimolarity: a simulation study based on the population of the United Kingdom. Clin Chem. 2004 Jun; 50: 1012-6

135130 Rodic, B., Schlapfer, A., Curt, A., Knapp, P., Dietz, V., Schurch, B. Magnetic stimulation of sacral roots for assessing the efferent neuronal pathways of lower urinary tract. Muscle Nerve. 2002 Oct; 26: 486-91

130010 Rodrigues, P., Meller, A., Campagnari, J. C., Alcantara, D., D'Imperio, M. International Prostate Symptom Score--IPSS-AUA as discriminat scale in 400 male patients with lower urinary tract symptoms (LUTS). Int Braz J Urol. 2004 Mar-Apr; 30: 135-41

100090 Rodriguez Ortner, E., Hayes, R. B., Weissfeld, J., Gelmann, E. P. Effect of homeodomain protein NKX3.1 R52C polymorphism on prostate gland size. Urology. 2006 Feb; 67: 311-5

127170 Rodriguez, C., Munoz, P., Rodriguez-Creixems, M., Yanez, J. F., Palomo, J., Bouza, E. Bloodstream infections among heart transplant recipients. Transplantation. 2006 Feb 15; 81: 384-91

111490 Rodriguez, J. C., Diaz, M., Gonzalez, L. O., Sanchez, J., Sanchez, M. T., Merino, A. M., Vizoso, F. Apolipoprotein D expression in benign and malignant prostate tissues. Int J Surg Investig. 2000; 2: 319-26

120300 Roehrborn, C. G. Acute relief or future prevention: is urology ready for preventive health care?. Urology. 2000 Nov 1; 56: 12-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

101330 Roehrborn, C. G. Alfuzosin 10 mg once daily prevents overall clinical progression of benign prostatic hyperplasia but not acute urinary retention: results of a 2-year placebo-controlled study. BJU Int. 2006 Apr; 97: 734-41

116400 Roehrborn, C. G. Alfuzosin: overview of pharmacokinetics, safety, and efficacy of a clinically uroselective alpha-blocker. Urology. 2001 Dec; 58: 55-63; discussion 63-4

136750 Roehrborn, C. G. Are all alpha-blockers created equal? An update. Urology. 2002 Feb; 59: 6-Mar

157260 Roehrborn, C. G. BPH progression: concept and key learning from MTOPS, ALTESS, COMBAT, and ALF-ONE. BJU Int. 2008; 101 Suppl 3: 17-21

101530 Roehrborn, C. G. Definition of at-risk patients: baseline variables. BJU Int. 2006 Apr; 97 Suppl 2: 7-11; discussion 21-2

116570 Roehrborn, C. G. Efficacy and safety of once-daily alfuzosin in the treatment of lower urinary tract symptoms and clinical benign prostatic hyperplasia: a randomized, placebo-controlled trial. Urology. 2001 Dec; 58: 953-9

119600 Roehrborn, C. G. Is there a place for combination medical therapy?. Curr Opin Urol. 2001 Jan; 11: 17-25

114830 Roehrborn, C. G. Reporting of acute urinary retention in BPH treatment trials: importance of patient follow-up after discontinuation and case definitions. Urology. 2002 Jun; 59: 811-5

108080 Roehrborn, C. G. The potential of serum prostate-specific antigen as a predictor of clinical response in patients with lower urinary tract symptoms and benign prostatic hyperplasia. BJU Int. 2004 Mar; 93 Suppl 1: 21-6

124090 Roehrborn, C. G. Three months' treatment with the alpha1-blocker alfuzosin does not affect total or transition zone volume of the prostate. Prostate Cancer Prostatic Dis. 2006; 9: 121-5

151420 Roehrborn, C. G. and Ray, P. Efficacy and tolerability of the dual 5alpha-reductase inhibitor, dutasteride, in the treatment of benign prostatic hyperplasia in African-American men. Prostate Cancer Prostatic Dis. 2006; 9: 432-8

116710 Roehrborn, C. G., Bartsch, G., Kirby, R., Andriole, G., Boyle, P., de la Rosette, J., Perrin, P., Ramsey, E., Nordling, J., De Campos Freire, G., Arap, S. Guidelines for the diagnosis and treatment of benign prostatic hyperplasia: a comparative, international overview. Urology. 2001 Nov; 58: 642-50

113500 Roehrborn, C. G., Boyle, P., Nickel, J. C., Hoefner, K., Andriole, G. Efficacy and safety of a dual inhibitor of 5-alpha-reductase types 1 and 2 (dutasteride) in men with benign prostatic hyperplasia. Urology. 2002 Sep; 60: 434-41

139850 Roehrborn, C. G., Bruskewitz, R., Nickel, G. C., Glickman, S., Cox, C., Anderson, R., Kandzari, S., Herlihy, R., Kornitzer, G., Brown, B. T., Holtgrewe, H. L., Taylor, A., Wang, D., Waldstreicher, J. Urinary retention in patients with BPH treated with finasteride or placebo over 4 years. Characterization of patients and ultimate outcomes.The PLESS Study Group. Eur Urol. 2000 May; 37: 528-36

108350 Roehrborn, C. G., Bruskewitz, R., Nickel, J. C., McConnell, J. D., Saltzman, B., Gittelman, M. C., Malek, G. H., Gottesman, J. E., Suryawanshi, S., Drisko, J., Meehan, A., Waldstreicher, J. Sustained decrease in incidence of acute urinary retention and surgery with finasteride for 6 years in men with benign prostatic hyperplasia. J Urol. 2004 Mar; 171: 1194-8

161760 Roehrborn, C. G., Burkhard, F. C., Bruskewitz, R. C., Issa, M. M., Perez-Marrero, R., Naslund, M. J., Shumaker, B. P. The effects of transurethral needle ablation and resection of the prostate on pressure flow urodynamic parameters: analysis of the United States randomized study. J Urol. 1999 Jul; 162: 92-7

121450 Roehrborn, C. G., Dolte, K. S., Ross, K. S., Girman, C. J. Incidence and risk reduction of long-term outcomes: a comparison of benign prostatic hyperplasia with several other disease areas. Urology. 2000 Jul; 56: 18-Sep

109320 Roehrborn, C. G., Lee, M., Meehan, A., Waldstreicher, J. Effects of finasteride on serum testosterone and body mass index in men with benign prostatic hyperplasia. Urology. 2003 Nov; 62: 894-9

101710 Roehrborn, C. G., Lukkarinen, O., Mark, S., Siami, P., Ramsdell, J., Zinner, N. Long-term sustained improvement in symptoms of benign prostatic hyperplasia with the dual 5alpha-reductase inhibitor dutasteride: results of 4-year studies. BJU Int. 2005 Sep; 96: 572-7

117340 Roehrborn, C. G., Malice, M., Cook, T. J., Girman, C. J. Clinical predictors of spontaneous acute urinary retention in men with LUTS and clinical BPH: a comprehensive analysis of the pooled placebo groups of several large clinical trials. Urology. 2001 Aug; 58: 210-6

107660 Roehrborn, C. G., Marks, L. S., Fenter, T., Freedman, S., Tuttle, J., Gittleman, M., Morrill, B., Wolford, E. T. Efficacy and safety of dutasteride in the four-year treatment of men with benign prostatic hyperplasia. Urology. 2004 Apr; 63: 709-15

128140 Roehrborn, C. G., Marks, L., Harkaway, R. Enlarged prostate: a landmark national survey of its prevalence and impact on US men and their partners. Prostate Cancer Prostatic Dis. 2006; 9: 30-4

114280 Roehrborn, C. G., McConnell, J. D., Saltzman, B., Bergner, D., Gray, T., Narayan, P., Cook, T. J., Johnson-Levonas, A. O., Quezada, W. A., Waldstreicher, J. Storage (irritative) and voiding (obstructive) symptoms as predictors of benign prostatic hyperplasia progression and related outcomes. Eur Urol. 2002 Jul; 42: 1-6

123010 Roehrborn, C. G., McConnell, J., Bonilla, J., Rosenblatt, S., Hudson, P. B., Malek, G. H., Schellhammer, P. F., Bruskewitz, R., Matsumoto, A. M., Harrison, L. H., Fuselier, H. A., Walsh, P., Roy, J., Andriole, G., Resnick, M., Waldstreicher Serum prostate specific antigen is a strong predictor of future prostate growth in men with benign prostatic hyperplasia. PROSCAR long-term efficacy and safety study. J Urol. 2000 Jan; 163: 13-20

155620 Roehrborn, C. G., Nuckolls, J. G., Wei, J. T. and Steers, W. The benign prostatic hyperplasia registry and patient survey: study design, methods and patient baseline characteristics. BJU Int. 2007; 100: 813-9

102500 Roehrborn, C. G., Prajsner, A., Kirby, R., Andersen, M., Quinn, S., Mallen, S. A double-blind placebo-controlled study evaluating the onset of action of doxazosin gastrointestinal therapeutic system in the treatment of benign prostatic hyperplasia. Eur Urol. 2005 Sep; 48: 445-52; discussion 452

108360 Roehrborn, C. G., Schwinn, D. A. Alpha1-adrenergic receptors and their inhibitors in lower urinary tract symptoms and benign prostatic hyperplasia. J Urol. 2004 Mar; 171: 1029-35

156660 Roehrborn, C. G., Siami, P., Barkin, J., Damiao, R., Major-Walker, K., Morrill, B. and Montorsi, F. The effects of dutasteride, tamsulosin and combination therapy on lower urinary tract symptoms in men with benign prostatic hyperplasia and prostatic enlargement: 2-year results from the CombAT study. J Urol. 2008; 179: 616-21; discussion 621

110460 Roehrborn, C. G., Van Kerrebroeck, P., Nordling, J. Safety and efficacy of alfuzosin 10 mg once-daily in the treatment of lower urinary tract symptoms and clinical benign prostatic hyperplasia: a pooled analysis of three double-blind, placebo-controlled studies. BJU Int. 2003 Aug; 92: 257-61

120730 Rogatsch, H., Moser, P., Volgger, H., Horninger, W., Bartsch, G., Mikuz, G., Mairinger, T. Diagnostic effect of an improved preembedding method of prostate needle biopsy specimens. Hum Pathol. 2000 Sep; 31: 1102-7

129130 Rohrmann, S., Crespo, C. J., Weber, J. R., Smit, E., Giovannucci, E., Platz, E. A. Association of cigarette smoking, alcohol consumption and physical activity with lower urinary tract symptoms in older American men: findings from the third National Health And Nutrition Examination Survey. BJU Int. 2005 Jul; 96: 77-82

105740 Rohrmann, S., De Marzo, A. M., Smit, E., Giovannucci, E., Platz, E. A. Serum C-reactive protein concentration and lower urinary tract symptoms in older men in the Third National Health and Nutrition Examination Survey (NHANES III). Prostate. 2005 Jan 1; 62: 27-33

126410 Rohrmann, S., Fallin, M. D., Page, W. F., Reed, T., Partin, A. W., Walsh, P. C., Platz, E. A. Concordance rates and modifiable risk factors for lower urinary tract symptoms in twins. Epidemiology. 2006 Jul; 17: 419-27

153080 Rohrmann, S., Giovannucci, E., Willett, W. C. and Platz, E. A. Fruit and vegetable consumption, intake of micronutrients, and benign prostatic hyperplasia in US men. Am J Clin Nutr. 2007; 85: 523-9

106650 Rohrmann, S., Platz, E. A., Smit, E., Giovannucci, E. Re: Body size and serum levels of insulin and leptin in relation to the risk of benign prostatic hyperplasia. J Urol. 2004 Aug; 172: 779

130080 Rohrmann, S., Smit, E., Giovannucci, E., Platz, E. A. Association between markers of the metabolic syndrome and lower urinary tract symptoms in the Third National Health and Nutrition Examination Survey (NHANES III). Int J Obes (Lond). 2005 Mar; 29: 310-6

131020 Rohrmann, S., Smit, E., Giovannucci, E., Platz, E. A. Association between serum concentrations of micronutrients and lower urinary tract symptoms in older men in the Third National Health and Nutrition Examination Survey. Urology. 2004 Sep; 64: 504-9

132330 Rohrmann, S., Smit, E., Giovannucci, E., Platz, E. A. Associations of obesity with lower urinary tract symptoms and noncancer prostate surgery in the Third National Health and Nutrition Examination Survey. Am J Epidemiol. 2004 Feb 15; 159: 390-7

117090 Roigas, J., Schulze, G., Raytarowski, S., Jung, K., Schnorr, D., Loening, S. A. Tumor M2 pyruvate kinase in plasma of patients with urological tumors. Tumour Biol. 2001 Sep-Oct; 22: 282-5

117200 Rokman, A., Ikonen, T., Mononen, N., Autio, V., Matikainen, M. P., Koivisto, P. A., Tammela, T. L., Kallioniemi, O. P., Schleutker, J. ELAC2/HPC2 involvement in hereditary and sporadic prostate cancer. Cancer Res. 2001 Aug 15; 61: 6038-41

115400 Rokman, A., Ikonen, T., Seppala, E. H., Nupponen, N., Autio, V., Mononen, N., Bailey-Wilson, J., Trent, J., Carpten, J., Matikainen, M. P., Koivisto, P. A., Tammela, T. L., Kallioniemi, O. P., Schleutker, J. Germline alterations of the RNASEL gene, a candidate HPC1 gene at 1q25, in patients and families with prostate cancer. Am J Hum Genet. 2002 May; 70: 1299-304

121660 Romanenko, A., Morimura, K., Wanibuchi, H., Salim, E. I., Kinoshita, A., Kaneko, M., Vozianov, A., Fukushima, S. Increased oxidative stress with gene alteration in urinary bladder urothelium after the Chernobyl accident. Int J Cancer. 2000 Jun 15; 86: 790-8

113880 Romanenko, A., Morimura, K., Wei, M., Zaparin, W., Vozianov, A., Fukushima, S. DNA damage repair in bladder urothelium after the Chernobyl accident in Ukraine. J Urol. 2002 Sep; 168: 973-7

117640 Romano, S. V., Bechara, A., Casabe, A., Castillo, E. C., Cobreros, C., Fredotovich, N. Acute urinary retention due to benign prostatic hyperplasia in a 23-year-old patient. J Urol. 2001 Jul; 166: 217-8

101110 Romano, S. V., Metrebian, S. E., Vaz, F., Muller, V., D'Ancona, C. A., Costa, D. E., Souza E.A., Nakamura, F. An adjustable male sling for treating urinary incontinence after prostatectomy: a phase III multicentre trial. BJU Int. 2006 Mar; 97: 533-9

155280 Romics, I. The role of alpha-adrenoreceptors in the treatment of urological diseases. Neurochem Int. 2007; 51: 328-31

111710 Romih, R., Korosec, P., Jezernik, K., Sedmak, B., Trsinar, B., Deng, F. M., Liang, F. X., Sun, T. T. Inverse expression of uroplakins and inducible nitric oxide synthase in the urothelium of patients with bladder outlet obstruction. BJU Int. 2003 Apr; 91: 507-12

114920 Romppanen, J., Haapalainen, T., Punnonen, K., Penttila, I. Serum sialic acid and prostate-specific antigen in differential diagnosis of benign prostate hyperplasia and prostate cancer. Anticancer Res. 2002 Jan-Feb; 22: 415-20

108840 Ronquist, G., Rodriguez, L. A., Ruigomez, A., Johansson, S., Wallander, M. A., Frithz, G., Svardsudd, K. Association between captopril, other antihypertensive drugs and risk of prostate cancer. Prostate. 2004 Jan 1; 58: 50-6

161540 Ropiquet, F., Giri, D., Lamb, D. J., Ittmann, M. FGF7 and FGF2 are increased in benign prostatic hyperplasia and are associated with increased proliferation. J Urol. 1999 Aug; 162: 595-9

102460 Ropke, A., Buhtz, P., Bohm, M., Seger, J., Wieland, I., Allhoff, E. P., Wieacker, P. F. Promoter CpG hypermethylation and downregulation of DICE1 expression in prostate cancer. Oncogene. 2005 Oct 6; 24: 6667-75

119050 Rorvik, J., Haukaas, S. Magnetic resonance imaging of the prostate. Curr Opin Urol. 2001 Mar; 11: 181-8

138260 Rosalki, S. B., Rutherford, F. J. Prostate-specific antigen and prostate cancer. Int J Clin Pract. 2000 Nov; 54: 611-3

165330 Rosamilia, A., Cann, L., Dwyer, P., Scurry, J., Rogers, P. Bladder microvasculature in women with interstitial cystitis. J Urol. 1999 Jun; 161: 1865-70

153230 Rosario, D. J., Phillips, J. T. and Chapple, C. R. Durability and cost-effectiveness of transurethral needle ablation of the prostate as an alternative to transurethral resection of the prostate when alpha-adrenergic antagonist therapy fails. J Urol. 2007; 177: 1047-51; discussion 1051

101630 Rose, A., Xu, Y., Chen, Z., Fan, Z., Stamey, T. A., McNeal, J. E., Caldwell, M., Peehl, D. M. Comparative gene and protein expression in primary cultures of epithelial cells from benign prostatic hyperplasia and prostate cancer. Cancer Lett. 2005 Sep 28; 227: 213-22

101470 Rosen, R. C. Assessment of sexual dysfunction in patients with benign prostatic hyperplasia. BJU Int. 2006 Apr; 97 Suppl 2: 29-33; discussion 44-5

132030 Rosen, R. C. Lower urinary tract symptoms and sexual dysfunction: additional evidence of an association. BJU Int. 2004 Apr; 93: 689-90

124000 Rosen, R. C. Update on the relationship between sexual dysfunction and lower urinary tract symptoms/benign prostatic hyperplasia. Curr Opin Urol. 2006 Jan; 16: 11-9

154220 Rosen, R. C., Catania, J. A., Althof, S. E., Pollack, L. M., O'Leary, M., Seftel, A. D. and Coon, D. W. Development and validation of four-item version of Male Sexual Health Questionnaire to assess ejaculatory dysfunction. Urology. 2007; 69: 805-9

130720 Rosen, R. C., Catania, J., Pollack, L., Althof, S., O'Leary, M., Seftel, A. D. Male Sexual Health Questionnaire (MSHQ): scale development and psychometric validation. Urology. 2004 Oct; 64: 777-82

102950 Rosen, R. C., Giuliano, F., Carson, C. C. Sexual dysfunction and lower urinary tract symptoms (LUTS) associated with benign prostatic hyperplasia (BPH). Eur Urol. 2005 Jun; 47: 824-37

127850 Rosen, R. C., Wing, R., Schneider, S., Gendrano, N., 3rd Epidemiology of erectile dysfunction: the role of medical comorbidities and lifestyle factors. Urol Clin North Am. 2005 Nov; 32: 403-17, v

109070 Rosen, R., Altwein, J., Boyle, P., Kirby, R. S., Lukacs, B., Meuleman, E., O'Leary, M. P., Puppo, P., Robertson, C., Giuliano, F. Lower urinary tract symptoms and male sexual dysfunction: the multinational survey of the aging male (MSAM-7). Eur Urol. 2003 Dec; 44: 637-49

155500 Rosen, R., Seftel, A. and Roehrborn, C. G. Effects of alfuzosin 10 mg once daily on sexual function in men treated for symptomatic benign prostatic hyperplasia. Int J Impot Res. 2007; 19: 480-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

115590 Rosenberg, D. J., Neugut, A. I., Ahsan, H., Shea, S. Diabetes mellitus and the risk of prostate cancer. Cancer Invest. 2002; 20: 157-65

155050 Rosenberg, M. T., Staskin, D. R., Kaplan, S. A., MacDiarmid, S. A., Newman, D. K. and Ohl, D. A. A practical guide to the evaluation and treatment of male lower urinary tract symptoms in the primary care setting. Int J Clin Pract. 2007; 61: 1535-46

102340 Ross, A. B., Diederich, C. J., Nau, W. H., Rieke, V., Butts, R. K., Sommer, G., Gill, H., Bouley, D. M. Curvilinear transurethral ultrasound applicator for selective prostate thermal therapy. Med Phys. 2005 Jun; 32: 1555-65

115130 Ross, S., Spencer, S. D., Holcomb, I., Tan, C., Hongo, J., Devaux, B., Rangell, L., Keller, G. A., Schow, P., Steeves, R. M., Lutz, R. J., Frantz, G., Hillan, K., Peale, F., Tobin, P., Eberhard, D., Rubin, M. A., Lasky, L. A., Koeppen, H Prostate stem cell antigen as therapy target: tissue expression and in vivo efficacy of an immunoconjugate. Cancer Res. 2002 May 1; 62: 2546-53

138610 Rossi, C., Kortmann, B. B., Sonke, G. S., Floratos, D. L., Kiemeney, L. A., Wijkstra, H., de la, ROSETTE JJ alpha-Blockade improves symptoms suggestive of bladder outlet obstruction but fails to relieve it. J Urol. 2001 Jan; 165: 38-41

165650 Rostaing, L., Izopet, J., Arnaud, C., Cisterne, J. M., Alric, L., Rumeau, J. L., Duffaut, M., Durand, D. Long-term impact of superinfection by hepatitis G virus in hepatitis C virus-positive renal transplant patients. Transplantation. 1999 Feb 27; 67: 556-60

150830 Roussos, L., Christensson, A. and Thompson, O. A study on the outcome of percutaneous transluminal renal angioplasty in patients with renal failure. Nephron Clin Pract. 2006; 104: c132-42

111370 Rouviere, O., Raudrant, A., Ecochard, R., Colin-Pangaud, C., Pasquiou, C., Bouvier, R., Marechal, J. M., Lyonnet, D. Characterization of time-enhancement curves of benign and malignant prostate tissue at dynamic MR imaging. Eur Radiol. 2003 May; 13: 931-42

106490 Rovner, D. R., Wills, C. E., Bonham, V., Williams, G., Lillie, J., Kelly-Blake, K., Williams, M. V., Holmes-Rovner, M. Decision aids for benign prostatic hyperplasia: applicability across race and education. Med Decis Making. 2004 Jul-Aug; 24: 359-66

116190 Royuela, M., Arenas, M. I., Bethencourt, F. R., Sanchez-Chapado, M., Fraile, B., Paniagua, R. Immunoexpressions of p21, Rb, mcl-1 and bad gene products in normal, hyperplastic and carcinomatous human prostates. Eur Cytokine Netw. 2001 Oct-Dec; 12: 654-63

115150 Royuela, M., Arenas, M. I., Bethencourt, F. R., Sanchez-Chapado, M., Fraile, B., Paniagua, R. Regulation of proliferation/apoptosis equilibrium by mitogen-activated protein kinases in normal, hyperplastic, and carcinomatous human prostate. Hum Pathol. 2002 Mar; 33: 299-306

120700 Royuela, M., De Miguel, M. P., Bethencourt, F. R., Fraile, B., Arenas, M. I., Paniagua, R. IL-2, its receptors, and bcl-2 and bax genes in normal, hyperplastic and carcinomatous human prostates: immunohistochemical comparative analysis. Growth Factors. 2000; 18: 135-46

118980 Royuela, M., de Miguel, M. P., Bethencourt, F. R., Sanchez-Chapado, M., Fraile, B., Arenas, M. I., Paniagua, R. Estrogen receptors alpha and beta in the normal, hyperplastic and carcinomatous human prostate. J Endocrinol. 2001 Mar; 168: 447-54

163060 Royuela, M., De Miguel, M. P., Bethencourt, F. R., Sanchez-Chapado, M., Fraile, B., Paniagua, R. Transforming growth factor beta 1 and its receptor types I and II. Comparison in human normal prostate, benign prostatic hyperplasia, and prostatic carcinoma. Growth Factors. 1998; 16: 101-10

122390 Royuela, M., de Miguel, M. P., Ruiz, A., Fraile, B., Arenas, M. I., Romo, E., Paniagua, R. Interferon-gamma and its functional receptors overexpression in benign prostatic hyperplasia and prostatic carcinoma: parallelism with c-myc and p53 expression. Eur Cytokine Netw. 2000 Mar; 11: 119-27

108700 Royuela, M., Ricote, M., Parsons, M. S., Garcia-Tunon, I., Paniagua, R., de Miguel, M. P. Immunohistochemical analysis of the IL-6 family of cytokines and their receptors in benign, hyperplasic, and malignant human prostate. J Pathol. 2004 Jan; 202: 41-9

139270 Rub, R., Madeb, R., Kluger, Y., Chen, T., Avidor, Y. Posterior urethral disruption secondary to a penetrating gluteal injury. Urology. 2000 Sep 1; 56: 509

165320 Rudberg, S., Osterby, R., Bangstad, H. J., Dahlquist, G., Persson, B. Effect of angiotensin converting enzyme inhibitor or beta blocker on glomerular structural changes in young microalbuminuric patients with Type I (insulin-dependent) diabetes mellitus. Diabetologia. 1999 May; 42: 589-95

131250 Rudloff, U., Amukele, S. A., Moldwin, R., Qiao, X., Morgenstern, N. Small cell carcinoma arising from the proximal urethra. Int J Urol. 2004 Aug; 11: 674-7

150270 Ruffolo, C., Angriman, I., Scarpa, M., Polese, L., Pagano, D., Barollo, M., Bertin, M. and D'Amico, D. F. Urologic complications in Crohn's disease: suspicion criteria. Hepatogastroenterology. 2006; 53: 357-60

161640 Ruffolo, R. R., Jr., Hieble, J. P. Adrenoceptor pharmacology: urogenital applications. Eur Urol. 1999; 36 Suppl 1: 17-22

165380 Ruggenenti, P., Perna, A., Benini, R., Bertani, T., Zoccali, C., Maggiore, Q., Salvadori, M., Remuzzi, G. In chronic nephropathies prolonged ACE inhibition can induce remission: dynamics of time-dependent changes in GFR. Investigators of the GISEN Group. Gruppo Italiano Studi Epidemiologici in Nefrologia. J Am Soc Nephrol. 1999 May; 10: 997-1006

128270 Ruggieri, M. R., Sr, Braverman, A. S., Pontari, M. A. Combined use of alpha-adrenergic and muscarinic antagonists for the treatment of voiding dysfunction. J Urol. 2005 Nov; 174: 1743-8

116360 Ruiz, M., Troncoso, P., Bruns, C., Bar-Eli, M. Activator protein 2alpha transcription factor expression is associated with luminal differentiation and is lost in prostate cancer. Clin Cancer Res. 2001 Dec; 7: 4086-95

101380 Rule, A. D., Jacobson, D. J., McGree, M. E., Girman, C. J., Lieber, M. M., Jacobsen, S. J. Longitudinal changes in post-void residual and voided volume among community dwelling men. J Urol. 2005 Oct; 174: 1317-21; discussion 1321-2; author reply 1322

103160 Rule, A. D., Jacobson, D. J., Roberts, R. O., Girman, C. J., McGree, M. E., Lieber, M. M., Jacobsen, S. J. The association between benign prostatic hyperplasia and chronic kidney disease in community-dwelling men. Kidney Int. 2005 Jun; 67: 2376-82

104070 Rule, A. D., Lieber, M. M., Jacobsen, S. J. Is benign prostatic hyperplasia a risk factor for chronic renal failure?. J Urol. 2005 Mar; 173: 691-6

113560 Rumpold, H., Heinrich, E., Untergasser, G., Hermann, M., Pfister, G., Plas, E., Berger, P. Neuroendocrine differentiation of human prostatic primary epithelial cells in vitro. Prostate. 2002 Oct 1; 53: 101-8

113220 Rumpold, H., Mascher, K., Untergasser, G., Plas, E., Hermann, M., Berger, P. Trans-differentiation of prostatic stromal cells leads to decreased glycoprotein hormone alpha production. J Clin Endocrinol Metab. 2002 Nov; 87: 5297-303

113710 Rumpold, H., Untergasser, G., Madersbacher, S., Berger, P. The development of benign prostatic hyperplasia by trans-differentiation of prostatic stromal cells. Exp Gerontol. 2002 Aug-Sep; 37: 1001-4

127910 Rupar, G., Beham-Schmid, C., Galle, G., Zigeuner, R., Langner, C. Interdigitating dendritic cell sarcoma of urinary bladder mimicking large intravesical calculus. Urology. 2005 Nov; 66: 1109

135830 Russell, D., VorderBruegge, M., Burns, S. M. Effect of an outcomes-managed approach to care of neuroscience patients by acute care nurse practitioners. Am J Crit Care. 2002 Jul; 11: 353-62

128080 Russell, S., McVary, K. T. Lower urinary tract symptoms and erectile dysfunction: epidemiology and treatment in the aging man. Curr Urol Rep. 2005 Nov; 6: 445-53

139490 Russo, P. Urologic emergencies in the cancer patient. Semin Oncol. 2000 Jun; 27: 284-98

117060 Russo-Magno, P., O'Brien, A., Panciera, T., Rounds, S. Compliance with CPAP therapy in older men with obstructive sleep apnea. J Am Geriatr Soc. 2001 Sep; 49: 1205-11

151110 Ruszat, R., Wyler, S., Forster, T., Reich, O., Stief, C. G., Gasser, T. C., Sulser, T. and Bachmann, A. Safety and effectiveness of photoselective vaporization of the prostate (PVP) in patients on ongoing oral anticoagulation. Eur Urol. 2007; 51: 1031-8; discussion 1038-41

164570 Rutland, M. D., Que, L. A comparison of the renal handling of 99Tcm-DTPA and 99Tcm-MAG3 in hypertensive patients using an uptake technique. Nucl Med Commun. 1999 Sep; 20: 823-8

104600 Ruzic, B., Tomaskovic, I., Trnski, D., Kraus, O., Bekavac-Beslin, M., Vrkic, N. Systemic stress responses in patients undergoing surgery for benign prostatic hyperplasia. BJU Int. 2005 Jan; 95: 77-80

101020 Saad, F., Nickel, J. C., Valiquette, L., Casey, R., Kuzmarov, I., Elhilali, M. Early symptom improvement of benign prostatic hyperplasia (BPH) treated with once daily alfuzosin. Can J Urol. 2005 Aug; 12: 2745-54

156410 Sacca, P., Meiss, R., Casas, G., Mazza, O., Calvo, J. C., Navone, N. and Vazquez, E. Nuclear translocation of haeme oxygenase-1 is associated to prostate cancer. Br J Cancer. 2007; 97: 1683-9

128130 Sadeghi, M., Daniel, V., Naujokat, C., Weimer, R., Opelz, G. Strikingly higher interleukin (IL)-1alpha, IL-1beta and soluble interleukin-1 receptor antagonist (sIL-1RA) but similar IL-2, sIL-2R, IL-3, IL-4, IL-6, sIL-6R, IL-10, tumour necrosis factor (TNF)-alpha, transforming growth factor (TGF)-beta and interferon. Clin Exp Immunol. 2005 Nov; 142: 312-7

156700 Saemi, A. M. and Plante, M. K. Injectables in the prostate. Curr Opin Urol. 2008; 18: 28-33

123590 Safarinejad, M. R. Urtica dioica for treatment of benign prostatic hyperplasia: a prospective, randomized, double-blind, placebo-controlled, crossover study. J Herb Pharmacother. 2005; 5: 1-11

111870 Saglam, K., Aydur, E., Yilmaz, M., Goktas, S. Leptin influences cellular differentiation and progression in prostate cancer. J Urol. 2003 Apr; 169: 1308-11

156380 Saha, B., Arase, A., Imam, S. S., Tsao-Wei, D., Naritoku, W. Y., Groshen, S., Jones, L. W. and Imam, S. A. Overexpression of E-cadherin and beta-catenin proteins in metastatic prostate cancer cells in bone. Prostate. 2008; 68: 78-84

122230 Sahiner, T., Atahan, O., Aybek, Z. Prostate electromyography: a new concept. Electromyogr Clin Neurophysiol. 2000 Mar; 40: 103-7

113350 Sahlen, G. E., Egevad, L., Ahlander, A., Norlen, B. J., Ronquist, G., Nilsson, B. O. Ultrastructure of the secretion of prostasomes from benign and malignant epithelial cells in the prostate. Prostate. 2002 Nov 1; 53: 192-9

155940 Saigal, C. S. Quality indicators for benign prostatic hyperplasia in vulnerable elders. J Am Geriatr Soc. 2007; 55 Suppl 2: S253-7

103850 Saigal, C. S., Joyce, G. Economic costs of benign prostatic hyperplasia in the private sector. J Urol. 2005 Apr; 173: 1309-13

153800 Saigal, C. S., Movassaghi, M., Pace, J. and Joyce, G. Economic evaluation of treatment strategies for benign prostatic hyperplasia--is medical therapy more costly in the long run?. J Urol. 2007; 177: 1463-7; discussion 1467

115480 Saika, T., Tsushima, T., Nasu, Y., Kusaka, N., Miyaji, Y., Takamoto, H., Takeda, K., Uno, S., Kumon, H. Prostate specific antigen complexed to alpha-1-antichymotrypsin in patients with intermediate prostate specific antigen levels. Cancer. 2002 Mar 15; 94: 1685-91

134870 Sairam, K., Kulinskaya, E., McNicholas, T. A., Boustead, G. B., Hanbury, D. C. Sildenafil influences lower urinary tract symptoms. BJU Int. 2002 Dec; 90: 836-9

101140 Saito, M., Kawatani, M., Kinoshita, Y., Satoh, K., Miyagawa, I. Effectiveness of an anti-inflammatory drug, loxoprofen, for patients with nocturia. Int J Urol. 2005 Aug; 12: 779-82

163620 Saito, W., Amanuma, M., Tanaka, J., Heshiki, A. Histopathological analysis of a bladder cancer stalk observed on MRI. Magn Reson Imaging. 2000 May; 18: 411-5

131000 Sak, S. C., Hussain, Z., Johnston, C., Eardley, I. What is the relationship between male sexual function and lower urinary tract symptoms (LUTS)?. Eur Urol. 2004 Oct; 46: 482-7

107100 Sakai, I., Harada, K., Hara, I., Eto, H., Miyake, H. Limited usefulness of the free-to-total prostate-specific antigen ratio for the diagnosis and staging of prostate cancer in Japanese men. Int J Clin Oncol. 2004 Feb; 9: 64-7

104090 Sakakibara, R., Hamano, S., Uchiyama, T., Liu, Z., Yamanishi, T., Hattori, T. Do BPH patients have neurogenic detrusor dysfunction? A uro-neurological assessment. Urol Int. 2005; 74: 44-50

140090 Sakakibara, R., Hattori, T., Uchiyama, T., Suenaga, T., Takahashi, H., Yamanishi, T., Egoshi, K., Sekita, N. Are alpha-blockers involved in lower urinary tract dysfunction in multiple system atrophy? A comparison of prazosin and moxisylyte. J Auton Nerv Syst. 2000 Mar 15; 79: 191-5

129570 Sakakibara, R., Ito, T., Uchiyama, T., Asahina, M., Liu, Z., Yamamoto, T., Yamanaka, Y., Hattori, T. Lower urinary tract function in dementia of Lewy body type. J Neurol Neurosurg Psychiatry. 2005 May; 76: 729-32

132380 Sakakibara, R., Uchiyama, T., Arai, K., Yamanishi, T., Hattori, T. Lower urinary tract dysfunction in Machado-Joseph disease: a study of 11 clinical-urodynamic observations. J Neurol Sci. 2004 Mar 15; 218: 67-72

132240 Sakakibara, R., Uchiyama, T., Yamanishi, T., Hattori, T. Urinary function in patients with corticobasal degeneration; comparison with normal subjects. Neurourol Urodyn. 2004; 23: 154-8

130320 Sakakibara, R., Uchiyama, T., Yoshiyama, M., Yamanishi, T., Hattori, T. Preliminary communication: urodynamic assessment of donepezil hydrochloride in patients with Alzheimer's disease. Neurourol Urodyn. 2005; 24: 273-5

105710 Sakamoto, S., Yokoyama, M., Aoki, M., Suzuki, K., Kakehi, Y., Saito, Y. Induction and function of CYR61 (CCN1) in prostatic stromal and epithelial cells: CYR61 is required for prostatic cell proliferation. Prostate. 2004 Dec 1; 61: 305-17

108690 Sakamoto, S., Yokoyama, M., Prakash, K., Tsuruha, J., Masamoto, S., Getzenberg, R. H., Kakehi, Y. Development of quantitative detection assays for CYR61 as a new marker for benign prostatic hyperplasia. J Biomol Screen. 2003 Dec; 8: 701-11

108200 Sakamoto, S., Yokoyama, M., Zhang, X., Prakash, K., Nagao, K., Hatanaka, T., Getzenberg, R. H., Kakehi, Y. Increased expression of CYR61, an extracellular matrix signaling protein, in human benign prostatic hyperplasia and its regulation by lysophosphatidic acid. Endocrinology. 2004 Jun; 145: 2929-40

119030 Sakko, A. J., Ricciardelli, C., Mayne, K., Tilley, W. D., Lebaron, R. G., Horsfall, D. J. Versican accumulation in human prostatic fibroblast cultures is enhanced by prostate cancer cell-derived transforming growth factor beta1. Cancer Res. 2001 Feb 1; 61: 926-30

118570 Sakr, W. A., Partin, A. W. Histological markers of risk and the role of high-grade prostatic intraepithelial neoplasia. Urology. 2001 Apr; 57: 115-20

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

138930 Salah, M. A. Ultrasonography of urinary tract lesions caused by bilharziasis in Yemeni patients. BJU Int. 2000 Nov; 86: 790-3

164750 Salah, M. A., Boszormenyi-Nagy, G., Al Absi, M., Nagi, M. A., Alsaaidi, A. A. Ultrasonographic urinary tract abnormalities in Schistosoma haematobium infection. Int Urol Nephrol. 1999; 31: 163-72

102300 Salam, M. T., Ursin, G., Skinner, E. C., Dessissa, T., Reichardt, J. K. Associations between polymorphisms in the steroid 5-alpha reductase type II (SRD5A2) gene and benign prostatic hyperplasia and prostate cancer. Urol Oncol. 2005 Jul-Aug; 23: 246-53

103780 Salazar, E. L., Calzada, L., Escontria, M. Estradiol/androgen receptors during aging: microsomal distribution in human benign prostatic hypertrophy. Arch Androl. 2005 Jan-Feb; 51: 49-53

154610 Saleh, A. F., Nahar Rahman, A. J., Salam, M. A. and Islam, F. Role of fine needle aspiration cytology (FNAC) in the diagnosis of prostatic lesions with histologic correlation. Bangladesh Med Res Counc Bull. 2005; 31: 95-103

109510 Saleh, K. Y., Smith, N. B. Two-dimensional ultrasound phased array design for tissue ablation for treatment of benign prostatic hyperplasia. Int J Hyperthermia. 2004 Feb; 20: 31-Jul

116010 Salinas Sanchez, A. S., Hernandez Millan, I. R., Segura Martin, M., Lorenzo Romero, J. G., Virseda Rodriguez, J. A. The impact of benign prostatic hyperplasia surgery on patients' quality of life. Urol Int. 2002; 68: 32-7

133290 Salinas, J., Virseda, M., Arredondo, F. Validity of cuff-uroflow as a diagnostic technique for bladder outlet obstruction in males. Scand J Urol Nephrol. 2003; 37: 316-21

116100 Salinas-Sanchez, A. S., Hernandez-Millan, I., Lorenzo-Romero, J. G., Segura-Martin, M., Fernandez-Olano, C., Virseda-Rodriguez, J. A. Quality of life of patients on the waiting list for benign prostatic hyperplasia surgery. Qual Life Res. 2001; 10: 543-53

150880 Salonia, A., Suardi, N., Naspro, R., Mazzoccoli, B., Zanni, G., Gallina, A., Bua, L., Scattoni, V., Rigatti, P. and Montorsi, F. Holmium laser enucleation versus open prostatectomy for benign prostatic hyperplasia: an inpatient cost analysis. Urology. 2006; 68: 302-6

136150 Salvador-Bayarri, J., Rodriguez-Villamil, L., Imperatore, V., Palou Redorta, J., Villavicencio-Mavrich, H., Vicente-Rodriguez, J. Bladder neoplasms after nephroureterectomy: does the surgery of the lower ureter, transurethral resection or open surgery, influence the evolution?. Eur Urol. 2002 Jan; 41: 30-3

118360 Samkange, C., Bhagat, K. Pharmacological management of benign prostatic hyperplasia. Cent Afr J Med. 2000 Aug; 46: 224-8

106170 Samli, M. M., Dincel, C. Terazosin and doxazosin in the treatment of BPH: results of a randomized study with crossover in non-responders. Urol Int. 2004; 73: 125-9

154560 Samson, G. and Cardenas, D. D. Neurogenic bladder in spinal cord injury. Phys Med Rehabil Clin N Am. 2007; 18: 255-74, vi

153990 Samuel, C. S., Lin, F., Hossain, M. A., Zhao, C., Ferraro, T., Bathgate, R. A., Tregear, G. W. and Wade, J. D. Improved chemical synthesis and demonstration of the relaxin receptor binding affinity and biological activity of mouse relaxin. Biochemistry. 2007; 46: 5374-81

122050 Sanchez-Chapado, M., Guil, M., Alfaro, V., Badiella, L., Fernandez-Hernando, N. Safety and efficacy of sustained-release alfuzosin on lower urinary tract symptoms suggestive of benign prostatic hyperplasia in 3,095 Spanish patients evaluated during general practice. Eur Urol. 2000 Apr; 37: 421-7

120890 Sanchez-Chapado, M., Guil, M., Badiella, L. I., Fernandez-Hernando, N., Alfaro, V. The clinical uroselectivity of alfuzosin is not significantly affected by the age of patients with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. BJU Int. 2000 Sep; 86: 432-8

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

133640 Sandfeldt, L., Hahn, R. G. Cardiovascular risk factors correlate with prostate size in men with bladder outlet obstruction. BJU Int. 2003 Jul; 92: 64-8

104880 Sandhu, J. S., Ng, C., Vanderbrink, B. A., Egan, C., Kaplan, S. A., Te, A. E. High-power potassium-titanyl-phosphate photoselective laser vaporization of prostate for treatment of benign prostatic hyperplasia in men with large prostates. Urology. 2004 Dec; 64: 1155-9

106540 Sandhu, J. S., Te, A. E. The role of 5-alpha-reductase inhibition as monotherapy in view of the MTOPS data. Curr Urol Rep. 2004 Aug; 5: 274-9

124080 Sandhu, J. S., Vaughan, E. D. , Jr. Combination therapy for the pharmacological management of benign prostatic hyperplasia: rationale and treatment options. Drugs Aging. 2005; 22: 901-12

135780 Sangkhathat, S., Patrapinyokul, S., Tadtayathikom, K. Associated genitourinary tract anomalies in anorectal malformations: a thirteen year review. J Med Assoc Thai. 2002 Mar; 85: 289-96

152420 Sanlioglu, A. D., Koksal, I. T., Ciftcioglu, A., Baykara, M., Luleci, G. and Sanlioglu, S. Differential expression of TRAIL and its receptors in benign and malignant prostate tissues. J Urol. 2007; 177: 359-64

153300 Sansoe, G. and Wong, F. Natriuretic and aquaretic effects of intravenously infused calcium in preascitic human cirrhosis: physiopathological and clinical implications. Gut. 2007; 56: 1117-23

113410 Santamaria, L., Martin, R., Martin, J. J., Alonso, L. Stereologic estimation of the number of neuroendocrine cells in normal human prostate detected by immunohistochemistry. Appl Immunohistochem Mol Morphol. 2002 Sep; 10: 275-81

151850 Santillo, V. M. and Lowe, F. C. Treatment of benign prostatic hyperplasia in patients with cardiovascular disease. Drugs Aging. 2006; 23: 795-805

113420 Santucci, R. A., McAninch, J. W. Urethral reconstruction of strictures resulting from treatment of benign prostatic hypertrophy and prostate cancer. Urol Clin North Am. 2002 May; 29: 417-27, viii

106920 Santucci, R. A., McAninch, J. W., Mario, L. A., Rajpurkar, A., Chopra, A. K., Miller, K. S., Armenakas, N. A., Tieng, E. B., Morey, A. F. Urethroplasty in patients older than 65 years: indications, results, outcomes and suggested treatment modifications. J Urol. 2004 Jul; 172: 201-3

105410 Sanz, G., Rioja, J., Zudaire, J. J., Berian, J. M., Richter, J. A. PET and prostate cancer. World J Urol. 2004 Nov; 22: 351-2

150790 Saracino, A., Santarsia, G., Latorraca, A. and Gaudiano, V. Early assessment of renal resistance index after kidney transplant can help predict long-term renal function. Nephrol Dial Transplant. 2006; 21: 2916-20

125950 Sarasin, S. M., Walton, M. J., Singh, H. P., Clark, D. I. Can a urinary tract symptom score predict the development of postoperative urinary retention in patients undergoing lower limb arthroplasty under spinal anaesthesia? A prospective study. Ann R Coll Surg Engl. 2006 Jul; 88: 394-8

133270 Sarica, K., Erbagci, A., Yagci, F., Yurtseven, C., Buyukbebeci, O., Karakurum, G. Multidisciplinary evaluation of occult spinal dysraphism in 47 children. Scand J Urol Nephrol. 2003; 37: 329-34

113470 Sarma, A. V., Jacobsen, S. J., Girman, C. J., Jacobson, D. J., Roberts, R. O., Rhodes, T., Lieber, M. Concomitant longitudinal changes in frequency of and bother from lower urinary tract symptoms in community dwelling men. J Urol. 2002 Oct; 168: 1446-52

103200 Sarma, A. V., Jacobson, D. J., McGree, M. E., Roberts, R. O., Lieber, M. M., Jacobsen, S. J. A population based study of incidence and treatment of benign prostatic hyperplasia among residents of Olmsted County, Minnesota: 1987 to 1997. J Urol. 2005 Jun; 173: 2048-53

115660 Sarma, A. V., Jaffe, C. A., Schottenfeld, D., Dunn, R., Montie, J. E., Cooney, K. A., Wei, J. T. Insulin-like growth factor-1, insulin-like growth factor binding protein-3, and body mass index: clinical correlates of prostate volume among Black men. Urology. 2002 Mar; 59: 362-7

105310 Sarma, A. V., McLaughlin, J. C., Jacobsen, S. J., Logie, J., Dolin, P., Dunn, R. L., Cooney, K. A., Montie, J. E., Schottenfeld, D., Wei, J. T. Longitudinal changes in lower urinary tract symptoms among a cohort of black American men: the Flint Men's Health Study. Urology. 2004 Nov; 64: 959-65

110860 Sarma, A. V., Wei, J. T., Jacobson, D. J., Dunn, R. L., Roberts, R. O., Girman, C. J., Lieber, M. M., Cooney, K. A., Schottenfeld, D., Montie, J. E., Jacobsen, S. J. Comparison of lower urinary tract symptom severity and associated bother between community-dwelling black and white men: the Olmsted County Study of Urinary Symptoms and Health Status and the Flint Men's Health Study. Urology. 2003 Jun; 61: 1086-91

120490 Sasaki, R., Habuchi, T., Sato, K., Akao, T., Kakinuma, H., Zhang, L. Q., Wang, L., Matsuo, S., Sasaki, S., Ogawa, O., Kato, T. The clinical utility of measuring total PSA, PSA density, gamma-seminoprotein and gamma-seminoprotein/total PSA in prostate cancer prediction. Jpn J Clin Oncol. 2000 Aug; 30: 337-42

121720 Sasor, A., Wagrowska-Danilewicz, M., Danilewicz, M. Ki-67 antigen and P53 protein expression in benign and malignant prostatic lesions. Immunohistochemical quantitative study. Pol J Pathol. 2000; 51: 31-6

112370 Satia-Abouta, J., Kristal, A. R., Patterson, R. E., Littman, A. J., Stratton, K. L., White, E. Dietary supplement use and medical conditions: the VITAL study. Am J Prev Med. 2003 Jan; 24: 43-51

132970 Sato, K., Tsuchiya, N., Habuchi, T., Satoh, S., Shimoda, N., Kato, T. Total cystoprostatectomy in the treatment of locally advanced prostate carcinoma. Aktuelle Urol. 2003 Jul; 34: 259-61

160980 Satoh, W., Nakada, T. Comparison of voiding disturbances in patients with LUTS and BPH at home and by episodic checks at an outpatient clinic. Int Urol Nephrol. 1999; 31: 211-20

139240 Sattari, A., Kampouridis, S., Damry, N., Hainaux, B., Ham, H. R., Vandewalle, J. C., Mols, P. CT and 99mTc-DMSA scintigraphy in adult acute pyelonephritis: a comparative study. J Comput Assist Tomogr. 2000 Jul-Aug; 24: 600-4

137610 Sautter, T., Herzog, A., Hauri, D., Schurch, B. Transient paralysis of the bladder due to wound botulism. Eur Urol. 2001 May; 39: 610-2

108150 Savinainen, K. J., Linja, M. J., Saramaki, O. R., Tammela, T. L., Chang, G. T., Brinkmann, A. O., Visakorpi, T. Expression and copy number analysis of TRPS1, EIF3S3 and MYC genes in breast and prostate cancer. Br J Cancer. 2004 Mar 8; 90: 1041-6

116350 Savoca, G., De Stefani, S., Gattuccio, I., Paolinelli, D., Stacul, F., Belgrano, E. Percutaneous ethanol injection of the prostate as minimally invasive treatment for benign prostatic hyperplasia: preliminary report. Eur Urol. 2001 Nov; 40: 504-8

119190 Saw, S., Aw, T. C. Age-related reference intervals for free and total prostate-specific antigen in a Singaporean population. Pathology. 2000 Nov; 32: 245-9

117550 Sawada, K., Okada, S., Kuroda, A., Watanabe, S., Sawada, Y., Tanaka, H. 4-(Benzoylindolizinyl)butyric acids; novel nonsteroidal inhibitors of steroid 5alpha-reductase. III. Chem Pharm Bull (Tokyo). 2001 Jul; 49: 799-813

116120 Scarpa, R. M. Lower urinary tract symptoms: what are the implications for the patients?. Eur Urol. 2001; 40 Suppl 4: 20-Dec

122060 Scarpa, R. M., De Lisa, A., Porru, D., Usai, E. Large benign prostatic hyperplasia means impossible ureteroscopy: myth or reality?. Eur Urol. 2000 Apr; 37: 381-5

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

160540 Scattoni, V., Raber, M., Montorsi, F., Da Pozzo, L., Brausi, M., Calori, G., Freschi, M., Rigatti, P. Percent of free serum prostate-specific antigen and histological findings in patients undergoing open prostatectomy for benign prostatic hyperplasia. Eur Urol. 1999 Dec; 36: 621-30

130620 Scelzi, S., Giubilei, G., Bartoletti, R., Di Loro, F., Mondaini, N., Crisci, A. Nephrogenic adenoma of bladder after ibuprofen abuse. Urology. 2004 Nov; 64: 1030

130060 Schaal, C. H., Costa, R. P., Sala, F. C., Vanni, A. P., Cortez, J. P. Longitudinal urethral sling with prepubic and retropubic fixation for male urinary incontinence. Int Braz J Urol. 2004 Jul-Aug; 30: 307-11; discussion 312

100510 Schaefer, W. Re: Nakai H, Yamanishi T, Yasuda K, Kitahara S, Suzuki T. 2004. Correlation between lower urinary tract symptoms and urethral function in benign prostatic hyperplasia. Neurourol Urodyn. 2006; 25: 99-100

161330 Schafer, W., Tammela, T. L., Barrett, D. M., Abrams, P., Hedlund, H., Rollema, H. J., Nordling, J., Andersen, J. T., Hald, T., Matos-Ferriera, A., Bruskewitz, R., Miller, P., Mustonen, S., Cannon, A., Malice, M. P., Jacobsen, C. A., Bach, M. A. Continued improvement in pressure-flow parameters in men receiving finasteride for 2 years. Finasteride Urodynamics Study Group. Urology. 1999 Aug; 54: 278-83

108090 Schalken, J. A. Molecular and cellular prostate biology: origin of prostate-specific antigen expression and implications for benign prostatic hyperplasia. BJU Int. 2004 Mar; 93 Suppl 1: 5-9

102280 Schalken, J. A., Bergh, A., Bono, A., Foster, C., Gospadarowicz, M., Isaacs, W. B., Rubin, M., Schroder, F., Tribukait, B., Tsukamotot, T., Wiklund, P. Molecular prostate cancer pathology: current issues and achievements. Scand J Urol Nephrol Suppl. 2005 May; : 82-93

160110 Schally, A. V. LH-RH analogues: I. Their impact on reproductive medicine. Gynecol Endocrinol. 1999 Dec; 13: 401-9

120020 Schapmans, S., Van Leuven, L., Cortvriend, J., Beelaerts, W., Van Erps, P. Phyllodes tumor of the prostate. A case report and review of the literature. Eur Urol. 2000 Nov; 38: 649-53

122450 Schatzl, G., Brossner, C., Schmid, S., Kugler, W., Roehrich, M., Treu, T., Szalay, A., Djavan, B., Schmidbauer, C. P., Soregi, S., Madersbacher, S. Endocrine status in elderly men with lower urinary tract symptoms: correlation of age, hormonal status, and lower urinary tract function. The Prostate Study Group of the Austrian Society of Urology. Urology. 2000 Mar; 55: 397-402

118900 Schatzl, G., Gsur, A., Bernhofer, G., Haidinger, G., Hinteregger, S., Vutuc, C., Haitel, A., Micksche, M., Marberger, M., Madersbacher, S. Association of vitamin D receptor and 17 hydroxylase gene polymorphisms with benign prostatic hyperplasia and benign prostatic enlargement. Urology. 2001 Mar; 57: 567-72

121750 Schatzl, G., Madersbacher, S., Djavan, B., Lang, T., Marberger, M. Two-year results of transurethral resection of the prostate versus four 'less invasive' treatment options. Eur Urol. 2000 Jun; 37: 695-701

114350 Schatzl, G., Madersbacher, S., Gsur, A., Preyer, M., Haidinger, G., Haitel, A., Vutuc, C., Micksche, M., Marberger, M. Association of polymorphisms within androgen receptor, 5alpha-reductase, and PSA genes with prostate volume, clinical parameters, and endocrine status in elderly men. Prostate. 2002 Jul 1; 52: 130-8

121220 Schatzl, G., Reiter, W. J., Thurridl, T., Waldmuller, J., Roden, M., Soregi, S., Madersbacher, S. Endocrine patterns in patients with benign and malignant prostatic diseases. Prostate. 2000 Aug 1; 44: 219-24

139470 Schatzl, G., Temml, C., Schmidbauer, J., Dolezal, B., Haidinger, G., Madersbacher, S. Cross-sectional study of nocturia in both sexes: analysis of a voluntary health screening project. Urology. 2000 Jul; 56: 71-5

137450 Schatzl, G., Temml, C., Waldmuller, J., Thurridl, T., Haidinger, G., Madersbacher, S. A comparative cross-sectional study of lower urinary tract symptoms in both sexes. Eur Urol. 2001 Aug; 40: 213-9

132560 Schaub, S., Rush, D., Wilkins, J., Gibson, I. W., Weiler, T., Sangster, K., Nicolle, L., Karpinski, M., Jeffery, J., Nickerson, P. Proteomic-based detection of urine proteins associated with acute renal allograft rejection. J Am Soc Nephrol. 2004 Jan; 15: 219-27

135080 Scheepens, W. A., Jongen, M. M., Nieman, F. H., de Bie, R. A., Weil, E. H., van Kerrebroeck, P. E. Predictive factors for sacral neuromodulation in chronic lower urinary tract dysfunction. Urology. 2002 Oct; 60: 598-602

115250 Schelin, S. Mediating transurethral microwave thermotherapy by intraprostatic and periprostatic injections of mepivacaine epinephrine: effects on treatment time, energy consumption, and patient comfort. J Endourol. 2002 Mar; 16: 117-21

118470 Schelin, S. Microwave thermotherapy in patients with benign prostatic hyperplasia and chronic urinary retention. Eur Urol. 2001 Apr; 39: 400-4

151890 Schelin, S., Geertsen, U., Walter, S., Spangberg, A., Duelund-Jacobsen, J., Kroyer, K., Hjertberg, H., Vatne, V., Richthoff, J. and Nordling, J. Feedback microwave thermotherapy versus TURP/prostate enucleation surgery in patients with benign prostatic hyperplasia and persistent urinary retention: a prospective, randomized, controlled, multicenter study. Urology. 2006; 68: 795-9

116070 Scherr, D., Pitts, W. R. , Jr., Vaughn, E. D. , Jr. Diethylstilbesterol revisited: androgen deprivation, osteoporosis and prostate cancer. J Urol. 2002 Feb; 167: 535-8

103510 Schmelz, M., Moll, R., Hesse, U., Prasad, A. R., Gandolfi, J. A., Hasan, S. R., Bartholdi, M., Cress, A. E. Identification of a stem cell candidate in the normal human prostate gland. Eur J Cell Biol. 2005 Mar; 84: 341-54

103340 Schmid, D. T., John, H., Zweifel, R., Cservenyak, T., Westera, G., Goerres, G. W., von Schulthess, G. K., Hany, T. F. Fluorocholine PET/CT in patients with prostate cancer: initial experience. Radiology. 2005 May; 235: 623-8

165800 Schmidlin, F. R., Iselin, C. E., Naimi, A., Rohner, S., Borst, F., Farshad, M., Niederer, P., Graber, P. The higher injury risk of abnormal kidneys in blunt renal trauma. Scand J Urol Nephrol. 1998 Dec; 32: 388-92

105140 Schmidt, A., Sommer, F., Ozgur, E., Klotz, T., Engelmann, U., Addicks, K., Bloch, W. Vessels in benign prostatic hyperplasia contain more binding sites for endostatin than vessels in normal prostate tissue. Eur Urol. 2004 Dec; 46: 765-7

108890 Schmidt, B., Anastasiadis, A. G., Seifert, H. H., Franke, K. H., Oya, M., Ackermann, R. Detection of circulating prostate cells during radical prostatectomy by standardized PSMA RT-PCR: association with positive lymph nodes and high malignant grade. Anticancer Res. 2003 Sep-Oct; 23: 3991-9

110110 Schmittgen, T. D., Teske, S., Vessella, R. L., True, L. D., Zakrajsek, B. A. Expression of prostate specific membrane antigen and three alternatively spliced variants of PSMA in prostate cancer patients. Int J Cancer. 2003 Nov 1; 107: 323-9

155340 Schned, A. R., Andrew, A. S., Marsit, C. J., Zens, M. S., Kelsey, K. T. and Karagas, M. R. Survival following the diagnosis of noninvasive bladder cancer: WHO/International Society of Urological Pathology versus WHO classification systems. J Urol. 2007; 178: 1196-200; discussion 1200

139070 Schneeweiss, S. Sensitivity analysis of the diagnostic value of endoscopies in cross-sectional studies in the absence of a gold standard. Int J Technol Assess Health Care. 2000 Summer; 16: 834-41

100970 Schostak, M., Krause, H., Miller, K., Schrader, M., Weikert, S., Christoph, F., Kempkensteffen, C., Kollermann, J. Quantitative real-time RT-PCR of CD24 mRNA in the detection of prostate cancer. BMC Urol. 2006; 6: 7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

151860 Schostak, M., Miller, K., Krause, H., Schrader, M., Kempkensteffen, C. and Kollermann, J. Kinetic fluorescence reverse transcriptase-polymerase chain reaction for alpha-methylacyl CoA racemase distinguishes prostate cancer from benign lesions. Cancer Detect Prev. 2006; 30: 449-54

137750 Schreiber, M. A., Coburn, M. Complete upper and lower urinary tract obstruction caused by penetrating pellet injury of the kidney. J Trauma. 2001 Jun; 50: 1144-6

103700 Schroder, F. H. Detection of prostate cancer: the impact of the European Randomized Study of Screening for Prostate Cancer (ERSPC). Can J Urol. 2005 Feb; 12 Suppl 1: 2-6; discussion 92-3

128340 Schroeder, A. R., Newman, T. B., Wasserman, R. C., Finch, S. A., Pantell, R. H. Choice of urine collection methods for the diagnosis of urinary tract infection in young, febrile infants. Arch Pediatr Adolesc Med. 2005 Oct; 159: 915-22

116150 Schulman, C. C. Long-term aspects of medical treatment of BPH. Eur Urol. 2001; 40 Suppl 3: 8-12

110030 Schulman, C. C. Lower urinary tract symptoms/benign prostatic hyperplasia: minimizing morbidity caused by treatment. Urology. 2003 Sep; 62: 24-33

121130 Schulman, C. C. The aging male: a challenge for urologists. Curr Opin Urol. 2000 Jul; 10: 337-42

160550 Schulman, C. C., Cortvriend, J., Jonas, U., Lock, T. M., Vaage, S., Speakman, M. J. Tamsulosin: 3-year long-term efficacy and safety in patients with lower urinary tract symptoms suggestive of benign prostatic obstruction: analysis of a European, multinational, multicenter, open-label study. European Tamsulosin Study Group. Eur Urol. 1999 Dec; 36: 609-20

117110 Schulman, C. C., Lock, T. M., Buzelin, J. M., Boeminghaus, F., Stephenson, T. P., Talja, M. Long-term use of tamsulosin to treat lower urinary tract symptoms/benign prostatic hyperplasia. J Urol. 2001 Oct; 166: 1358-63

114480 Schulman, C., Lunenfeld, B. The ageing male. World J Urol. 2002 May; 20: 10-Apr

100450 Schulman, C., Pommerville, P., Hofner, K., Wachs, B. Long-term therapy with the dual 5alpha-reductase inhibitor dutasteride is well tolerated in men with symptomatic benign prostatic hyperplasia. BJU Int. 2006 Jan; 97: 73-9; discussion 79-80

105180 Schultheiss, D., Machtens, S., Jonas, U. Testosterone therapy in the ageing male: what about the prostate?. Andrologia. 2004 Dec; 36: 355-65

164190 Schultz, F. W., Geleijns, J., Holscher, H. C., Weststrate, J., Zonderland, H. M., Zoetelief, J. Radiation burden to paediatric patients due to micturating cystourethrography examinations in a Dutch children's hospital. Br J Radiol. 1999 Aug; 72: 763-72

131320 Schultz, P. L., Donnell, R. F. Prostatitis: the cost of disease and therapies to patients and society. Curr Urol Rep. 2004 Aug; 5: 317-9

114760 Schulz, M. W., Chen, J., Woo, H. H., Keech, M., Watson, M. E., Davey, P. J. A comparison of techniques for eliciting patient preferences in patients with benign prostatic hyperplasia. J Urol. 2002 Jul; 168: 155-9

165250 Schuster, T., Dietz, H. G., Schutz, S. Anderson-Hynes pyeloplasty in horseshoe kidney in children: is it effective without symphysiotomy?. Pediatr Surg Int. 1999; 15: 230-3

112210 Schut, I. C., Waterfall, P. M., Ross, M., O'Sullivan, C., Miller, W. R., Habib, F. K., Bayne, C. W. MUC1 expression, splice variant and short form transcription (MUC1/Z, MUC1/Y) in prostate cell lines and tissue. BJU Int. 2003 Feb; 91: 278-83

151720 Schwarz, A., Rustien, G., Merkel, S., Radermacher, J. and Haller, H. Decreased renal transplant function after parathyroidectomy. Nephrol Dial Transplant. 2007; 22: 584-91

156820 Schwarz, S., Obermuller-Jevic, U. C., Hellmis, E., Koch, W., Jacobi, G. and Biesalski, H. K. Lycopene inhibits disease progression in patients with benign prostate hyperplasia. J Nutr. 2008; 138: 49-53

137490 Schwinn, D. A. Novel role for alpha1-adrenergic receptor subtypes in lower urinary tract symptoms. BJU Int. 2000 Oct; 86 Suppl 2: 11-20; discussion 20-2

137320 Schwinn, D. A. The role of alpha1-adrenergic receptor subtypes in lower urinary tract symptoms. BJU Int. 2001 Sep; 88 Suppl 2: 27-34; discussion 49-50

123260 Schwinn, D. A., Afshari, N. A. alpha(1)-Adrenergic receptor antagonists and the iris: new mechanistic insights into floppy iris syndrome. Surv Ophthalmol. 2006 Sep-Oct; 51: 501-12

139800 Schwinn, D. A., Michelotti, G. A. alpha1-adrenergic receptors in the lower urinary tract and vascular bed: potential role for the alpha1d subtype in filling symptoms and effects of ageing on vascular expression. BJU Int. 2000 Apr; 85 Suppl 2: 6-11

105160 Schwinn, D. A., Price, D. T., Narayan, P. alpha1-Adrenoceptor subtype selectivity and lower urinary tract symptoms. Mayo Clin Proc. 2004 Nov; 79: 1423-34

161690 Schwinn, D. A., Price, R. R. Molecular pharmacology of human alpha1-adrenergic receptors: unique features of the alpha 1a-subtype. Eur Urol. 1999; 36 Suppl 1: 7-10

100060 Sciarra, A., Salciccia, S., Albanesi, L., Cardi, A., D'Eramo, G., Di Silverio, F. Use of cyclooxygenase-2 inhibitor for prevention of urethral strictures secondary to transurethral resection of the prostate. Urology. 2005 Dec; 66: 1218-22

113080 Sciarra, A., Voria, G., Mariotti, G., Gentile, V., Pastore, A., Di Silverio, F. Histopathological aspects associated with the diagnosis of benign prostatic hyperplasia: clinical implications. Urol Int. 2002; 69: 253-62

121480 Sciarra, F., Toscano, V. Role of estrogens in human benign prostatic hyperplasia. Arch Androl. 2000 May-Jun; 44: 213-20

103710 Scoles, P. Getting ready for certification: benign prostatic hyperplasia. Urol Nurs. 2005 Feb; 25: 61

150310 Scorilas, A. and Gregorakis, A. K. mRNA expression analysis of human kallikrein 11 (KLK11) may be useful in the discrimination of benign prostatic hyperplasia from prostate cancer after needle prostate biopsy. Biol Chem. 2006; 387: 789-93

112610 Scorilas, A., Plebani, M., Mazza, S., Basso, D., Soosaipillai, A. R., Katsaros, N., Pagano, F., Diamandis, E. P. Serum human glandular kallikrein (hK2) and insulin-like growth factor 1 (IGF-1) improve the discrimination between prostate cancer and benign prostatic hyperplasia in combination with total and %free PSA. Prostate. 2003 Feb 15; 54: 220-9

122520 Scorilas, A., Yu, H., Soosaipillai, A. R., Gregorakis, A. K., Diamandis, E. P. Comparison of the percent free prostate-specific antigen levels in the serum of healthy men and in men with recurrent prostate cancer after radical prostatectomy. Clin Chim Acta. 2000 Feb 25; 292: 127-38

115020 Secrist, J. Getting ready for certification: benign prostatic hyperplasia. Urol Nurs. 2000 Aug; 20: 266

118030 Sedelaar, J. P., van Roermund, J. G., van Leenders, G. L., Hulsbergen-van de Kaa, C. A., Wijkstra, H., de la Rosette, J. J. Three-dimensional grayscale ultrasound: evaluation of prostate cancer compared with benign prostatic hyperplasia. Urology. 2001 May; 57: 914-20

156140 Seeger, J., Ziegelmeier, M., Bachmann, A., Lossner, U., Kratzsch, J., Bluher, M., Stumvoll, M. and Fasshauer, M. Serum levels of the adipokine vaspin in relation to metabolic and renal parameters. J Clin Endocrinol Metab. 2008; 93: 247-51

120960 Seelan, R. S., Qian, C., Yokomizo, A., Bostwick, D. G., Smith, D. I., Liu, W. Human acid ceramidase is overexpressed but not mutated in prostate cancer. Genes Chromosomes Cancer. 2000 Oct; 29: 137-46

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

128230 Seftel, A. Alfuzosin 10 mg once daily improves sexual function in men with lower urinary tract symptoms and concomitant sexual dysfunction. J Urol. 2005 Nov; 174: 1940-1

100860 Seftel, A. Benign prostatic hyperplasia (BPH) and prostatitis: prevalence of painful ejaculation in men with clinical BPH. J Urol. 2005 Nov; 174: 1939

129360 Seftel, A. D. Association between lower urinary tract symptoms and erectile dysfunction. J Urol. 2005 Jun; 173: 2077-8

132040 Seftel, A. D., Mohammed, M. A., Althof, S. E. Erectile dysfunction: etiology, evaluation, and treatment options. Med Clin North Am. 2004 Mar; 88: 387-416, xi

153670 Seftel, A., Rosen, R. and Kuritzky, L. Physician perceptions of sexual dysfunction related to benign prostatic hyperplasia (BPH) symptoms and sexual side effects related to BPH medications. Int J Impot Res. 2007; 19: 386-92

152240 Segal, R., Lubart, E., Leibovitz, A., Iaina, A. and Caspi, D. Renal effects of low dose aspirin in elderly patients. Isr Med Assoc J. 2006; 8: 679-82

115340 Segawa, Y., Yoshimura, R., Hase, T., Nakatani, T., Wada, S., Kawahito, Y., Kishimoto, T., Sano, H. Expression of peroxisome proliferator-activated receptor (PPAR) in human prostate cancer. Prostate. 2002 May 1; 51: 108-16

129110 Seim, A., Hoyo, C., Ostbye, T., Vatten, L. The prevalence and correlates of urinary tract symptoms in Norwegian men: the HUNT study. BJU Int. 2005 Jul; 96: 88-92

100780 Sein Anand, J., Chodorowski, Z., Hajduk, A. Repeated intensification of lower urinary tract symptoms in the patient with benign prostatic hyperplasia during bisoprolol treatment. Przegl Lek. 2005; 62: 522-3

116310 Seitz, C., Djavan, B., Marberger, M. Morphological and biological predictors for treatment outcome of transurethral microwave thermotherapy. Curr Opin Urol. 2002 Jan; 12: 25-32

156720 Seki, N. and Naito, S. Holmium laser for benign prostatic hyperplasia. Curr Opin Urol. 2008; 18: 41-5

152370 Seki, N. and Naito, S. Instrumental treatments for benign prostatic obstruction. Curr Opin Urol. 2007; 17: 17-21

100690 Seki, N., Kai, N., Seguchi, H., Takei, M., Yamaguchi, A., Naito, S. Predictives regarding outcome after transurethral resection for prostatic adenoma associated with detrusor underactivity. Urology. 2006 Feb; 67: 306-10

109800 Seki, N., Mochida, O., Kinukawa, N., Sagiyama, K., Naito, S. Holmium laser enucleation for prostatic adenoma: analysis of learning curve over the course of 70 consecutive cases. J Urol. 2003 Nov; 170: 1847-50

123530 Seki, N., Takei, M., Yamaguchi, A., Naito, S. Analysis of prognostic factors regarding the outcome after a transurethral resection for symptomatic benign prostatic enlargement. Neurourol Urodyn. 2006; 25: 428-32

151510 Sekido, N., Hinotsu, S., Kawai, K., Shimazui, T. and Akaza, H. How many uncomplicated male and female overactive bladder patients reveal detrusor overactivity during urodynamic study?. Int J Urol. 2006; 13: 1276-9

125550 Selden, N. R., Nixon, R. R., Skoog, S. R., Lashley, D. B. Minimal tethered cord syndrome associated with thickening of the terminal filum. J Neurosurg. 2006 Sep; 105: 214-8

119430 Selli, C., Scott, C. A., Garbagnati, F., De Antoni, P., Moro, U., Crisci, A., Rossi, S. Transurethral radiofrequency thermal ablation of prostatic tissue: a feasibility study in humans. Urology. 2001 Jan; 57: 78-82

122490 Sells, H., Donovan, J., Ewings, P., MacDonagh, R. P. The development and validation of a quality-of-life measure to assess partner morbidity in benign prostatic enlargement. BJU Int. 2000 Mar; 85: 440-5

160460 Semmens, J. B., Wisniewski, Z. S., Bass, A. J., Holman, C. D., Rouse, I. L. Trends in repeat prostatectomy after surgery for benign prostate disease: application of record linkage to healthcare outcomes. BJU Int. 1999 Dec; 84: 972-5

136390 Seneviratne, U., Gunasekera, S. Acute small fibre sensory neuropathy: another variant of Guillain-Barre syndrome?. J Neurol Neurosurg Psychiatry. 2002 Apr; 72: 540-2

116580 Sengor, F., Gurdal, M., Tekin, A., Yucebas, E., Beysel, M., Erdogan, K. Neodymium:YAG visual laser ablation of the prostate: 7 years of experience with 230 patients. J Urol. 2002 Jan; 167: 184-7

107190 Senkul, T., Narin, Y., Iseri, C., Sen, B., Karademir, K., Erden, D. Seminal plasma prostate-specific antigen level in benign prostatic hyperplasia. Urol Int. 2004; 72: 332-4

152270 Seppala, E. H., Autio, V., Duggal, P., Ikonen, T., Stenman, U. H., Auvinen, A., Bailey-Wilson, J. E., Tammela, T. L. and Schleutker, J. KLF6 IVS1 -27G>A variant and the risk of prostate cancer in Finland. Eur Urol. 2007; 52: 1076-81

128670 Sepulveda, W., Elorza, C., Gutierrez, J., Vasquez, P., Castro, V. Congenital megalourethra: outcome after prenatal diagnosis in a series of 4 cases. J Ultrasound Med. 2005 Sep; 24: 1303-8

113340 Serafin, A. M., Akudugu, J. M., Bohm, L. Drug resistance in prostate cancer cell lines is influenced by androgen dependence and p53 status. Urol Res. 2002 Oct; 30: 289-94

103300 Serafin, A. M., Bohm, L. Influence of p53 and bcl-2 on chemosensitivity in benign and malignant prostatic cell lines. Urol Oncol. 2005 Mar-Apr; 23: 123-9

115790 Serdar, M. A., Oguz, O., Olgun, A., Seckin, B., Ilgan, S., Hasimi, A., Salih, M., Peker, F., Kutluay, T. Diagnostic approach to prostate cancer using total prostate specific antigen-based parameters together. Ann Clin Lab Sci. 2002 Winter; 32: 22-30

131520 Serels, S. The wet patient: understanding patients with overactive bladder and incontinence. Curr Med Res Opin. 2004 Jun; 20: 791-801

153580 Seron, D., O'Valle, F., Moreso, F., Goma, M., Hueso, M., Grinyo, J. M. and Garcia del Moral, R. Immunophenotype of infiltrating cells in protocol renal allograft biopsies from tacrolimus-versus cyclosporine-treated patients. Transplantation. 2007; 83: 649-52

113360 Serretta, V., Morgia, G., Fondacaro, L., Curto, G., Lo bianco, A., Pirritano, D., Melloni, D., Orestano, F., Motta, M., Pavone-Macaluso, M. Open prostatectomy for benign prostatic enlargement in southern Europe in the late 1990s: a contemporary series of 1800 interventions. Urology. 2002 Oct; 60: 623-7

110650 Serretta, V., Morgia, G., Fondacaro, L., Curto, G., Pirritano, D., Lo Bianco, A., Melloni, D., Orestano, F., Motta, M., Pavone-Macaluso, M. Management of symptomatic benign prostatic hyperplasia in southern Italy: a retrospective analysis of the Sicilian-Calabrian Society of Urology (SSCU) of 32,000 patients. Urol Int. 2003; 71: 16-21

137590 Seseke, F., Zoller, G., Kunze, E. Clear cell adenocarcinoma of the male urethra in association with so-called nephrogenic metaplasia. Urol Int. 2001; 67: 104-8

116470 Severens, J. L., Sonke, G., Laheij, R. J., Verbeek, A. L., De Vries Robbe, P. F. Efficient diagnostic test sequence: applications of the probability-modifying plot. J Clin Epidemiol. 2001 Dec; 54: 1228-37

154250 Seveso, M., Taverna, G., Giusti, G., Benetti, A., Piccinelli, A. and Graziotti, P. Nephron sparing surgery of parenchymal kidney tumours in solitary kidney. Arch Ital Urol Androl. 2007; 79: 12-6

120340 Sezhian, N., Seshagiri, T. V., Suresh, G. Re: A double-blind randomized controlled trial and economic evaluation of transurethral resection vs contact laser vaporization for benign prostatic enlargement: a 3-year follow-up. BJU Int. 2000 Nov; 86: 911

138580 Sfakianakis, G. N., Cavagnaro, F., Zilleruelo, G., Abitbol, C., Montane, B., Georgiou, M., Ezuddin, S., Mallin, W., Sfakianakis, E., Strauss, J. Diuretic MAG3 scintigraphy (F0) in acute pyelonephritis: regional parenchymal dysfunction and comparison with DMSA. J Nucl Med. 2000 Dec; 41: 1955-63

109620 Shabaik, A. Nonepithelial tumors and tumor-like lesions of the prostate gland. Crit Rev Clin Lab Sci. 2003 Aug; 40: 429-72

102620 Shabbir, M., Kirby, R. S. Fact or fiction: what do the benign prostatic hyperplasia data tell us?. Curr Urol Rep. 2005 Jul; 6: 243-50

131760 Shabbir, M., Mikhailidis, D. M., Morgan, R. J. Erectile dysfunction: an underdiagnosed condition associated with multiple risk factors. Curr Med Res Opin. 2004 May; 20: 603-6

105460 Shabbir, M., Mumtaz, F. H. Benign prostatic hyperplasia. J R Soc Health. 2004 Sep; 124: 222-7

104280 Shabbir, M., Shah, J. S., Kirby, R. S. Cardiac failure and benign prostatic hyperplasia: management of common comorbidities. BJU Int. 2005 Feb; 95: 278-80

128960 Shabsigh, R., Perelman, M. A., Lockhart, D. C., Lue, T. F., Broderick, G. A. Health issues of men: prevalence and correlates of erectile dysfunction. J Urol. 2005 Aug; 174: 662-7

152660 Shafer, M. W., Mangold, L., Partin, A. W. and Haab, B. B. Antibody array profiling reveals serum TSP-1 as a marker to distinguish benign from malignant prostatic disease. Prostate. 2007; 67: 255-67

165870 Shafik, A. Demonstration of a 'renogastric reflex' after rapid distension of renal pelvis and ureter in nonanesthetized patients. Urology. 1999 Jan; 53: 38-43

107540 Shafik, A. Transcutaneous electrovesicogram in normal volunteers and patients with interstitial cystitis, neurogenic bladder, benign prostatic hyperplasia, and after cystectomy. Adv Exp Med Biol. 2003; 539: 441-52

111850 Shah, D. K., Kapoor, R., Badlani, G. H. Experience with urethral stent explantation. J Urol. 2003 Apr; 169: 1398-400

132500 Shah, J., Saleem, M., Ellis, B. W. A rare complication of a prostatic stent. Int J Clin Pract. 2003 Dec; 57: 910-1

153090 Shah, M., Butler, M., Bramley, T., Curtice, T. G. and Fine, S. Comparison of health care costs and co-morbidities between men diagnosed with benign prostatic hyperplasia and cardiovascular disease (CVD) and men with CVD alone in a US commercial population. Curr Med Res Opin. 2007; 23: 417-26

105560 Shah, R. B., Kunju, L. P., Shen, R., LeBlanc, M., Zhou, M., Rubin, M. A. Usefulness of basal cell cocktail (34betaE12 + p63) in the diagnosis of atypical prostate glandular proliferations. Am J Clin Pathol. 2004 Oct; 122: 517-23

113670 Shah, R. B., Zhou, M., LeBlanc, M., Snyder, M., Rubin, M. A. Comparison of the basal cell-specific markers, 34betaE12 and p63, in the diagnosis of prostate cancer. Am J Surg Pathol. 2002 Sep; 26: 1161-8

118170 Shah, R., Mucci, N. R., Amin, A., Macoska, J. A., Rubin, M. A. Postatrophic hyperplasia of the prostate gland: neoplastic precursor or innocent bystander?. Am J Pathol. 2001 May; 158: 1767-73

135140 Shah, T., Palit, V., Biyani, S., Elmasry, Y., Puri, R., Flannigan, G. M. Randomised, placebo controlled, double blind study of alfuzosin SR in patients undergoing trial without catheter following acute urinary retention. Eur Urol. 2002 Oct; 42: 329-32; discussion 332

108380 Shaheen, A., Quinlan, D. Feasibility of open simple prostatectomy with early vascular control. BJU Int. 2004 Feb; 93: 349-52

117760 Shakir, S., Pearce, G., Mann, R. D. Finasteride and tamsulosin used in benign prostatic hypertrophy: a review of the prescription-event monitoring data. BJU Int. 2001 Jun; 87: 789-96

100000 Shakya, G., Malla, S., Shakya, K. N. Salient and co-morbid features in benign prostatic hyperplasia: a histopathological study of the prostate. Kathmandu Univ Med J (KUMJ). 2003 Apr-Jun; 1: 104-9

165010 Shalev, J., Meizner, I., Orvieto, R., Mashiach, R., Vardimon, D., Hod, M., Ben-Rafael, Z. Evaluation of the upper uterine cervix by the location of the vesicocervical fold of the urinary bladder to rule out cervical shortening during pregnancy with and without premature contractions. Ultrasound Obstet Gynecol. 1999 Jun; 13: 401-6

155650 Shannon, B. A., Cohen, R. J. and Garrett, K. L. The antibody response to Propionibacterium acnes is an independent predictor of serum prostate-specific antigen levels in biopsy-negative men. BJU Int. 2008; 101: 429-35

110380 Shapiro, J., Kaufman, K. D. Use of finasteride in the treatment of men with androgenetic alopecia (male pattern hair loss). J Investig Dermatol Symp Proc. 2003 Jun; 8: 20-3

107990 Shappell, S. B., Thomas, G. V., Roberts, R. L., Herbert, R., Ittmann, M. M., Rubin, M. A., Humphrey, P. A., Sundberg, J. P., Rozengurt, N., Barrios, R., Ward, J. M., Cardiff, R. D. Prostate pathology of genetically engineered mice: definitions and classification. The consensus report from the Bar Harbor meeting of the Mouse Models of Human Cancer Consortium Prostate Pathology Committee. Cancer Res. 2004 Mar 15; 64: 2270-305

100840 Shariat, S. F., Ashfaq, R., Roehrborn, C. G., Slawin, K. M., Lotan, Y. Expression of survivin and apoptotic biomarkers in benign prostatic hyperplasia. J Urol. 2005 Nov; 174: 2046-50

101370 Sharma, D. P. The management of benign prostatic obstruction: a voice from the Third World. BJU Int. 2006 Apr; 97: 671-2

137960 Sharma, S., Nabi, G., Seth, A., Thulkar, S., Ghai, S. Pelvic lipomatosis presenting as uraemic encephalopathy. Int J Clin Pract. 2001 Mar; 55: 149-50

135670 Shaw, C., Matthews, R. J., Perry, S. I., Assassa, R. P., Williams, K., McGrother, C., Dallosso, H., Jagger, C., Mayne, C., Clarke, M. Validity and reliability of an interviewer-administered questionnaire to measure the severity of lower urinary tract symptoms of storage abnormality: the Leicester Urinary Symptom Questionnaire. BJU Int. 2002 Aug; 90: 205-15

131850 Shaw, C., Matthews, R. J., Perry, S. I., Williams, K., Spiers, N., Assassa, R. P., McGrother, C., Dallosso, H., Jagger, C., Mayne, C., Clarke, M. Validity and reliability of a questionnaire to measure the impact of lower urinary tract symptoms on quality of life: the Leicester Impact Scale. Neurourol Urodyn. 2004; 23: 229-36

119460 Shaw, P. A., Rittenberg, P. V., Brown, T. J. Activation of androgen receptor-associated protein 70 (ARA70) mRNA expression in ovarian cancer. Gynecol Oncol. 2001 Feb; 80: 132-8

130070 Sheir, K. Z., El-Diasty, T. A., Ismail, A. M. Evaluation of a synchronous twin-pulse technique for shock wave lithotripsy: the first prospective clinical study. BJU Int. 2005 Feb; 95: 389-93

101210 Shen, B. Y., Chang, P. L., Lee, S. H., Chen, C. L., Tsui, K. H. Complications following combined transrectal ultrasound-guided prostate needle biopsies and transurethral resection of the prostate. Arch Androl. 2006 Mar-Apr; 52: 123-7

156790 Sherburne, E. and Sawin, K. Investigating time to void after lower-extremity orthopedic surgery in a pediatric population. J Spec Pediatr Nurs. 2008; 13: 36-47

112450 Sherwood, J. B., McConnell, J. D., Vazquez, D. J., Lin, V. K., Roehrborn, C. G. Heterogeneity of 5 alpha-reductase gene expression in benign prostatic hyperplasia. J Urol. 2003 Feb; 169: 575-9

105280 Shi, F. D., Zhang, J. Y., Liu, D., Rearden, A., Elliot, M., Nachtsheim, D., Daniels, T., Casiano, C. A., Heeb, M. J., Chan, E. K., Tan, E. M. Preferential humoral immune response in prostate cancer to cellular proteins p90 and p62 in a panel of tumor-associated antigens. Prostate. 2005 May 15; 63: 252-8

105600 Shi, J., Sun, Z., Cai, T., Yang, L. Development and validation of a quality-of-life scale for Chinese patients with benign prostatic hyperplasia. BJU Int. 2004 Oct; 94: 837-44

156670 Shi, R., Xie, Q., Gang, X., Lun, J., Cheng, L., Pantuck, A. and Rao, J. Effect of saw palmetto soft gel capsule on lower urinary tract symptoms associated with benign prostatic hyperplasia: a randomized trial in Shanghai, China. J Urol. 2008; 179: 610-5

152050 Shibahara, T., Onishi, T., Franco, O. E., Arima, K., Nishikawa, K., Yanagawa, M., Hioki, T., Watanabe, M., Hirokawa, Y., Shiraishi, T. and Sugimura, Y. A G/A polymorphism in the androgen response element 1 of prostate-specific antigen gene correlates with the response to androgen deprivation therapy in Japanese population. Anticancer Res. 2006; 26: 3365-71

123020 Shibata, Y., Ito, K., Suzuki, K., Nakano, K., Fukabori, Y., Suzuki, R., Kawabe, Y., Honma, S., Yamanaka, H. Changes in the endocrine environment of the human prostate transition zone with aging: simultaneous quantitative analysis of prostatic sex steroids and comparison with human prostatic histological composition. Prostate. 2000 Jan; 42: 45-55

126190 Shigemura, K., Arakawa, S., Sakai, Y., Kinoshita, S., Tanaka, K., Fujisawa, M. Complicated urinary tract infection caused by Pseudomonas aeruginosa in a single institution (1999-2003). Int J Urol. 2006 May; 13: 538-42

110890 Shih, S. J., Dall'Era, M. A., Westphal, J. R., Yang, J., Sweep, C. G., Gandour-Edwards, R., Evans, C. P. Elements regulating angiogenesis and correlative microvessel density in benign hyperplastic and malignant prostate tissue. Prostate Cancer Prostatic Dis. 2003; 6: 131-7

103670 Shiina, H., Breault, J. E., Basset, W. W., Enokida, H., Urakami, S., Li, L. C., Okino, S. T., Deguchi, M., Kaneuchi, M., Terashima, M., Yoneda, T., Shigeno, K., Carroll, P. R., Igawa, M., Dahiya, R. Functional Loss of the gamma-catenin gene through epigenetic and genetic pathways in human prostate cancer. Cancer Res. 2005 Mar 15; 65: 2130-8

154110 Shiiya, N., Matsuzaki, K., Kunihara, T., Murashita, T. and Matsui, Y. Management of vital organ malperfusion in acute aortic dissection: proposal of a mechanism-specific approach. Gen Thorac Cardiovasc Surg. 2007; 55: 85-90

126680 Shimabukuro, T., Takahashi, Y., Naito, K. Lower urinary tract symptoms in 1,912 apparently healthy persons of both sexes. Hinyokika Kiyo. 2006 Mar; 52: 189-95

103890 Shimizu, Y., Hiraoka, Y., Iwamoto, K., Takahashi, H., Abe, H. Measurement of residual adenoma after transurethral resection of the prostate by transurethral enucleation technique. Urol Int. 2005; 74: 102-7

114150 Shingleton, W. B., Farabaugh, P., May, W. Three-year follow-up of laser prostatectomy versus transurethral resection of the prostate in men with benign prostatic hyperplasia. Urology. 2002 Aug; 60: 305-8

104330 Shinohara, K. Thermal ablation of prostate diseases: advantages and limitations. Int J Hyperthermia. 2004 Nov; 20: 679-97

119160 Shirakawa, T., Gotoh, A., Gardner, T. A., Kao, C., Zhang, Z. J., Matsubara, S., Wada, Y., Hinata, N., Fujisawa, M., Hanioka, K., Matsuo, M., Kamidono, S. p53 adenoviral vector (Ad-CMV-p53) induced prostatic growth inhibition of primary cultures of human prostate and an experimental rat model. J Gene Med. 2000 Nov-Dec; 2: 426-32

108850 Shirakawa, T., Okada, H., Acharya, B., Zhang, Z., Hinata, N., Wada, Y., Uji, T., Kamidono, S., Gotoh, A. Messenger RNA levels and enzyme activities of 5 alpha-reductase types 1 and 2 in human benign prostatic hyperplasia (BPH) tissue. Prostate. 2004 Jan 1; 58: 33-40

129170 Shiri, R., Hakkinen, J. T., Hakama, M., Huhtala, H., Auvinen, A., Tammela, T. L., Koskimaki, J. Effect of lower urinary tract symptoms on the incidence of erectile dysfunction. J Urol. 2005 Jul; 174: 205-9; discussion 209

127430 Shiri, R., Hakkinen, J., Koskimaki, J., Huhtala, H., Auvinen, A., Hakama, M., Tammela, T. L. Association between the bothersomeness of lower urinary tract symptoms and the prevalence of erectile dysfunction. J Sex Med. 2005 May; 2: 438-44

153250 Shlamovitz, G. Z. and McCullough, L. Blind urethral catheterization in trauma patients suffering from lower urinary tract injuries. J Trauma. 2007; 62: 330-5; discussion 334-5

115640 Shou, J., Soriano, R., Hayward, S. W., Cunha, G. R., Williams, P. M., Gao, W. Q. Expression profiling of a human cell line model of prostatic cancer reveals a direct involvement of interferon signaling in prostate tumor progression. Proc Natl Acad Sci U S A. 2002 Mar 5; 99: 2830-5

136840 Shvartzman, P., Tandeter, H., Peleg, A., Tabenkin, H., Sasson, N., Borkan, J. Lower urinary tract symptoms in primary care--a multicenter community-based study in Israel. Isr Med Assoc J. 2001 Jul; 3: 497-500

155550 Siami, P., Roehrborn, C. G., Barkin, J., Damiao, R., Wyczolkowski, M., Duggan, A., Major-Walker, K. and Morrill, B. B. Combination therapy with dutasteride and tamsulosin in men with moderate-to-severe benign prostatic hyperplasia and prostate enlargement: the CombAT (Combination of Avodart and Tamsulosin) trial rationale and study design. Contemp Clin Trials. 2007; 28: 770-9

100200 Siddiqui, E. J., Shabbir, M., Thompson, C. S., Mumtaz, F. H., Mikhailidis, D. P. Growth inhibitory effect of doxazosin on prostate and bladder cancer cells. Is the serotonin receptor pathway involved?. Anticancer Res. 2005 Nov-Dec; 25: 4281-6

130700 Siddiqui, E., Mumtaz, F. H., Gelister, J. Understanding prostate cancer. J R Soc Health. 2004 Sep; 124: 219-21

111750 Siddiqui, M. K., Srivastava, S., Mehrotra, P. K. Environmental exposure to lead as a risk for prostate cancer. Biomed Environ Sci. 2002 Dec; 15: 298-305

135070 Sigala, S., Mirabella, G., Peroni, A., Pezzotti, G., Simeone, C., Spano, P., Cunico, S. C. Differential gene expression of cholinergic muscarinic receptor subtypes in male and female normal human urinary bladder. Urology. 2002 Oct; 60: 719-25

120980 Signorello, L. B., Kuper, H., Lagiou, P., Wuu, J., Mucci, L. A., Trichopoulos, D., Adami, H. O. Lifestyle factors and insulin-like growth factor 1 levels among elderly men. Eur J Cancer Prev. 2000 Jun; 9: 173-8

161140 Signorello, L. B., Tzonou, A., Lagiou, P., Samoli, E., Zavitsanos, X., Trichopoulos, D. The epidemiology of benign prostatic hyperplasia: a study in Greece. BJU Int. 1999 Aug; 84: 286-91

133400 Signori, G., Tonini, G., Aulenti, V., Taher, B., Rad, F. K., Tosana, M., Ungari, M., Zorzi, F. Clear cell adenocarcinoma of the bladder in a male patient: clinicopathologic analysis of a case. Urol Int. 2003; 71: 228-30

109810 Sikka, S. C. Role of oxidative stress response elements and antioxidants in prostate cancer pathobiology and chemoprevention--a mechanistic approach. Curr Med Chem. 2003 Dec; 10: 2679-92

135710 Silva, C., Ribeiro, M. J., Cruz, F. The effect of intravesical resiniferatoxin in patients with idiopathic detrusor instability suggests that involuntary detrusor contractions are triggered by C-fiber input. J Urol. 2002 Aug; 168: 575-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

117700 Silva, I. S., Morsch, D. M., Urnauer, L., Spritzer, P. M. Androgen-induced cell growth and c-myc expression in human non-transformed epithelial prostatic cells in primary culture. Endocr Res. 2001 Feb-May; 27: 153-69

155630 Silva, J., Silva, C., Saraiva, L., Silva, A., Pinto, R., Dinis, P. and Cruz, F. Intraprostatic botulinum toxin type a injection in patients unfit for surgery presenting with refractory urinary retention and benign prostatic enlargement. Effect on prostate volume and micturition resumption. Eur Urol. 2008; 53: 153-9

105430 Silva, L. C., Saldiva, P. H., Ellinger, F., Filho, B. L., Capelozzi, V. L., Antonangelo, L. Quantitation of conventional histologic parameters and biologic factors in prostatic needle biopsy are useful to distinguish paramalignant from malignant disease. Pathol Res Pract. 2004; 200: 599-608

107890 Silverman, W. M. 'Alphabet soup' and the prostate: LUTS, BPH, BPE, and BOO. J Am Osteopath Assoc. 2004 Feb; 104: S1-4

126210 Sim, H. G., Yip, S. K., Lau, W. K., Tan, Y. H., Wong, M. Y., Cheng, C. W. Team-based approach reduces learning curve in robot-assisted laparoscopic radical prostatectomy. Int J Urol. 2006 May; 13: 560-4

121830 Simak, R., Capodieci, P., Cohen, D. W., Fair, W. R., Scher, H., Melamed, J., Drobnjak, M., Heston, W. D., Stix, U., Steiner, G., Cordon-Cardo, C. Expression of c-kit and kit-ligand in benign and malignant prostatic tissues. Histol Histopathol. 2000 Apr; 15: 365-74

138550 Simon, I., Snow, P. B., Marks, L. S., Christens-Barry, W. A., Epstein, J. I., Bluemke, D. A., Partin, A. W. Neural network prediction of prostate tissue composition based on magnetic resonance imaging analysis. A pilot study. Anal Quant Cytol Histol. 2000 Dec; 22: 445-52

131820 Simon, S. D., Ferrigni, R. G., Novicki, D. E., Lamm, D. L., Swanson, S. S., Andrews, P. E. Mayo Clinic Scottsdale Experience with laparoscopic nephroureterectomy. JSLS. 2004 Apr-Jun; 8: 109-13

102360 Singal, R., Das, P. M., Manoharan, M., Reis, I. M., Schlesselman, J. J. Polymorphisms in the DNA methyltransferase 3b gene and prostate cancer risk. Oncol Rep. 2005 Aug; 14: 569-73

105470 Singal, R., Ferdinand, L., Das, P. M., Reis, I. M., Schlesselman, J. J. Polymorphisms in the methylenetetrahydrofolate reductase gene and prostate cancer risk. Int J Oncol. 2004 Nov; 25: 1465-71

106390 Singal, R., Ferdinand, L., Reis, I. M., Schlesselman, J. J. Methylation of multiple genes in prostate cancer and the relationship with clinicopathological features of disease. Oncol Rep. 2004 Sep; 12: 631-7

154270 Singer, P. High-dose amino acid infusion preserves diuresis and improves nitrogen balance in non-oliguric acute renal failure. Wien Klin Wochenschr. 2007; 119: 218-22

103320 Singh, H., Desai, M. R., Shrivastav, P., Vani, K. Bipolar versus monopolar transurethral resection of prostate: randomized controlled study. J Endourol. 2005 Apr; 19: 333-8

115520 Singh, P., Kumar, R. Quantitative structure-activity relationship study of novel alpha1a-selective adrenoceptor antagonists. J Enzyme Inhib. 2001 Oct; 16: 331-8

155010 Singh, S. K., Agarwal, M. M., Batra, Y. K., Kishore, A. V. and Mandal, A. K. Effect of lumbar-epidural administration of tramadol on lower urinary tract function. Neurourol Urodyn. 2008; 27: 65-70

127800 Singh, S. K., Wadhwa, P., Nada, R., Mohan, V. C., Singh, P., Jha, V. Localized primary amyloidosis of the prostate, bladder and ureters. Int Urol Nephrol. 2005; 37: 495-7

116530 Sinha, A. A., Jamuar, M. P., Wilson, M. J., Rozhin, J., Sloane, B. F. Plasma membrane association of cathepsin B in human prostate cancer: biochemical and immunogold electron microscopic analysis. Prostate. 2001 Nov 1; 49: 172-84

156190 Sinha, A. A., Morgan, J. L., Buus, R. J., Ewing, S. L., Fernandes, E. T., Le, C. and Wilson, M. J. Cathepsin B expression is similar in African-American and Caucasian prostate cancer patients. Anticancer Res. 2007; 27: 3135-41

106100 Sinha, A. A., Quast, B. J., Reddy, P. K., Lall, V., Wilson, M. J., Qian, J., Bostwick, D. G. Microvessel density as a molecular marker for identifying high-grade prostatic intraepithelial neoplasia precursors to prostate cancer. Exp Mol Pathol. 2004 Oct; 77: 153-9

114320 Sinha, A. A., Quast, B. J., Wilson, M. J., Fernandes, E. T., Reddy, P. K., Ewing, S. L., Gleason, D. F. Prediction of pelvic lymph node metastasis by the ratio of cathepsin B to stefin A in patients with prostate carcinoma. Cancer. 2002 Jun 15; 94: 3141-9

117120 Sinha, A. A., Quast, B. J., Wilson, M. J., Fernandes, E. T., Reddy, P. K., Ewing, S. L., Sloane, B. F., Gleason, D. F. Ratio of cathepsin B to stefin A identifies heterogeneity within Gleason histologic scores for human prostate cancer. Prostate. 2001 Sep 15; 48: 274-84

127810 Sinha, M., Chacko, K. N., Kekre, N. S., Gopalakrishnan, G. Tubercular ureteric strictures. J Pak Med Assoc. 2005 Oct; 55: 414-6

153560 Sinnamon, K. T., Courtney, A. E., Maxwell, A. P., McNamee, P. T., Savage, G. and Fogarty, D. G. Level of renal function and serum erythropoietin levels independently predict anaemia post-renal transplantation. Nephrol Dial Transplant. 2007; 22: 1969-73

121820 Sinowatz, F., Schams, D., Einspanier, R., Arnold, G., Pfeffer, M., Temmim-Baker, L., Amselgruber, W., Plendl, J. Cellular localization of fibroblast growth factor 2 (FGF-2) in benign prostatic hyperplasia. Histol Histopathol. 2000 Apr; 15: 475-81

105650 Sion-Vardy, N., Tzikinovsky, A., Bolotyn, A., Segal, S., Fishman, D. Augmented expression of chromogranin A and serotonin in peri-malignant benign prostate epithelium as compared to adenocarcinoma. Pathol Res Pract. 2004; 200: 493-9

130950 Siroky, M. B. Lower urinary tract symptoms: shifting our focus from the prostate to the bladder. J Urol. 2004 Oct; 172: 1237-8

134420 Siroky, M. B. Neurological disorders cerebrovascular disease and parkinsonism. Urol Clin North Am. 2003 Feb; 30: 27-47, v

114000 Sironi, D., Levorato, C. A., Deiana, G., Borgonovo, G., Belussi, D., Ranieri, A., Lembo, A. Decrease of ultrasound estimated bladder weight during tamsulosin treatment in patients with benign prostatic enlargement. Arch Ital Urol Androl. 2002 Jun; 74: 90-4

126030 Siva Prasad, G., Chacko, K. N., Antony, D., Lionel, G., Kekre, N. S., Gopalakrishnan, G. Bladder-sparing surgery in locally advanced nonurological pelvic malignancy. Urol Int. 2006; 77: 18-21

156000 Skalska, A., Klimek, E., Wizner, B., Gasowski, J. and Grodzicki, T. Kidney function and thickness of carotid intima-media complex in patients with treated arterial hypertension. Blood Press. 2007; 16: 367-74

106980 Skolarikos, A., Thorpe, A. C., Neal, D. E. Lower urinary tract symptoms and benign prostatic hyperplasia. Minerva Urol Nefrol. 2004 Jun; 56: 109-22

139640 Sladden, M. J., Hughes, A. M., Hirst, G. H., Ward, J. E. A community study of lower urinary tract symptoms in older men in Sydney, Australia. Aust N Z J Surg. 2000 May; 70: 322-8

165740 Slaven, G. M., Walker, R. J., Zacharias, M., Fawcett, J. P., Hodgson, B. F. Tenoxicam does not alter renal function during anaesthesia in normal individuals. Aust N Z J Med. 1998 Dec; 28: 772-6

100190 Slawin, K. M., Kattan, M. W., Roehrborn, C. G., Wilson, T. Development of nomogram to predict acute urinary retention or surgical intervention, with or without dutasteride therapy, in men with benign prostatic hyperplasia. Urology. 2006 Jan; 67: 84-8

130790 Smelov, V., Perekalina, T., Gorelov, A., Smelova, N., Artemenko, N., Norman, L. In vitro activity of fluoroquinolones, azithromycin and doxycycline against chlamydia trachomatis cultured from men with chronic lower urinary tract symptoms. Eur Urol. 2004 Nov; 46: 647-50

151570 Smilde, T. D., van Veldhuisen, D. J., Navis, G., Voors, A. A. and Hillege, H. L. Drawbacks and prognostic value of formulas estimating renal function in patients with chronic heart failure and systolic dysfunction. Circulation. 2006; 114: 1572-80

107400 Smith, C. P., Chancellor, M. B. Emerging role of botulinum toxin in the management of voiding dysfunction. J Urol. 2004 Jun; 171: 2128-37

120460 Smith, C. P., Kraus, S. R., Nickell, K. G., Boone, T. B. Video urodynamic findings in men with the central cord syndrome. J Urol. 2000 Dec; 164: 2014-7

130100 Smith, C. P., Nishiguchi, J., O'Leary, M., Yoshimura, N., Chancellor, M. B. Single-institution experience in 110 patients with botulinum toxin A injection into bladder or urethra. Urology. 2005 Jan; 65: 37-41

103980 Smith, D., Khoubehi, B., Patel, A. Bipolar electrosurgery for benign prostatic hyperplasia: transurethral electrovaporization and resection of the prostate. Curr Opin Urol. 2005 Mar; 15: 95-100

108140 Smith, P., Rhodes, N. P., Ke, Y., Foster, C. S. Relationship between upregulated oestrogen receptors and expression of growth factors in cultured, human, prostatic stromal cells exposed to estradiol or dihydrotestosterone. Prostate Cancer Prostatic Dis. 2004; 7: 57-62

112720 Smith, P., Rhodes, N. P., Ke, Y., Foster, C. S. Upregulation of estrogen and androgen receptors modulate expression of FGF-2 and FGF-7 in human, cultured, prostatic stromal cells exposed to high concentrations of estradiol. Prostate Cancer Prostatic Dis. 2002; 5: 105-10

138350 Smith, S. D., Wheeler, M. A., Plescia, J., Colberg, J. W., Weiss, R. M., Altieri, D. C. Urine detection of survivin and diagnosis of bladder cancer. JAMA. 2001 Jan 17; 285: 324-8

108650 Smitherman, A. B., Mohler, J. L., Maygarden, S. J., Ornstein, D. K. Expression of annexin I, II and VII proteins in androgen stimulated and recurrent prostate cancer. J Urol. 2004 Feb; 171: 916-20

163770 Smolarczyk, R., Wojcicka-Jagodzinska, J., Piekarski, P., Romejko, E., Czajkowski, K. The biochemical functions of the renal tubules and glomeruli in the course of intrahepatic cholestasis in pregnancy. Eur J Obstet Gynecol Reprod Biol. 2000 Mar; 89: 35-9

135820 Smolkin, V., Koren, A., Raz, R., Colodner, R., Sakran, W., Halevy, R. Procalcitonin as a marker of acute pyelonephritis in infants and children. Pediatr Nephrol. 2002 Jun; 17: 409-12

119470 Soderstrom, T. G., Bjelfman, C., Brekkan, E., Ask, B., Egevad, L., Norlen, B. J., Rane, A. Messenger ribonucleic acid levels of steroid 5 alpha-reductase 2 in human prostate predict the enzyme activity. J Clin Endocrinol Metab. 2001 Feb; 86: 855-8

114790 Soderstrom, T., Wadelius, M., Andersson, S. O., Johansson, J. E., Johansson, S., Granath, F., Rane, A. 5alpha-reductase 2 polymorphisms as risk factors in prostate cancer. Pharmacogenetics. 2002 Jun; 12: 307-12

153740 Sofer, M., Binyamini, J., Ekstein, P. M., Bar-Yosef, Y., Chen, J., Matzkin, H. and Ben-Chaim, J. Holmium laser ureteroscopic treatment of various pathologic features in pediatrics. Urology. 2007; 69: 566-9

137140 Sohn, A. H., Garrett, D. O., Sinkowitz-Cochran, R. L., Grohskopf, L. A., Levine, G. L., Stover, B. H., Siegel, J. D., Jarvis, W. R. Prevalence of nosocomial infections in neonatal intensive care unit patients: Results from the first national point-prevalence survey. J Pediatr. 2001 Dec; 139: 821-7

119750 Sohn, J. H., Kim, D. H., Choi, N. G., Park, Y. E., Ro, J. Y. Caspase-3/CPP32 immunoreactivity and its correlation with frequency of apoptotic bodies in human prostatic carcinomas and benign nodular hyperplasias. Histopathology. 2000 Dec; 37: 555-60

120880 Sokeland, J. Combined sabal and urtica extract compared with finasteride in men with benign prostatic hyperplasia: analysis of prostate volume and therapeutic outcome. BJU Int. 2000 Sep; 86: 439-42

160320 Solano, R. M., Carmena, M. J., Busto, R., Sanchez-Chapado, M., Guijarro, L. G., Prieto, J. C. Identification and functional properties of the pituitary adenylate cyclase activating peptide (PAC1) receptor in human benign hyperplastic prostate. Cell Signal. 1999 Nov; 11: 813-9

153220 Soliman, S. A., Wadie, B. S., Ibrahim el, H. E. and Shehab El-Dein, A. B. Rotoresection versus transurethral resection of the prostate: short-term evaluation of a prospective randomized study. J Urol. 2007; 177: 1036-9

100370 Soman, A. D., Gogtay, J. A. Lower urinary tract symptoms suggestive of benign prostatic hyperplasia: latest update on alpha(1)-adrenoceptor antagonists. BJU Int. 2006 Jan; 97: 198

125970 Song, S. H., Kim, J. K., Song, K., Ahn, H., Kim, C. S. Effectiveness of local anaesthesia techniques in patients undergoing transrectal ultrasound-guided prostate biopsy: a prospective randomized study. Int J Urol. 2006 Jun; 13: 707-10

140290 Sonke, G. S., Heskes, T., Verbeek, A. L., de la Rosette, J. J., Kiemeney, L. A. Prediction of bladder outlet obstruction in men with lower urinary tract symptoms using artificial neural networks. J Urol. 2000 Jan; 163: 300-5

160050 Sonke, G. S., Kiemeney, L. A. Diagnostic research in benign prostatic hyperplasia--from sensitivity to neural networks. Curr Opin Urol. 1999 Jan; 9: 31-7

138910 Sonke, G. S., Kortmann, B. B., Verbeek, A. L., Kiemeney, L. A., Debruyne, F. M., de La Rosette, J. J. Variability of pressure-flow studies in men with lower urinary tract symptoms. Neurourol Urodyn. 2000; 19: 637-51; discussion 651-6

136480 Sonke, G. S., Robertson, C., Verbeek, A. L., Witjes, W. P., de la Rosette, J. J., Kiemeney, L. A. A method for estimating within-patient variability in maximal urinary flow rate adjusted for voided volume. Urology. 2002 Mar; 59: 368-72

156070 Sorensen, K. D., Borre, M., Orntoft, T. F., Dyrskjot, L. and Torring, N. Chromosomal deletion, promoter hypermethylation and downregulation of FYN in prostate cancer. Int J Cancer. 2008; 122: 509-19

156620 Sotelo, R., Clavijo, R., Carmona, O., Garcia, A., Banda, E., Miranda, M. and Fagin, R. Robotic simple prostatectomy. J Urol. 2008; 179: 513-5

104060 Sotelo, R., Spaliviero, M., Garcia-Segui, A., Hasan, W., Novoa, J., Desai, M. M., Kaouk, J. H., Gill, I. S. Laparoscopic retropubic simple prostatectomy. J Urol. 2005 Mar; 173: 757-60

135530 Soulie, M., Seguin, P., Martel, P., Vazzoler, N., Mouly, P., Plante, P. A modified intussuscepted nipple in the Kock pouch urinary diversion: assessment of perioperative complications and functional results. BJU Int. 2002 Sep; 90: 397-402

150350 Soulitzis, N., Karyotis, I., Delakas, D. and Spandidos, D. A. Expression analysis of peptide growth factors VEGF, FGF2, TGFB1, EGF and IGF1 in prostate cancer and benign prostatic hyperplasia. Int J Oncol. 2006; 29: 305-14

111310 Souverein, P. C., Erkens, J. A., de la Rosette, J. J., Leufkens, H. G., Herings, R. M. Drug treatment of benign prostatic hyperplasia and hospital admission for BPH-related surgery. Eur Urol. 2003 May; 43: 528-34

118180 Souverein, P. C., Herings, R. M., De la Rosette, J. J., Man in 't Veld, A. J., Farmer, R. D., Leufkens, H. G. Evaluating adverse cardiovascular effects of drug treatment for benign prostatic hyperplasia (BPH): methodological considerations. J Clin Epidemiol. 2001 May; 54: 518-24

113580 Souverein, P. C., Herings, R. M., Man in 't Veld, A. J., de la Rosette, J. J., Farmer, R. D., Leufkens, H. G. Study of the association between ischemic heart disease and use of alpha-blockers and finasteride indicated for the treatment of benign prostatic hyperplasia. Eur Urol. 2002 Sep; 42: 254-61

103760 Souverein, P. C., van Riemsdijk, M. M., de la Rosette, J. J., Opdam, P. C., Leufkens, H. G. Treatment of benign prostatic hyperplasia and occurrence of prostatic surgery and acute urinary retention: a population-based cohort study in the Netherlands. Eur Urol. 2005 Apr; 47: 505-10

109100 Souverein, P. C., Van Staa, T. P., Egberts, A. C., De la Rosette, J. J., Cooper, C., Leufkens, H. G. Use of alpha-blockers and the risk of hip/femur fractures. J Intern Med. 2003 Dec; 254: 548-54

126230 Sozubir, S., Ergun, G., Celik, A., Ulman, I., Avanoglu, A. The influence of urine osmolality and other easily detected parameters on the response to desmopressin in the management of monosymptomatic nocturnal enuresis in children. Minerva Urol Nefrol. 2006 Jun; 58: 207-12

164080 Spaanderman, M. E., Ekhart, T. H., van Eyck, J., Cheriex, E. C., de Leeuw, P. W., Peeters, L. L. Latent hemodynamic abnormalities in symptom-free women with a history of preeclampsia. Am J Obstet Gynecol. 2000 Jan; 182: 101-7

163480 Spaanderman, M. E., Van Beek, E., Ekhart, T. H., Van Eyck, J., Cheriex, E. C., De Leeuw, P. W., Peeters, L. L. Changes in hemodynamic parameters and volume homeostasis with the menstrual cycle among women with a history of preeclampsia. Am J Obstet Gynecol. 2000 May; 182: 1127-34

107260 Spatafora, S., Canepa, G., Migliari, R., Rotondo, S., Mandressi, A., Puppo, P. Diagnostic procedures by Italian general practitioners in response to lower urinary tract symptoms in male patients: a prospective study. Curr Med Res Opin. 2004 May; 20: 713-21

129960 Spatafora, S., Canepa, G., Migliari, R., Rotondo, S., Mandressi, A., Puppo, P. Effects of a shared protocol between urologists and general practitioners on referral patterns and initial diagnostic management of men with lower urinary tract symptoms in Italy: the Prostate Destination study. BJU Int. 2005 Mar; 95: 563-70

154810 Spatafora, S., Conti, G., Perachino, M., Casarico, A., Mazzi, G. and Pappagallo, G. L. Evidence-based guidelines for the management of lower urinary tract symptoms related to uncomplicated benign prostatic hyperplasia in Italy: updated summary. Curr Med Res Opin. 2007; 23: 1715-32

116110 Speakman, M. J. Initial choices and final outcomes in lower urinary tract symptoms. Eur Urol. 2001; 40 Suppl 4: 21-30

118720 Speakman, M. J. Lower urinary tract symptoms suggestive of benign prostatic obstruction: what is the available evidence for rational management?. Eur Urol. 2001; 39 Suppl 3: 12-Jun

160480 Speakman, M. J. Who should be treated and how? Evidence-based medicine in symptomatic BPH. Eur Urol. 1999; 36 Suppl 3: 40-51

131740 Speakman, M. J., Kirby, R. S., Joyce, A., Abrams, P., Pocock, R. Guideline for the primary care management of male lower urinary tract symptoms. BJU Int. 2004 May; 93: 985-90

101500 Speakman, M., Batista, J., Berges, R., Chartier-Kastler, E., Conti, G., Desgrandchamps, F., Dreikorn, K., Lowe, F., O'Leary, M., Perez, M., Trachtenberg, J., Tubaro, A., Meesen, B., Smets, L., Stoevelaar, H. Integrating risk profiles for disease progression in the treatment choice for patients with lower urinary tract symptoms/benign prostatic hyperplasia: a combined analysis of external evidence and clinical expertise. Prostate Cancer Prostatic Dis. 2005; 8: 369-74

157050 Spencer Netto, F. A., Hamilton, P., Kodama, R., Scarpelini, S., Ortega, S. J., Chu, P., Rizoli, S. B., Tremblay, L. N., Brenneman, F. and Tien, H. C. Retrograde urethrocystography impairs computed tomography diagnosis of pelvic arterial hemorrhage in the presence of a lower urologic tract injury. J Am Coll Surg. 2008; 206: 322-7

112440 Sperandeo, G., Sperandeo, M., Morcaldi, M., Caturelli, E., Dimitri, L., Camagna, A. Transrectal ultrasonography for the early diagnosis of adenocarcinoma of the prostate: a new maneuver designed to improve the differentiation of malignant and benign lesions. J Urol. 2003 Feb; 169: 607-10

129460 Spigt, M. G., Knipschild, P. G., van Schayck, C. P., Knottnerus, J. A. The validity and ethics of giving placebo in a randomized nonpharmacologic trial was evaluated. J Clin Epidemiol. 2005 Apr; 58: 350-6

131030 Spigt, M. G., Knottnerus, J. A., van de Beek, C., van Kerrebroeck, P. E., van Amelsvoort, L. G., van Schayck, C. P. Short-term effects of increased urine output on male bladder function and lower urinary tract symptoms. Urology. 2004 Sep; 64: 499-503

132280 Spigt, M. G., van Schayck, C. P., van Kerrebroeck, P. E., van Mastrigt, R., Knottnerus, J. A. Pathophysiological aspects of bladder dysfunction: a new hypothesis for the prevention of 'prostatic' symptoms. Med Hypotheses. 2004; 62: 448-52

125160 Spigt, M., van Schayck, O., Knipschild, P., Westerterp, K., van de Beek, C., van Kerrebroeck, P., Pel, J., van Mastrigt, R., Knottnerus, A. Is it possible to improve elderly male bladder function by having them drink more water? A randomized trial of effects of increased fluid intake/urine output on male lower urinary tract function. Urology. 2006 Nov; 68: 1031-6

137660 Spinelli, M., Bertapelle, P., Cappellano, F., Zanollo, A., Carone, R., Catanzaro, F., Giardiello, G., De Seta, F. Chronic sacral neuromodulation in patients with lower urinary tract symptoms: results from a national register. J Urol. 2001 Aug; 166: 541-5

163910 Spinosa, D. J., Angle, J. F., Hagspiel, K. D., Kern, J. A., Hartwell, G. D., Matsumoto, A. H. Lower extremity arteriography with use of iodinated contrast material or gadodiamide to supplement CO2 angiography in patients with renal insufficiency. J Vasc Interv Radiol. 2000 Jan; 11: 35-43

108240 Srigley, J. R. Benign mimickers of prostatic adenocarcinoma. Mod Pathol. 2004 Mar; 17: 328-48

155840 Srinivasan, S., Radomski, S., Chung, J., Plazker, T., Singer, S. and Slomovic, A. R. Intraoperative floppy-iris syndrome during cataract surgery in men using alpha-blockers for benign prostatic hypertrophy. J Cataract Refract Surg. 2007; 33: 1826-7

126740 Srinualnad, S., Charoenkraikamol, C., Toraksa, S., Uiprasertkul, M., Amornvesukit, T., Taweemonkongsap, T., Udompunturak, S., Nualyong, C., Tantiwong, A. Prevalence of prostate cancer in aging males receiving PSA (prostate specific antigen) screening test (A campaign for celebration of Siriraj Established Day). J Med Assoc Thai. 2006 Jan; 89: 37-42

138640 Sriprasad, S., Thompson, P. M. Are men with lower urinary tract symptoms at increased risk of prostate cancer? A systematic review and critique of the available evidence. BJU Int. 2001 Jan; 87: 127-8

116890 Srivastava, M., Bubendorf, L., Nolan, L., Glasman, M., Leighton, X., Miller, G., Fehrle, W., Raffeld, M., Eidelman, O., Kallioniemi, O. P., Srivastava, S., Pollard, H. B. ANX7 as a bio-marker in prostate and breast cancer progression. Dis Markers. 2001; 17: 115-20

101050 St Sauver, J. L., Jacobson, D. J., Girman, C. J., Lieber, M. M., McGree, M. E., Jacobsen, S. J. Tracking of longitudinal changes in measures of benign prostatic hyperplasia in a population based cohort. J Urol. 2006 Mar; 175: 1018-22; discussion 1022

150930 St Sauver, J. L., Jacobson, D. J., McGree, M. E., Lieber, M. M. and Jacobsen, S. J. Protective association between nonsteroidal antiinflammatory drug use and measures of benign prostatic hyperplasia. Am J Epidemiol. 2006; 164: 760-8

166010 St Sauver, J.L., Jacobson, D.J., Girman, C.J., McGree, M.E., Lieber, M.M., Jacobsen, S.J. Correlations between longitudinal changes in transitional zone volume and measures of benign prostatic hyperplasia in a population-based cohort.. Eur Urol. 2006 Jul; 50: 105-11

152410 Stabler, S. P., Allen, R. H., Dolce, E. T. and Johnson, M. A. Elevated serum S-adenosylhomocysteine in cobalamin-deficient elderly and response to treatment. Am J Clin Nutr. 2006; 84: 1422-9

104730 Stachon, A., Schluter, T., Junker, K., Knopf, H. J., Neuser, R. D., Krieg, M. The secretion of endothelin-1 by microvascular endothelial cells from human benign prostatic hyperplasia is inhibited by vascular endothelial growth factor. Growth Factors. 2004 Dec; 22: 281-9

117280 Stachon, A., Schluter, T., Koller, M., Weisser, H., Krieg, M. Primary culture of microvascular endothelial cells from human benign prostatic hyperplasia. Prostate. 2001 Aug 1; 48: 156-64

102600 Stage, A. C., Hairston, J. C. Symptom scores: mumbo jumbo or meaningful measures?. Curr Urol Rep. 2005 Jul; 6: 251-6

128720 Stahlschmidt, J., Varley, C. L., Toogood, G., Selby, P. J., Southgate, J. Urothelial differentiation in chronically urine-deprived bladders of patients with end-stage renal disease. Kidney Int. 2005 Sep; 68: 1032-40

154450 Staios, D., Andrews, H. O., Shaik, T. and Buchholz, N. N. Quality of life after percutaneous nephrolithotomy for caliceal diverticulum and secluded lower-pole renal stones. J Endourol. 2007; 21: 515-9

102550 Stamatiou, K., Alevizos, A., Agapitos, E., Sofras, F. Incidence of impalpable carcinoma of the prostate and of non-malignant and precarcinomatous lesions in Greek male population: an autopsy study. Prostate. 2006 Sep 1; 66: 1319-28

150080 Stamatiou, K., Alevizos, A., Natzar, M., Mihas, C., Mariolis, A., Michalodimitrakis, E. and Sofras, F. Associations among benign prostate hypertrophy, atypical adenomatous hyperplasia and latent carcinoma of the prostate. Asian J Androl. 2007; 9: 229-33

109160 Stamey, T. A., Caldwell, M. C., Fan, Z., Zhang, Z., McNeal, J. E., Nolley, R., Chen, Z., Mahadevappa, M., Warrington, J. A. Genetic profiling of Gleason grade 4/5 prostate cancer: which is the best prostatic control tissue?. J Urol. 2003 Dec; 170: 2263-8

105980 Stamey, T. A., Caldwell, M., McNeal, J. E., Nolley, R., Hemenez, M., Downs, J. The prostate specific antigen era in the United States is over for prostate cancer: what happened in the last 20 years?. J Urol. 2004 Oct; 172: 1297-301

116610 Stamey, T. A., Johnstone, I. M., McNeal, J. E., Lu, A. Y., Yemoto, C. M. Preoperative serum prostate specific antigen levels between 2 and 22 ng./ml. correlate poorly with post-radical prostatectomy cancer morphology: prostate specific antigen cure rates appear constant between 2 and 9 ng./ml. J Urol. 2002 Jan; 167: 103-11

116770 Stamey, T. A., Warrington, J. A., Caldwell, M. C., Chen, Z., Fan, Z., Mahadevappa, M., McNeal, J. E., Nolley, R., Zhang, Z. Molecular genetic profiling of Gleason grade 4/5 prostate cancers compared to benign prostatic hyperplasia. J Urol. 2001 Dec; 166: 2171-7

119110 Stanzione, R., Picascia, A., Chieffi, P., Imbimbo, C., Palmieri, A., Mirone, V., Staibano, S., Franco, R., De Rosa, G., Schlessinger, J., Tramontano, D. Variations of proline-rich kinase Pyk2 expression correlate with prostate cancer progression. Lab Invest. 2001 Jan; 81: 51-9

137830 Stapleton, A. M., Cuncins-Hearn, A., Pinnock, C. Attitudes to evidence-based practice in urology: results of a survey. ANZ J Surg. 2001 May; 71: 297-300

111150 Stattin, P., Hakama, M. Correspondence re: B-L. Adam et al., Serum protein fingerprinting coupled with a pattern-matching algorithm distinguishes prostate cancer from benign prostate hyperplasia and healthy men. Cancer Res., 62: 3609-3614, 2002. Cancer Res. 2003 May 15; 63: 2701; author reply 2701-2

117770 Stattin, P., Kaaks, R., Riboli, E., Ferrari, P., Dechaud, H., Hallmans, G. Circulating insulin-like growth factor-I and benign prostatic hyperplasia--a prospective study. Scand J Urol Nephrol. 2001 Apr; 35: 122-6

132720 Stav, K., Cooper, A., Zisman, A., Leibovici, D., Lindner, A., Siegel, Y. I. Retrograde intrarenal lithotripsy outcome after failure of shock wave lithotripsy. J Urol. 2003 Dec; 170: 2198-201

106220 Stav, K., Leibovici, D., Goren, E., Livshitz, A., Siegel, Y. I., Lindner, A., Zisman, A. Adverse effects of cystoscopy and its impact on patients' quality of life and sexual performance. Isr Med Assoc J. 2004 Aug; 6: 474-8

126150 Steadman, B., Ellsworth, P. To circ or not to circ: indications, risks, and alternatives to circumcision in the pediatric population with phimosis. Urol Nurs. 2006 Jun; 26: 181-94

107430 Stearns, M. E., Wang, M., Hu, Y., Kim, G., Garcia, F. U. Expression of a flt-4 (VEGFR3) splicing variant in primary human prostate tumors. VEGF D and flt-4t(Delta773-1081) overexpression is diagnostic for sentinel lymph node metastasis. Lab Invest. 2004 Jun; 84: 785-95

165190 Steele, A. C., Kohli, N., Mallipeddi, P., Karram, M. Pharmacologic causes of female incontinence. Int Urogynecol J Pelvic Floor Dysfunct. 1999; 10: 106-10

139450 Steele, G. S., Sullivan, M. P., Sleep, D. J., Yalla, S. V. Combination of symptom score, flow rate and prostate volume for predicting bladder outflow obstruction in men with lower urinary tract symptoms. J Urol. 2000 Aug; 164: 344-8

110170 Steenkamp, V. Phytomedicines for the prostate. Fitoterapia. 2003 Sep; 74: 545-52

100530 Steenkamp, V., Gouws, M. C., Gulumian, M., Elgorashi, E. E., van Staden, J. Studies on antibacterial, anti-inflammatory and antioxidant activity of herbal remedies used in the treatment of benign prostatic hyperplasia and prostatitis. J Ethnopharmacol. 2006 Jan 3; 103: 71-5

116450 Steers, W. D. 5alpha-reductase activity in the prostate. Urology. 2001 Dec; 58: 17-24; discussion 24

104030 Steers, W. D., Kirby, R. S. Clinical ease of using doxazosin in BPH patients with and without hypertension. Prostate Cancer Prostatic Dis. 2005; 8: 152-7

107420 Stefanou, D., Batistatou, A., Kamina, S., Arkoumani, E., Papachristou, D. J., Agnantis, N. J. Expression of vascular endothelial growth factor (VEGF) and association with microvessel density in benign prostatic hyperplasia and prostate cancer. In Vivo. 2004 Mar-Apr; 18: 155-60

111040 Steiner, G. E., Newman, M. E., Paikl, D., Stix, U., Memaran-Dagda, N., Lee, C., Marberger, M. J. Expression and function of pro-inflammatory interleukin IL-17 and IL-17 receptor in normal, benign hyperplastic, and malignant prostate. Prostate. 2003 Aug 1; 56: 171-82

110270 Steiner, G. E., Stix, U., Handisurya, A., Willheim, M., Haitel, A., Reithmayr, F., Paikl, D., Ecker, R. C., Hrachowitz, K., Kramer, G., Lee, C., Marberger, M. Cytokine expression pattern in benign prostatic hyperplasia infiltrating T cells and impact of lymphocytic infiltration on cytokine mRNA profile in prostatic tissue. Lab Invest. 2003 Aug; 83: 1131-46

111110 Steiner, M. S., Raghow, S. Antiestrogens and selective estrogen receptor modulators reduce prostate cancer risk. World J Urol. 2003 May; 21: 31-6

136010 Stenzl, A., Bartsch, G., Rogatsch, H. The remnant urothelium after reconstructive bladder surgery. Eur Urol. 2002 Feb; 41: 124-31

133360 Stenzl, A., Holtl, L. Orthotopic bladder reconstruction in women--what we have learned over the last decade. Crit Rev Oncol Hematol. 2003 Aug; 47: 147-54

120010 Stephan, C., Jung, K., Lein, M., Sinha, P., Schnorr, D., Loening, S. A. Molecular forms of prostate-specific antigen and human kallikrein 2 as promising tools for early diagnosis of prostate cancer. Cancer Epidemiol Biomarkers Prev. 2000 Nov; 9: 1133-47

101740 Stephan, C., Jung, K., Soosaipillai, A., Yousef, G. M., Cammann, H., Meyer, H., Xu, C., Diamandis, E. P. Clinical utility of human glandular kallikrein 2 within a neural network for prostate cancer detection. BJU Int. 2005 Sep; 96: 521-7

102440 Stephan, C., Stroebel, G., Heinau, M., Lenz, A., Roemer, A., Lein, M., Schnorr, D., Loening, S. A., Jung, K. The ratio of prostate-specific antigen (PSA) to prostate volume (PSA density) as a parameter to improve the detection of prostate carcinoma in PSA values in the range of < 4 ng/mL. Cancer. 2005 Sep 1; 104: 993-1003

112080 Stephan, C., Wesseling, S., Schink, T., Jung, K. Comparison of eight computer programs for receiver-operating characteristic analysis. Clin Chem. 2003 Mar; 49: 433-9

108930 Stephan, C., Yousef, G. M., Scorilas, A., Jung, K., Jung, M., Kristiansen, G., Hauptmann, S., Kishi, T., Nakamura, T., Loening, S. A., Diamandis, E. P. Hepsin is highly over expressed in and a new candidate for a prognostic indicator in prostate cancer. J Urol. 2004 Jan; 171: 187-91

105870 Steuber, T., Niemela, P., Haese, A., Pettersson, K., Erbersdobler, A., Felix Chun, K. H., Graefen, M., Kattan, M. W., Huland, H., Lilja, H. Association of free-prostate specific antigen subfractions and human glandular kallikrein 2 with volume of benign and malignant prostatic tissue. Prostate. 2005 Apr 1; 63: 13-8

113310 Steuber, T., Nurmikko, P., Haese, A., Pettersson, K., Graefen, M., Hammerer, P., Huland, H., Lilja, H. Discrimination of benign from malignant prostatic disease by selective measurements of single chain, intact free prostate specific antigen. J Urol. 2002 Nov; 168: 1917-22

139060 Stevenson, D. K., Verter, J., Fanaroff, A. A., Oh, W., Ehrenkranz, R. A., Shankaran, S., Donovan, E. F., Wright, L. L., Lemons, J. A., Tyson, J. E., Korones, S. B., Bauer, C. R., Stoll, B. J., Papile, L. A. Sex differences in outcomes of very low birthweight infants: the newborn male disadvantage. Arch Dis Child Fetal Neonatal Ed. 2000 Nov; 83: F182-5

165080 Stevenson, K. R., Cholhan, H. J., Hartmann, D. M., Buchsbaum, G. M., Guzick, D. S. Lower urinary tract injury during the Burch procedure: is there a role for routine cystoscopy?. Am J Obstet Gynecol. 1999 Jul; 181: 35-8

129650 Stewart, G. D., Bariol, S. V., Grigor, K. M., Tolley, D. A., McNeill, S. A. A comparison of the pathology of transitional cell carcinoma of the bladder and upper urinary tract. BJU Int. 2005 Apr; 95: 791-3

109820 Stewart, K. M. The African cherry (Prunus africana): can lessons be learned from an over-exploited medicinal tree?. J Ethnopharmacol. 2003 Nov; 89: 13-Mar

164120 Stobbe, I., van der Meer-Prins, E., Smits, J. M., Doxiadis, I. I., Claas, F. H. In vitro reactivity of allospecific cytotoxic T lymphocytes does not explain the taboo phenomenon. Transpl Immunol. 1999 Dec; 7: 215-20

135730 Stoeber, K., Swinn, R., Prevost, A. T., de Clive-Lowe, P., Halsall, I., Dilworth, S. M., Marr, J., Turner, W. H., Bullock, N., Doble, A., Hales, C. N., Williams, G. H. Diagnosis of genito-urinary tract cancer by detection of minichromosome maintenance 5 protein in urine sediments. J Natl Cancer Inst. 2002 Jul 17; 94: 1071-9

104980 Stoehr, R., Zietz, S., Burger, M., Filbeck, T., Denzinger, S., Obermann, E. C., Hammerschmied, C., Wieland, W. F., Knuechel, R., Hartmann, A. Deletions of chromosomes 9 and 8p in histologically normal urothelium of patients with bladder cancer. Eur Urol. 2005 Jan; 47: 58-63

118610 Stoevelaar, H. J., McDonnell, J. Changing therapeutic regimens in benign prostatic hyperplasia. Clinical and economic considerations. Pharmacoeconomics. 2001; 19: 131-53

118710 Stoevelaar, H. J., McDonnell, J., Bosch, J. L., Kahan, J. P. Lower urinary tract symptoms suggestive of benign prostatic obstruction: how can clinical expertise contribute to rational management?. Eur Urol. 2001; 39 Suppl 3: 13-9

135380 Stolzenburg, J. U., Schwalenberg, T., Do, M., Dorschner, W., Salomon, F. V., Jurina, K., Neuhaus, J. Is the male dog comparable to human? A histological study of the muscle systems of the lower urinary tract. Anat Histol Embryol. 2002 Aug; 31: 198-205

121870 Stone, N. N., Ratnow, E. R., Stock, R. G. Prior transurethral resection does not increase morbidity following real-time ultrasound-guided prostate seed implantation. Tech Urol. 2000 Jun; 6: 123-7

132730 Stothers, L., Laher, I., Christ, G. T. A review of the L-arginine - nitric oxide - guanylate cyclase pathway as a mediator of lower urinary tract physiology and symptoms. Can J Urol. 2003 Oct; 10: 1971-80

102710 Stovsky, M. D., Griffiths, R. I., Duff, S. B. A clinical outcomes and cost analysis comparing photoselective vaporization of the prostate to alternative minimally invasive therapies and transurethral prostate resection for the treatment of benign prostatic hyperplasia. J Urol. 2006 Oct; 176: 1500-6

153930 Stranne, J., Hugosson, J. and Lodding, P. Inguinal hernia is a common complication in lower midline incision surgery. Hernia. 2007; 11: 247-52

155390 Strasser, H., Marksteiner, R., Margreiter, E., Mitterberger, M., Pinggera, G. M., Frauscher, F., Fussenegger, M., Kofler, K. and Bartsch, G. Transurethral ultrasonography-guided injection of adult autologous stem cells versus transurethral endoscopic injection of collagen in treatment of urinary incontinence. World J Urol. 2007; 25: 385-92

116680 Straub, B., Muller, M., Krause, H., Schrader, M., Goessl, C., Heicappell, R., Miller, K. Detection of prostate-specific antigen RNA before and after radical retropubic prostatectomy and transurethral resection of the prostate using 'Light-Cycler'-based quantitative real-time polymerase chain reaction. Urology. 2001 Nov; 58: 815-20

117330 Straub, B., Muller, M., Krause, H., Schrader, M., Goessl, C., Heicappell, R., Miller, K. Increased incidence of luteinizing hormone-releasing hormone receptor gene messenger RNA expression in hormone-refractory human prostate cancers. Clin Cancer Res. 2001 Aug; 7: 2340-3

110140 Straub, B., Muller, M., Krause, H., Schrader, M., Miller, K. Quantitative real-time rt-PCR for detection of circulating prostate-specific antigen mRNA using sequence-specific oligonucleotide hybridization probes in prostate cancer patients. Oncology. 2003; 65 Suppl 1: 7-Dec

110670 Straub, B., Muller, M., Krause, H., Schrader, M., Miller, K. Real-time quantitative reverse transcriptase-polymerase chain reaction for luteinizing hormone-releasing hormone receptor gene mRNA expression in human prostate cancer. Urology. 2003 Jul; 62: 172-6

131860 Strauss, E., Gomes de Sa Ribeiro Mde, F. Bacterial infections associated with hepatic encephalopathy: prevalence and outcome. Ann Hepatol. 2003 Jan-Mar; 2: 41-5

164180 Strauss, S., Dushnitsky, T., Peer, A., Manor, H., Libson, E., Lebensart, P. D. Sonographic features of horseshoe kidney: review of 34 patients. J Ultrasound Med. 2000 Jan; 19: 27-31

104680 Streiber, M., Picard, F., Scherer, C., Seidel, S. B., Hartmann, R. W. Methyl esters of N-(dicyclohexyl)acetyl-piperidine-4-(benzylidene-4-carboxylic acids) as drugs and prodrugs: a new strategy for dual inhibition of 5 alpha-reductase type 1 and type 2. J Pharm Sci. 2005 Mar; 94: 473-80

125730 Stroberg, P., Boman, H., Gellerstedt, M., Hedelin, H. Relationships between lower urinary tract symptoms, the bother they induce and erectile dysfunction. Scand J Urol Nephrol. 2006; 40: 307-12

106480 Strong, K. M. African plum and benign prostatic hypertrophy. J Herb Pharmacother. 2004; 4: 41-6

137440 Stypinski, D., McQuarrie, S. A., Wiebe, L. I., Tam, Y. K., Mercer, J. R., McEwan, A. J. Dosimetry estimations for 123I-IAZA in healthy volunteers. J Nucl Med. 2001 Sep; 42: 1418-23

109240 Sugaya, K., Kadekawa, K., Ikehara, A., Nakayama, T., Gakiya, M., Nashiro, F., Goya, M., Hatano, T., Ogawa, Y. Influence of hypertension on lower urinary tract symptoms in benign prostatic hyperplasia. Int J Urol. 2003 Nov; 10: 569-74; discussion 575

137950 Suh, C. H., Jeong, Y. S., Park, H. C., Lee, C. H., Lee, J., Song, C. H., Lee, W. K., Park, Y. B., Song, J., Lee, S. K. Risk factors for infection and role of C-reactive protein in Korean patients with systemic lupus erythematosus. Clin Exp Rheumatol. 2001 Mar-Apr; 19: 191-4

139330 Sukthankar, S., Watson, A. R. Unilateral multicystic dysplastic kidney disease: defining the natural history. Anglia Paediatric Nephrourology Group. Acta Paediatr. 2000 Jul; 89: 811-3

115940 Sullivan, M. J., Geller, J. The effectiveness of reducing the daily dose of finasteride in men with benign prostatic hyperplasia. BMC Urol. 2002; 2: 2

103610 Sulser, T., Reich, O., Wyler, S., Ruszat, R., Casella, R., Hofstetter, A., Bachmann, A. Photoselective KTP laser vaporization of the prostate: first experiences with 65 procedures. J Endourol. 2004 Dec; 18: 976-81

161940 Sumi, S., Arai, K., Kitahara, S., Yoshida, K. Serial lectin affinity chromatography demonstrates altered asparagine-linked sugar-chain structures of prostate-specific antigen in human prostate carcinoma. J Chromatogr B Biomed Sci Appl. 1999 Apr 30; 727: 9-14

121840 Sumi, S., Arai, K., Kitahara, S., Yoshida, K. I. Preliminary report of the clinical performance of a new urinary bladder cancer antigen test: comparison to voided urine cytology in the detection of transitional cell carcinoma of the bladder. Clin Chim Acta. 2000 Jun; 296: 111-20

103540 Sun, W. H., Man, C. W., Ngai, R. L., Wong, B. T., Yiu, T. F. Surgical intervention for benign prostatic hyperplasia in Hong Kong. Hong Kong Med J. 2005 Apr; 11: 79-84

114140 Sun, Y., MaLossi, J., Jacobs, S. C., Chai, T. C. Effect of doxazosin on stretch-activated adenosine triphosphate release in bladder urothelial cells from patients with benign prostatic hyperplasia. Urology. 2002 Aug; 60: 351-6

107180 Sung, D. J., Cho, S. B., Kim, Y. H., Oh, Y. W., Lee, N. J., Kim, J. H., Chung, K. B., Moon du, G. Comparison of prostate-specific antigen adjusted for transition zone volume versus prostate-specific antigen density in predicting prostate cancer by transrectal ultrasonography. J Ultrasound Med. 2004 May; 23: 615-22

150550 Sung, D. J., Kim, Y. H., Cho, S. B., Oh, Y. W., Lee, N. J., Kim, J. H., Chung, K. B., Moon du, G. and Kim, J. J. Obliterative urethral stricture: MR urethrography versus conventional retrograde urethrography with voiding cystourethrography. Radiology. 2006; 240: 842-8

101030 Sung, J. C., Curtis, L. H., Schulman, K. A., Albala, D. M. Geographic variations in the use of medical and surgical therapies for benign prostatic hyperplasia. J Urol. 2006 Mar; 175: 1023-7

128890 Suri, A., Srivastava, A., Singh, K. J., Dubey, D., Mandhani, A., Kapoor, R., Kumar, A. Endoscopic incision for functional bladder neck obstruction in men: long-term outcome. Urology. 2005 Aug; 66: 323-6

139010 Sutaria, P. M., Staskin, D. R. Hydronephrosis and renal deterioration in the elderly due to abnormalities of the lower urinary tract and ureterovesical junction. Int Urol Nephrol. 2000; 32: 119-26

128390 Sutcliffe, S., Giovannucci, E., De Marzo, A. M., Willett, W. C., Platz, E. A. Sexually transmitted infections, prostatitis, ejaculation frequency, and the odds of lower urinary tract symptoms. Am J Epidemiol. 2005 Nov 1; 162: 898-906

109280 Sutinen, E., Nurmi, M., Roivainen, A., Varpula, M., Tolvanen, T., Lehikoinen, P., Minn, H. Kinetics of. Eur J Nucl Med Mol Imaging. 2004 Mar; 31: 317-24

160820 Sutkowski, D. M., Goode, R. L., Baniel, J., Teater, C., Cohen, P., McNulty, A. M., Hsiung, H. M., Becker, G. W., Neubauer, B. L. Growth regulation of prostatic stromal cells by prostate-specific antigen. J Natl Cancer Inst. 1999 Oct 6; 91: 1663-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

102350 Sutton, M. T., Yingling, M., Vyas, A., Atiemo, H., Borkowski, A., Jacobs, S. C., Kyprianou, N. Finasteride targets prostate vascularity by inducing apoptosis and inhibiting cell adhesion of benign and malignant prostate cells. Prostate. 2006 Aug 1; 66: 1194-202

108940 Suzuki, H., Akakura, K., Igarashi, T., Ueda, T., Ito, H., Watanabe, M., Nomura, F., Ochiai, T., Shimada, H. Clinical usefulness of serum antip53 antibodies for prostate cancer detection: a comparative study with prostate specific antigen parameters. J Urol. 2004 Jan; 171: 182-6

123200 Suzuki, H., Yano, M., Awa, Y., Nakatsu, H., Egoshi, K., Mikami, K., Ota, S., Okano, T., Hamano, S., Ohki, T., Furuya, Y., Ichikawa, T. Clinical impact of tamsulosin on generic and symptom-specific quality of life for benign prostatic hyperplasia patients: using international prostate symptom score and Rand Medical Outcomes Study 36-item Health Survey. Int J Urol. 2006 Sep; 13: 1202-6

115560 Suzuki, K., Matsui, H., Hasumi, M., Ono, Y., Nakazato, H., Koike, H., Ito, K., Fukabori, Y., Kurokawa, K., Yamanaka, H. Gene expression profiles in human BPH: utilization of laser-capture microdissection and quantitative real-time PCR. Anticancer Res. 2001 Nov-Dec; 21: 3861-4

108210 Suzuki, K., Nakazato, H., Matsui, H., Koike, H., Okugi, H., Ohtake, N., Takei, T., Nakata, S., Hasumi, M., Yamanaka, H. Association of the genetic polymorphism of the CYP19 intron 4[TTTA]n repeat with familial prostate cancer risk in a Japanese population. Anticancer Res. 2003 Nov-Dec; 23: 4941-6

101010 Suzuki, K., Obara, K., Kobayashi, K., Yamana, K., Bilim, V., Itoi, T., Takahashi, K. Role of connective tissue growth factor in fibronectin synthesis in cultured human prostate stromal cells. Urology. 2006 Mar; 67: 647-53

109850 Suzuki, K., Sugaya, Y., Tokue, A. Giant stercoral stone and catheterization difficulty. Int J Urol. 2003 Oct; 10: 554-5

164840 Suzuki, S., Otsubo, Y., Sawa, R., Yoneyama, Y., Araki, T. Prediction of oligohydramnios in prolonged pregnancy. Gynecol Obstet Invest. 1999; 48: 85-8

115510 Suzuki, S., Platz, E. A., Kawachi, I., Willett, W. C., Giovannucci, E. Intakes of energy and macronutrients and the risk of benign prostatic hyperplasia. Am J Clin Nutr. 2002 Apr; 75: 689-97

117920 Swanson, M. G., Vigneron, D. B., Tran, T. K., Sailasuta, N., Hurd, R. E., Kurhanewicz, J. Single-voxel oversampled J-resolved spectroscopy of in vivo human prostate tissue. Magn Reson Med. 2001 Jun; 45: 973-80

137630 Sweeney, B., Cascio, S., Velayudham, M., Puri, P. Reflux nephropathy in infancy: a comparison of infants presenting with and without urinary tract infection. J Urol. 2001 Aug; 166: 648-50

156640 Sweileh, W. M. Potential adverse effects of a low-dose aspirin-diuretic combination on kidney function. Int J Clin Pharmacol Ther. 2007; 45: 601-5

151650 Swerdloff, R. Testosterone levels in benign prostatic hyperplasia: sexual function and response to therapy with dutasteride. Nat Clin Pract Urol. 2006; 3: 528-9

110690 Swindle, P., McCredie, S., Russell, P., Himmelreich, U., Khadra, M., Lean, C., Mountford, C. Pathologic characterization of human prostate tissue with proton MR spectroscopy. Radiology. 2003 Jul; 228: 144-51

132060 Swinn, M. J., Walker, M. M., Harbin, L. J., Adshead, J. M., Witherow, R. O., Vale, J. A., Patel, A. Biopsy of the red patch at cystoscopy: is it worthwhile?. Eur Urol. 2004 Apr; 45: 471-4; discussion 474

119170 Syed, A. H., Stewart, L. H., Hargreave, T. B. Day-case local anaesthetic radiofrequency thermal ablation of benign prostatic hyperplasia: a four-year follow-up. Scand J Urol Nephrol. 2000 Oct; 34: 309-12

151940 Szabo, L., Barkai, L. and Lombay, B. Urinary flow disturbance as an early sign of autonomic neuropathy in diabetic children and adolescents. Neurourol Urodyn. 2007; 26: 218-21

132580 Szabo, L., Lombay, B., Borbas, E., Bajusz, I. Videourodynamics in the diagnosis of urinary tract abnormalities in a single center. Pediatr Nephrol. 2004 Mar; 19: 326-31

153680 Taha, M. A., Shokeir, A. A., Osman, H. G., Abd El-Aziz Ael, A. and Farahat, S. E. Pelvi-ureteric junction obstruction in children: the role of urinary transforming growth factor-beta and epidermal growth factor. BJU Int. 2007; 99: 899-903

154480 Taherimahmoudi, M., Mehrsai, A., Nikoobakht, M., Saraji, A., Emamzadeh, A. and Pourmand, G. Does donor nephron mass have any impact on graft survival?. Transplant Proc. 2007; 39: 914-6

109900 Tahir, S. A., Ren, C., Timme, T. L., Gdor, Y., Hoogeveen, R., Morrisett, J. D., Frolov, A., Ayala, G., Wheeler, T. M., Thompson, T. C. Development of an immunoassay for serum caveolin-1: a novel biomarker for prostate cancer. Clin Cancer Res. 2003 Sep 1; 9: 3653-9

108180 Tahmatzopoulos, A., Kyprianou, N. Apoptotic impact of alpha1-blockers on prostate cancer growth: a myth or an inviting reality?. Prostate. 2004 Apr 1; 59: 91-100

110130 Takahashi, H., Lu, W., Watanabe, M., Katoh, T., Furusato, M., Tsukino, H., Nakao, H., Sudo, A., Suzuki, H., Akakura, K., Ikemoto, I., Asano, K., Ito, T., Wakui, S., Muto, T., Hano, H. Ser217Leu polymorphism of the HPC2/ELAC2 gene associated with prostatic cancer risk in Japanese men. Int J Cancer. 2003 Nov 1; 107: 224-8

154050 Takahashi, M., Otsubo, S., Uchida, K., Yumura, W. and Nitta, K. Association between serum adiponectin levels and arteriolosclerosis in IgA nephropathy patients. Intern Med. 2007; 46: 453-9

120410 Takahashi, M., Taniguchi, T., Kanamaru, H., Okada, K., Muramatsu, I. Pharmacological characterization of. Life Sci. 2000 Oct 6; 67: 2443-51

164160 Takahashi, S., Homma, Y., Fujishiro, T., Hosaka, Y., Kitamura, T., Kawabe, K. Electromyographic study of the striated urethral sphincter in type 3 stress incontinence: evidence of myogenic-dominant damages. Urology. 2000 Dec 20; 56: 946-50

112620 Takahashi, S., Suzuki, S., Inaguma, S., Ikeda, Y., Cho, Y. M., Hayashi, N., Inoue, T., Sugimura, Y., Nishiyama, N., Fujita, T., Chao, J., Ushijima, T., Shirai, T. Down-regulated expression of prostasin in high-grade or hormone-refractory human prostate cancers. Prostate. 2003 Feb 15; 54: 187-93

129060 Takahashi, T., Miura, H., Matsu-ura, Y., Iwana, S., Maruyama, R., Harada, T. Urine cytology of localized primary amyloidosis of the ureter: a case report. Acta Cytol. 2005 May-Jun; 49: 319-22

102370 Takase, Y., Levesque, M. H., Luu-The, V., El-Alfy, M., Labrie, F., Pelletier, G. Expression of enzymes involved in estrogen metabolism in human prostate. J Histochem Cytochem. 2006 Aug; 54: 911-21

152620 Takase, Y., Luu-The, V., Poisson-Pare, D., Labrie, F. and Pelletier, G. Expression of sulfotransferase 1E1 in human prostate as studied by in situ hybridization and immunocytochemistry. Prostate. 2007; 67: 405-9

165890 Takashi, M., Katsuno, S., Sakata, T., Ohshima, S., Kato, K. Different concentrations of two small stress proteins, alphaB crystallin and HSP27 in human urological tumor tissues. Urol Res. 1998; 26: 395-9

108990 Takeda, M., Araki, I., Kamiyama, M., Takihana, Y., Komuro, M., Furuya, Y. Diagnosis and treatment of voiding symptoms. Urology. 2003 Nov; 62: 11-9

161680 Takeda, M., Hatano, A., Arai, K., Obara, K., Tsutsui, T., Takahashi, K. alpha1- and alpha2-adrenoceptors in BPH. Eur Urol. 1999; 36 Suppl 1: 31-4; discussion 65

155660 Talas, H., Kilic, O., Tangal, S. and Safak, M. Does lower-pole caliceal anatomy predict stone clearance after shock wave lithotripsy for primary lower-pole nephrolithiasis?. Urol Int. 2007; 79: 129-32

116870 Talic, R. F. Erectile function following high-energy thick loop prostatectomy. Scand J Urol Nephrol. 2001 Sep; 35: 300-4

140590 Talic, R. F., El Tiraifi, A., El Faqih, S. R., Hassan, S. H., Attassi, R. A., Abdel-Halim, R. E. Prospective randomized study of transurethral vaporization resection of the prostate using the thick loop and standard transurethral prostatectomy. Urology. 2000 Jun; 55: 886-90; discussion 890-1

119000 Talic, R. F., El-Tiraifi, A. M., Altaf, S., Hargreave, T. B. Changes of serum prostate-specific antigen following high energy thick loop prostatectomy. Int Urol Nephrol. 2000; 32: 271-4

107730 Talpur, A. N., Hasan, A. T., Sheikh, M. A. Intraprostatic tissue infection in catheterised patients in comparison to controls. J Pak Med Assoc. 2004 Jan; 54: 20-4

118640 Tamada, H., Kitazawa, R., Gohji, K., Kitazawa, S. Epigenetic regulation of human bone morphogenetic protein 6 gene expression in prostate cancer. J Bone Miner Res. 2001 Mar; 16: 487-96

135350 Tamboli, P., Mohsin, S. K., Hailemariam, S., Amin, M. B. Colonic adenocarcinoma metastatic to the urinary tract versus primary tumors of the urinary tract with glandular differentiation: a report of 7 cases and investigation using a limited immunohistochemical panel. Arch Pathol Lab Med. 2002 Sep; 126: 1057-63

136520 Tambyah, P. A., Knasinski, V., Maki, D. G. The direct costs of nosocomial catheter-associated urinary tract infection in the era of managed care. Infect Control Hosp Epidemiol. 2002 Jan; 23: 27-31

109400 Tan, A. H., Gilling, P. J. Free-beam and contact laser soft-tissue ablation in urology. J Endourol. 2003 Oct; 17: 587-93

114410 Tan, A. H., Gilling, P. J. Holmium laser prostatectomy: current techniques. Urology. 2002 Jul; 60: 152-6

104930 Tan, A. H., Gilling, P. J. Lasers in the treatment of benign prostatic hyperplasia: an update. Curr Opin Urol. 2005 Jan; 15: 55-8

109490 Tan, A. H., Gilling, P. J., Kennett, K. M., Fletcher, H., Fraundorfer, M. R. Long-term results of high-power holmium laser vaporization (ablation) of the prostate. BJU Int. 2003 Nov; 92: 707-9

109920 Tan, A. H., Gilling, P. J., Kennett, K. M., Frampton, C., Westenberg, A. M., Fraundorfer, M. R. A randomized trial comparing holmium laser enucleation of the prostate with transurethral resection of the prostate for the treatment of bladder outlet obstruction secondary to benign prostatic hyperplasia in large glands (40 to 200 grams). J Urol. 2003 Oct; 170: 1270-4

164890 Tan, H. L. Laparoscopic Anderson-Hynes dismembered pyeloplasty in children. J Urol. 1999 Sep; 162: 1045-7; discussion 1048

135430 Tan, J. K., Png, D. J., Liew, L. C., Li, M. K., Wong, M. L. Prevalence of prostatitis-like symptoms in Singapore: a population-based study. Singapore Med J. 2002 Apr; 43: 189-93

115490 Tan, M. O., Diker, Y., Uygur, M. C., Karabiyik, I., Erol, D. Are clinical characteristics of familial benign prostatic hyperplasia different than in sporadic cases?. Urol Int. 2002; 68: 178-82

107130 Tan, M. O., Karabiyik, I., Uygur, M. C., Diker, Y., Erol, D. Serum concentrations of sex hormones in men with severe lower urinary tract symptoms and benign prostatic hyperplasia. Int Urol Nephrol. 2003; 35: 357-63

133450 Tan, M. O., Kordan, Y., Deniz, N., Erdem, O., Sen, I., Bozkirli, I. Papillary adenoma of the prostatic urethra: report of two cases. Int J Urol. 2003 Aug; 10: 459-62

109540 Tan, M. O., Tuncel, A., Deniz, N., Uzcum, N., Dursun, A., Bozkirli, I. Case report: Incidental primary transitional cell carcinoma of the prostate treated with transurethral prostatectomy only. Tumori. 2003 Jul-Aug; 89: 440-2

112410 Tan, M. O., Yilmaz, C., Uygur, M. C., Duyur, B., Erol, D. Effects of combined androgen blockade on bone metabolism and density in men with locally advanced prostate cancer. Int Urol Nephrol. 2002; 34: 75-9

132490 Tan, T. L. Urinary incontinence in older persons: a simple approach to a complex problem. Ann Acad Med Singapore. 2003 Nov; 32: 731-9

122200 Tanaka, M., Murakami, S., Suzuki, N., Shimazaki, J. Change in the ratio of free-to-total prostate-specific antigen during progression of advanced prostate cancer. Int J Urol. 2000 Mar; 7: 83-7

160330 Tanaka, M., Suzuki, Y., Takaoka, K., Murakami, S., Suzuki, N., Shimazaki, J. Immunohistochemical finding of alpha-1-antichymotrypsin in tissues of benign prostatic hyperplasia and prostate cancer. Int J Urol. 1999 Dec; 6: 600-6

126710 Tanaka, S. T., Stone, A. R., Kurzrock, E. A. Transverse myelitis in children: long-term urological outcomes. J Urol. 2006 May; 175: 1865-8; discussion 1868

122770 Tanaka, T., Isono, T., Yoshiki, T., Yuasa, T., Okada, Y. A novel form of prostate-specific antigen transcript produced by alternative splicing. Cancer Res. 2000 Jan 1; 60: 56-9

123130 Tanaka, Y., Masumori, N., Itoh, N., Furuya, S., Ogura, H., Tsukamoto, T. Is the short-term outcome of transurethral resection of the prostate affected by preoperative degree of bladder outlet obstruction, status of detrusor contractility or detrusor overactivity?. Int J Urol. 2006 Nov; 13: 1398-404

115080 Tanaka, Y., Masumori, N., Itoh, N., Sato, Y., Takahashi, A., Ogura, H., Furuya, S., Tsukamoto, T. Urodynamic effects of terazosin treatment for Japanese patients with symptomatic benign prostatic hyperplasia. J Urol. 2002 Jun; 167: 2492-5

103660 Tang, J., Li, X., Wang, N., Zhang, S., Lin, Q., Li, J., Shi, H. Correlation between hypoechoic nodules on ultrasonography and benign hyperplasia in the prostatic outer gland. J Ultrasound Med. 2005 Apr; 24: 483-8

155980 Tang, J., Yang, J. C., Zhang, Y., Liu, X., Zhang, L., Wang, Z., Li, J., Luo, Y., Xu, J. and Shi, H. Does benign prostatic hyperplasia originate from the peripheral zone of the prostate? A preliminary study. BJU Int. 2007; 100: 1091-6

165500 Tang, S., Chan, J., Tso, W. K., Ho, K. K., Chan, T. M., Lai, K. N. Helical computed tomography angiography in the evaluation of Chinese living renal donors. BJU Int. 1999 Mar; 83: 387-91

165880 Taniguchi, Y., Yorioka, N., Kumagai, J., Katsutani, M., Kuratsune, M., Amimoto, D., Yamakido, M. Interleukin-6 localization and the prognosis of IgA nephropathy. Nephron. 1999 Jan; 81: 94-8

102020 Tantivejkul, K., Loberg, R. D., Mawocha, S. C., Day, L. L., John, L. S., Pienta, B. A., Rubin, M. A., Pienta, K. J. PAR1-mediated NFkappaB activation promotes survival of prostate cancer cells through a Bcl-xL-dependent mechanism. J Cell Biochem. 2005 Oct 15; 96: 641-52

114300 Tantiwong, A., Nuanyong, C., Vanprapar, N., Swasdipala, P., Chittapraphai, S. Benign prostatic hyperplasia in elderly Thai men in an urban community: the prevalence, natural history and health related behavior. J Med Assoc Thai. 2002 Mar; 85: 356-60

107380 Taoka, R., Tsukuda, F., Ishikawa, M., Haba, R., Kakehi, Y. Association of prostatic inflammation with down-regulation of macrophage inhibitory cytokine-1 gene in symptomatic benign prostatic hyperplasia. J Urol. 2004 Jun; 171: 2330-5

127780 Tapre, P., Sen, S., Chacko, J., Karl, S. The use of refluxing ureter in the creation of a Mitrofanoff channel in children undergoing bladder augmentation: is a formal reimplantation necessary?. Pediatr Surg Int. 2006 Mar; 22: 250-4

125780 Tarcan, T., Onol, F. F., Ilker, Y., Alpay, H., Simsek, F., Ozek, M. The timing of primary neurosurgical repair significantly affects neurogenic bladder prognosis in children with myelomeningocele. J Urol. 2006 Sep; 176: 1161-5

111470 Tarle, M., Kraus, O., Trnski, D., Reljic, A., Ruzic, B., Katusic, J., Spajic, B., Kusic, Z. Early diagnosis of prostate cancer in finasteride treated BPH patients. Anticancer Res. 2003 Jan-Feb; 23: 693-6

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

100010 Tarter, T. H., Vaughan, E. D. , Jr. Inhibitors of 5alpha-reductase in the treatment of benign prostatic hyperplasia. Curr Pharm Des. 2006; 12: 775-83

135440 Taskinen, S., Valanne, L., Rintala, R. Effect of spinal cord abnormalities on the function of the lower urinary tract in patients with anorectal abnormalities. J Urol. 2002 Sep; 168: 1147-9

123310 Taub, D. A., Wei, J. T. The economics of benign prostatic hyperplasia and lower urinary tract symptoms in the United States. Curr Urol Rep. 2006 Jul; 7: 272-81

155450 Tausch, T. J., Cavalcanti, A. G., Soderdahl, D. W., Favorito, L., Rabelo, P. and Morey, A. F. Gunshot wound injuries of the prostate and posterior urethra: reconstructive armamentarium. J Urol. 2007; 178: 1346-8

156390 Tavichakorntrakool, R., Prasongwattana, V., Sriboonlue, P., Puapairoj, A., Wongkham, C., Wiangsimma, T., Khunkitti, W., Triamjangarun, S., Tanratanauijit, M., Chamsuwan, A., Khunkitti, W., Yenchitsomanus, P. T. and Thongboonkerd, V. K+, Na+, Mg2+, Ca2+, and water contents in human skeletal muscle: correlations among these monovalent and divalent cations and their alterations in K+ -depleted subjects. Transl Res. 2007; 150: 357-66

156950 Taweemonkongsap, T., Nualyong, C., Amornvesukit, T., Leewansangtong, S., Srinualnad, S., Chaiyaprasithi, B., Sujijantararat, P., Tantiwong, A. and Soontrapa, S. Outcomes of surgical treatment for upper urinary tract transitional cell carcinoma: comparison of retroperitoneoscopic and open nephroureterectomy. World J Surg Oncol. 2008; 6: 3

111740 Tayeb, M. T., Clark, C., Haites, N. E., Sharp, L., Murray, G. I., McLeod, H. L. CYP3A4 and VDR gene polymorphisms and the risk of prostate cancer in men with benign prostate hyperplasia. Br J Cancer. 2003 Mar 24; 88: 928-32

107580 Tayeb, M. T., Clark, C., Haites, N. E., Sharp, L., Murray, G. I., McLeod, H. L. Vitamin D receptor, HER-2 polymorphisms and risk of prostate cancer in men with benign prostate hyperplasia. Saudi Med J. 2004 Apr; 25: 447-51

106310 Tayeb, M. T., Clark, C., Murray, G. I., Sharp, L., Haites, N. E., McLeod, H. L. Length and somatic mosaicism of CAG and GGN repeats in the androgen receptor gene and the risk of prostate cancer in men with benign prostatic hyperplasia. Ann Saudi Med. 2004 Jan-Feb; 24: 21-6

115270 Tayeb, M. T., Clark, C., Sharp, L., Haites, N. E., Rooney, P. H., Murray, G. I., Payne, S. N., McLeod, H. L. CYP3A4 promoter variant is associated with prostate cancer risk in men with benign prostate hyperplasia. Oncol Rep. 2002 May-Jun; 9: 653-5

131120 Tayib, A. M., Al-Maghrabi, J. A., Mosli, H. A. Urethral polyp verumontanum. Saudi Med J. 2004 Aug; 25: 1115-6

125300 Taylor, B. C., Wilt, T. J., Fink, H. A., Lambert, L. C., Marshall, L. M., Hoffman, A. R., Beer, T. M., Bauer, D. C., Zmuda, J. M., Orwoll, E. S. Prevalence, severity, and health correlates of lower urinary tract symptoms among older men: the MrOS study. Urology. 2006 Oct; 68: 804-9

156630 Taylor, B. S., Pal, M., Yu, J., Laxman, B., Kalyana-Sundaram, S., Zhao, R., Menon, A., Wei, J. T., Nesvizhskii, A. I., Ghosh, D., Omenn, G. S., Lubman, D. M., Chinnaiyan, A. M. and Sreekumar, A. Humoral response profiling reveals pathways to prostate cancer progression. Mol Cell Proteomics. 2008; 7: 600-11

123050 Taylor, J. A., 3rd, Kuchel, G. A. Detrusor underactivity: Clinical features and pathogenesis of an underdiagnosed geriatric condition. J Am Geriatr Soc. 2006 Dec; 54: 1920-32

125720 Taylor, J., McGrother, C. W., Harrison, S. C., Assassa, P. R. Lower urinary tract symptoms and related help-seeking behaviour in South Asian men living in the UK. BJU Int. 2006 Sep; 98: 605-9

114290 Te, A. E. A modern rationale for the use of phenoxybenzamine in urinary tract disorders and other conditions. Clin Ther. 2002 Jun; 24: 851-61; discussion 837

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

102030 Te, A. E., Malloy, T. R., Stein, B. S., Ulchaker, J. C., Nseyo, U. O., Hai, M. A. Impact of prostate-specific antigen level and prostate volume as predictors of efficacy in photoselective vaporization prostatectomy: analysis and results of an ongoing prospective multicentre study at 3 years. BJU Int. 2006 Jun; 97: 1229-33

105910 Te, A. E., Malloy, T. R., Stein, B. S., Ulchaker, J. C., Nseyo, U. O., Hai, M. A., Malek, R. S. Photoselective vaporization of the prostate for the treatment of benign prostatic hyperplasia: 12-month results from the first United States multicenter prospective trial. J Urol. 2004 Oct; 172: 1404-8

101320 Tefekli, A., Muslumanoglu, A. Y., Baykal, M., Binbay, M., Tas, A., Altunrende, F. A hybrid technique using bipolar energy in transurethral prostate surgery: a prospective, randomized comparison. J Urol. 2005 Oct; 174: 1339-43

116230 Teh, G. C., Sahabudin, R. M., Lim, T. C., Chong, W. L., Woo, S., Mohan, M., Khairullah, A., Abrams, P. Prevalence of symptomatic BPE among Malaysian men aged 50 and above attending screening during prostate health awareness campaign. Med J Malaysia. 2001 Jun; 56: 186-95

153050 Tejani, A., Musini, V., Perry, T. L., Jr., Mintzes, B. and Wright, J. M. Benign prostatic hypertrophy: update on drug therapy. Can Fam Physician. 2006; 52: 1075-6, 1077-8

134110 Temml, C., Brossner, C., Schatzl, G., Ponholzer, A., Knoepp, L., Madersbacher, S. The natural history of lower urinary tract symptoms over five years. Eur Urol. 2003 Apr; 43: 374-80

139730 Temml, C., Haidinger, G., Schmidbauer, J., Schatzl, G., Madersbacher, S. Urinary incontinence in both sexes: prevalence rates and impact on quality of life and sexual life. Neurourol Urodyn. 2000; 19: 259-71

129070 Temml, C., Heidler, S., Ponholzer, A., Madersbacher, S. Prevalence of the overactive bladder syndrome by applying the International Continence Society definition. Eur Urol. 2005 Oct; 48: 622-7

118500 Terada, N., Aoki, Y., Ichioka, K., Matsuta, Y., Okubo, K., Yoshimura, K., Arai, Y. Microwave thermotherapy for benign prostatic hyperplasia with the Dornier Urowave: response durability and variables potentially predicting response. Urology. 2001 Apr; 57: 701-5; discussion 705-6

105380 Terada, N., Arai, Y., Okubo, K., Ichioka, K., Matsui, Y., Yoshimura, K., Terai, A. Interstitial laser coagulation for management of benign prostatic hyperplasia: long-term follow-up. Int J Urol. 2004 Nov; 11: 978-82

131390 Terai, A., Ichioka, K., Matsui, Y., Yoshimura, K. Association of lower urinary tract symptoms with erectile dysfunction in Japanese men. Urology. 2004 Jul; 64: 132-6

132120 Terai, A., Matsui, Y., Ichioka, K., Ohara, H., Terada, N., Yoshimura, K. Comparative analysis of lower urinary tract symptoms and bother in both sexes. Urology. 2004 Mar; 63: 487-91

112260 Terouanne, B., Paris, F., Servant, N., Georget, V., Sultan, C. Evidence that chlormadinone acetate exhibits antiandrogenic activity in androgen-dependent cell line. Mol Cell Endocrinol. 2002 Dec 30; 198: 143-7

118080 Terrone, C., Castelli, E., Aveta, P., Cugudda, A., Rocca Rossetti, S. Iatrogenic ejaculation disorders and their prevention. Minerva Urol Nefrol. 2001 Mar; 53: 19-28

134680 Thacker, M., Hui, J. H., Wong, H. K., Chatterjee, A., Lee, E. H. Spinal fusion and instrumentation for paediatric neuromuscular scoliosis: retrospective review. J Orthop Surg (Hong Kong). 2002 Dec; 10: 144-51

161560 Thalmann, G. N., Graber, S. F., Bitton, A., Burkhard, F. C., Gruenig, O., Studer, U. E. Transurethral thermotherapy for benign prostatic hyperplasia significantly decreases infravesical obstruction: results in 134 patients after 1 year. J Urol. 1999 Aug; 162: 387-93

115070 Thalmann, G. N., Mattei, A., Treuthardt, C., Burkhard, F. C., Studer, U. E. Transurethral microwave therapy in 200 patients with a minimum followup of 2 years: urodynamic and clinical results. J Urol. 2002 Jun; 167: 2496-501

140600 The Italian Alfuzosin Co-Operative Group Safety, efficacy and impact on Patients' quality of life of a long-term treatment with the alpha(1)-blocker alfuzosin in symptomatic patients with BPH. The Italian Alfuzosin Co-Operative Group. Eur Urol. 2000 Jun; 37: 680-6

110970 Thebault, S., Roudbaraki, M., Sydorenko, V., Shuba, Y., Lemonnier, L., Slomianny, C., Dewailly, E., Bonnal, J. L., Mauroy, B., Skryma, R., Prevarskaya, N. Alpha1-adrenergic receptors activate Ca(2+)-permeable cationic channels in prostate cancer epithelial cells. J Clin Invest. 2003 Jun; 111: 1691-701

133260 Theodorou, C., Katsifotis, C., Bocos, J., Moutzouris, G., Stournaras, P., Kostakis, A. Urodynamics prior to renal transplantation--its impact on treatment decision and final results. Scand J Urol Nephrol. 2003; 37: 335-8

135040 Thiel, R., Effert, P. Primary adenocarcinoma of the seminal vesicles. J Urol. 2002 Nov; 168: 1891-6

114800 Thiyagarajan, M. alpha-Adrenoceptor antagonists in the treatment of benign prostate hyperplasia. Pharmacology. 2002 Jul; 65: 119-28

152200 Thoeny, H. C., Zumstein, D., Simon-Zoula, S., Eisenberger, U., De Keyzer, F., Hofmann, L., Vock, P., Boesch, C., Frey, F. J. and Vermathen, P. Functional evaluation of transplanted kidneys with diffusion-weighted and BOLD MR imaging: initial experience. Radiology. 2006; 241: 812-21

126820 Thomas, A. A., Long, R. M., Creagh, T. A., Patchett, S. Emphysematous cystitis in an elderly patient with ulcerative colitis. Ir Med J. 2006 Feb; 99: 56-7

115320 Thomas, A. W., Abrams, P. Lower urinary tract symptoms, benign prostatic obstruction and the overactive bladder. BJU Int. 2000 May; 85 Suppl 3: 57-68; discussion 70-1

128250 Thomas, A. W., Cannon, A., Bartlett, E., Ellis-Jones, J., Abrams, P. The natural history of lower urinary tract dysfunction in men: minimum 10-year urodynamic followup of transurethral resection of prostate for bladder outlet obstruction. J Urol. 2005 Nov; 174: 1887-91

127890 Thomas, A. W., Cannon, A., Bartlett, E., Ellis-Jones, J., Abrams, P. The natural history of lower urinary tract dysfunction in men: minimum 10-year urodynamic follow-up of untreated bladder outlet obstruction. BJU Int. 2005 Dec; 96: 1301-6

127900 Thomas, A. W., Cannon, A., Bartlett, E., Ellis-Jones, J., Abrams, P. The natural history of lower urinary tract dysfunction in men: minimum 10-year urodynamic follow-up of untreated detrusor underactivity. BJU Int. 2005 Dec; 96: 1295-300

132020 Thomas, A. W., Cannon, A., Bartlett, E., Ellis-Jones, J., Abrams, P. The natural history of lower urinary tract dysfunction in men: the influence of detrusor underactivity on the outcome after transurethral resection of the prostate with a minimum 10-year urodynamic follow-up. BJU Int. 2004 Apr; 93: 745-50

123320 Thomas, C. A., Chuang, Y. C., Giannantoni, A., Chancellor, M. B. Botulinum A toxin for the treatment of benign prostatic hyperplasia/lower urinary tract symptoms. Curr Urol Rep. 2006 Jul; 7: 266-71

107450 Thomas, D., Wimmer, A. B., Wu, K., Hammerling, B. C., Ficker, E. K., Kuryshev, Y. A., Kiehn, J., Katus, H. A., Schoels, W., Karle, C. A. Inhibition of human ether-a-go-go-related gene potassium channels by alpha 1-adrenoceptor antagonists prazosin, doxazosin, and terazosin. Naunyn Schmiedebergs Arch Pharmacol. 2004 May; 369: 462-72

104610 Thomas, K., Oades, G., Taylor-Hay, C., Kirby, R. S. Acute urinary retention: what is the impact on patients' quality of life?. BJU Int. 2005 Jan; 95: 72-6

109770 Thomas, L. N., Douglas, R. C., Vessey, J. P., Gupta, R., Fontaine, D., Norman, R. W., Thompson, I. M., Troyer, D. A., Rittmaster, R. S., Lazier, C. B. 5alpha-reductase type 1 immunostaining is enhanced in some prostate cancers compared with benign prostatic hyperplasia epithelium. J Urol. 2003 Nov; 170: 2019-25

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

105250 Thomas, L. N., Lazier, C. B., Gupta, R., Norman, R. W., Troyer, D. A., O'Brien, S. P., Rittmaster, R. S. Differential alterations in 5alpha-reductase type 1 and type 2 levels during development and progression of prostate cancer. Prostate. 2005 May 15; 63: 231-9

122810 Thomas, L. N., Wright, A. S., Lazier, C. B., Cohen, P., Rittmaster, R. S. Prostatic involution in men taking finasteride is associated with elevated levels of insulin-like growth factor-binding proteins (IGFBPs)-2, -4, and -5. Prostate. 2000 Feb 15; 42: 203-10

121500 Thomas, M. D., Cormack, R., Tempany, C. M., Kumar, S., Manola, J., Schneider, L., Hurwitz, M. D., D'Amico, A. V. Identifying the predictors of acute urinary retention following magnetic-resonance-guided prostate brachytherapy. Int J Radiat Oncol Biol Phys. 2000 Jul 1; 47: 905-8

153980 Thompson, J., Reid, M., Hambleton, I. and Serjeant, G. R. Albuminuria and renal function in homozygous sickle cell disease: observations from a cohort study. Arch Intern Med. 2007; 167: 701-8

127960 Thompson, R. H., Dicks, D., Kramer, S. A. Clinical manifestations and functional outcomes in children with eosinophilic cystitis. J Urol. 2005 Dec; 174: 2347-9

120540 Thompson, T. C., Yang, G. Regulation of apoptosis in prostatic disease. Prostate Suppl. 2000; 9: 25-8

122190 Thorpe, A. C., Neal, D. E. Patient information and consent in trials for the treatment of benign prostatic obstruction. BJU Int. 2000 Mar; 85 Suppl 1: 42-5

111290 Thorpe, A., Neal, D. Benign prostatic hyperplasia. Lancet. 2003 Apr 19; 361: 1359-67

118160 Thorson, P., Humphrey, P. A. Minimal adenocarcinoma in prostate needle biopsy tissue. Am J Clin Pathol. 2000 Dec; 114: 896-909

126760 Tibaek, S., Jensen, R., Klarskov, P., Iversen, H. K., Gard, G. The Danish Prostatic Symptom Score (DAN-PSS-1) questionnaire is reliable in stroke patients. Neurourol Urodyn. 2006; 25: 319-23

155560 Tibaek, S., Klarskov, P., Lund Hansen, B., Thomsen, H., Andresen, H., Schmidt Jensen, C. and Niemann Olsen, M. Pelvic floor muscle training before transurethral resection of the prostate: a randomized, controlled, blinded study. Scand J Urol Nephrol. 2007; 41: 329-34

104240 Tigli, H., Yazici, H., Dalay, N. Cyp17 genetic polymorphism in prostate cancer and benign prostatic hyperplasia. Res Commun Mol Pathol Pharmacol. 2003; 113-114: 307-14

140140 Tiguert, R., Harb, J. F., Hurley, P. M., Gomes De Oliveira, J., Castillo-Frontera, R. J., Triest, J. A., Gheiler, E. L. Management of shotgun injuries to the pelvis and lower genitourinary system. Urology. 2000 Feb; 55: 193-7

100170 Tiniakos, D. G., Mitropoulos, D., Kyroudi-Voulgari, A., Soura, K., Kittas, C. Expression of c-jun oncogene in hyperplastic and carcinomatous human prostate. Urology. 2006 Jan; 67: 204-8

102540 Tinmouth, W. W., Habib, E., Kim, S. C., Kuo, R. L., Paterson, R. F., Terry, C. L., Elhilali, M., Lingeman, J. E. Change in serum prostate specific antigen concentration after holmium laser enucleation of the prostate: a marker for completeness of adenoma resection?. J Endourol. 2005 Jun; 19: 550-4

138590 Tirzaman, O., Wahner-Roedler, D. L., Malek, R. S., Sebo, T. J., Li, C. Y., Kyle, R. A. Primary localized amyloidosis of the urinary bladder: a case series of 31 patients. Mayo Clin Proc. 2000 Dec; 75: 1264-8

155490 Tiwari, A. Advances in the development of hormonal modulators for the treatment of benign prostatic hyperplasia. Expert Opin Investig Drugs. 2007; 16: 1425-39

124140 Tiwari, A., Krishna, N. S., Nanda, K., Chugh, A. Benign prostatic hyperplasia: an insight into current investigational medical therapies. Expert Opin Investig Drugs. 2005 Nov; 14: 1359-72

115720 Tkocz, M., Prajsner, A. Comparison of long-term results of transurethral incision of the prostate with transurethral resection of the prostate, in patients with benign prostatic hypertrophy. Neurourol Urodyn. 2002; 21: 112-6

123450 Toh, K. L., Ng, C. K. Urodynamic studies in the evaluation of young men presenting with lower urinary tract symptoms. Int J Urol. 2006 May; 13: 520-3

101610 Tokizane, T., Shiina, H., Igawa, M., Enokida, H., Urakami, S., Kawakami, T., Ogishima, T., Okino, S. T., Li, L. C., Tanaka, Y., Nonomura, N., Okuyama, A., Dahiya, R. Cytochrome P450 1B1 is overexpressed and regulated by hypomethylation in prostate cancer. Clin Cancer Res. 2005 Aug 15; 11: 5793-801

106240 Toliusiene, J., Lesauskaite, V. The nutritional status of older men with advanced prostate cancer and factors affecting it. Support Care Cancer. 2004 Oct; 12: 716-9

105730 Tomas, D., Kruslin, B. The potential value of (Myo)fibroblastic stromal reaction in the diagnosis of prostatic adenocarcinoma. Prostate. 2004 Dec 1; 61: 324-31

150370 Tomas, D., Kruslin, B., Rogatsch, H., Schafer, G., Belicza, M. and Mikuz, G. Different types of atrophy in the prostate with and without adenocarcinoma. Eur Urol. 2007; 51: 98-103; discussion 103-4

164130 Tombach, B., Bremer, C., Reimer, P., Schaefer, R. M., Ebert, W., Geens, V., Heindel, W. Pharmacokinetics of 1M gadobutrol in patients with chronic renal failure. Invest Radiol. 2000 Jan; 35: 35-40

160440 Tombal, B., De Visccher, L., Cosyns, J. P., Lorge, F., Opsomer, R., Wese, F. X., Van Cangh, P. J. Assessing the risk of unsuspected prostate cancer in patients with benign prostatic hypertrophy: a 13-year retrospective study of the incidence and natural history of T1a-T1b prostate cancers. BJU Int. 1999 Dec; 84: 1015-20

152520 Tomlins, S. A., Mehra, R., Rhodes, D. R., Cao, X., Wang, L., Dhanasekaran, S. M., Kalyana-Sundaram, S., Wei, J. T., Rubin, M. A., Pienta, K. J., Shah, R. B. and Chinnaiyan, A. M. Integrative molecular concept modeling of prostate cancer progression. Nat Genet. 2007; 39: 41-51

153920 Tong, Y. C. Comparisons of urodynamic findings and voiding habits in patients with concomitant benign prostatic hyperplasia and detrusor overactivity presenting with or without the symptom of urgency. Urol Int. 2007; 78: 219-25

128420 Tong, Y. C. The effect of psychological motivation on volumes voided during uroflowmetry in healthy aged male volunteers. Neurourol Urodyn. 2006; 25: 12-Aug

107630 Tooher, R., Sutherland, P., Costello, A., Gilling, P., Rees, G., Maddern, G. A systematic review of holmium laser prostatectomy for benign prostatic hyperplasia. J Urol. 2004 May; 171: 1773-81

164440 Torffvit, O. Diabetic nephropathy: what causes to treat?. Scand J Urol Nephrol. 1999 Oct; 33: 324-7

115370 Torring, N., Moller-Ernst Jensen, K., Lund, L., Nielsen, J. E., Djurhuus, J. C., Poulsen, S. S., Nexo, E. Possible autocrine loop of the epidermal growth factor system in patients with benign prostatic hyperplasia treated with finasteride: a placebo-controlled randomized study. BJU Int. 2002 Apr; 89: 583-90

156850 Torun, D., Ozelsancak, R., Turan, I., Micozkadioglu, H., Sezer, S. and Ozdemir, F. N. The relationship between obesity and transforming growth factor beta on renal damage in essential hypertension. Int Heart J. 2007; 48: 733-41

121710 Toth, M., Patton, D. L., Campbell, L. A., Carretta, E. I., Mouradian, J., Toth, A., Shevchuk, M., Baergen, R., Ledger, W. Detection of chlamydial antigenic material in ovarian, prostatic, ectopic pregnancy and semen samples of culture-negative subjects. Am J Reprod Immunol. 2000 Apr; 43: 218-22

160720 Tozawa, K., Yamada, Y., Kawai, N., Okamura, T., Ueda, K., Kohri, K. Osteopontin expression in prostate cancer and benign prostatic hyperplasia. Urol Int. 1999; 62: 155-8

103270 Trachtenberg, J. Treatment of lower urinary tract symptoms suggestive of benign prostatic hyperplasia in relation to the patient's risk profile for progression. BJU Int. 2005 Jun; 95 Suppl 4: 11-Jun

165640 Tracy, R. E., Guileyardo, J. M. Renovasculopathies of hypertension in Hispanic residents of Dallas, Texas. Arch Med Res. 1999 Jan-Feb; 30: 40-8

121030 Traxer, O., Anidjar, M., Gaudez, F., Saporta, F., Daudon, M., Cortesse, A., Desgrandchamps, F., Cussenot, O., Teillac, P., Le Duc, A. A new prostatic stent for the treatment of benign prostatic hyperplasia in high-risk patients. Eur Urol. 2000 Sep; 38: 272-8

160000 Treadwell, J. R., Soetikno, R. M., Lenert, L. A. Feasibility of quality-of-life research on the Internet: a follow-up study. Qual Life Res. 1999 Dec; 8: 743-7

137670 Treagust, J., Morkane, T., Speakman, M. Estimating a population's needs for the treatment of lower urinary tract symptoms in men: what is the extent of unmet need?. J Public Health Med. 2001 Jun; 23: 141-7

134670 Trembath, D. G., Rijhsinghani, A. Possible maternal inheritance of a common obstructive urinary tract anomaly. Report of a case of a woman with multiple urinary tract infections and two sons with posterior urethral valves. J Reprod Med. 2002 Nov; 47: 962-4

115960 Triadafilopoulos, G., Utley, D. S. Temperature-controlled radiofrequency energy delivery for gastroesophageal reflux disease: the Stretta procedure. J Laparoendosc Adv Surg Tech A. 2001 Dec; 11: 333-9

107650 Trock, B. J., Brotzman, M., Utz, W. J., Ugarte, R. R., Kaplan, S. A., Larson, T. R., Blute, M. L., Roehrborn, C. G., Partin, A. W. Long-term pooled analysis of multicenter studies of cooled thermotherapy for benign prostatic hyperplasia results at three months through four years. Urology. 2004 Apr; 63: 716-21

154410 Trofimov, A., Nguyen, P. L., Coen, J. J., Doppke, K. P., Schneider, R. J., Adams, J. A., Bortfeld, T. R., Zietman, A. L., Delaney, T. F. and Shipley, W. U. Radiotherapy treatment of early-stage prostate cancer with IMRT and protons: a treatment planning comparison. Int J Radiat Oncol Biol Phys. 2007; 69: 444-53

106930 Trojan, L., Michel, M. S., Rensch, F., Jackson, D. G., Alken, P., Grobholz, R. Lymph and blood vessel architecture in benign and malignant prostatic tissue: lack of lymphangiogenesis in prostate carcinoma assessed with novel lymphatic marker lymphatic vessel endothelial hyaluronan receptor (LYVE-1). J Urol. 2004 Jul; 172: 103-7

102630 Trojan, L., Rensch, F., Voss, M., Grobholz, R., Weiss, C., Jackson, D. G., Alken, P., Michel, M. S. The role of the lymphatic system and its specific growth factor, vascular endothelial growth factor C, for lymphogenic metastasis in prostate cancer. BJU Int. 2006 Oct; 98: 903-6

106470 Trojan, L., Thomas, D., Friedrich, D., Grobholz, R., Knoll, T., Alken, P., Michel, M. S. Expression of different vascular endothelial markers in prostate cancer and BPH tissue: an immunohistochemical and clinical evaluation. Anticancer Res. 2004 May-Jun; 24: 1651-6

100030 Trumbeckas, D., Milonas, D., Jievaltas, M., Danilevicius, M., Matjosaitis, A. J. Influence of catheter on urinary flow during urodynamic pressure-flow study in men with symptomatic benign prostatic hyperplasia. Medicina (Kaunas). 2006; 42: 15-21

138300 Truss, M. C., Stief, C. G., Uckert, S., Becker, A. J., Schultheiss, D., Machtens, S., Jonas, U. Initial clinical experience with the selective phosphodiesterase-I isoenzyme inhibitor vinpocetine in the treatment of urge incontinence and low compliance bladder. World J Urol. 2000 Dec; 18: 439-43

128240 Tsai, S. Y., Chang, C. Y., Piercey, K., Kapoor, A. Terminal loop cutaneous ureterostomy in renal transplantation: an under utilized urinary diversion technique. J Urol. 2005 Nov; 174: 1906-9; discussion 1909

130840 Tsai, Y. C., Hsu, C. Y., Lin, G. J., Wang, C. J., Cheng, C. H., Huang, Y. H., Yen, M. H., Hsia, S. H., Yan, D. C. Vesicoureteral reflux in hospitalized children with urinary tract infection: the clinical value of pelvic ectasia on renal ultrasound, inflammatory responses and demographic data. Chang Gung Med J. 2004 Jun; 27: 436-42

130480 Tsai, Y. C., Yang, S. S., Wang, C. C. Neodymium:YAG laser incision of congenital obstructive posterior urethral membrane in boys with urinary incontinence and low uroflow. J Formos Med Assoc. 2004 Nov; 103: 872-5

154970 Tsai, Y. S., Lan, S. K., Ou, J. H. and Tzai, T. S. Effects of branded versus generic terazosin hydrochloride in adults with benign prostatic hyperplasia: a randomized, open-label, crossover study in Taiwan. Clin Ther. 2007; 29: 670-82

117510 Tsai, Y. S., Lin, J. S., Tong, Y. C., Tzai, T. S., Yang, W. H., Chang, C. C., Cheng, H. L., Lin, Y. M., Jou, Y. C. Transurethral microwave thermotherapy for symptomatic benign prostatic hyperplasia: long-term durability with Prostcare. Eur Urol. 2001 Jun; 39: 688-92; discussion 693-4

120670 Tsai, Y. S., Lin, J. S., Tong, Y. C., Tzai, T. S., Yang, W. H., Chang, C. C., Cheng, H. L., Lin, Y. M., Jou, Y. C. Transurethral microwave thermotherapy for symptomatic benign prostatic hyperplasia: short-term experience with Prostcare. Urol Int. 2000; 65: 89-94

154740 Tseng, S. F., Chen, Y. T., Cheng, Y. T. and Hsieh, H. H. Method and outcome of transvesical ureterectomy of the distal ureter in nephroureterectomy of native kidney upper tract urothelial carcinoma ipsilateral to a transplanted kidney. Urology. 2007; 69: 1045-8

109180 Tsivian, A., Shtricker, A., Sidi, A. A. Simultaneous transurethral resection of bladder tumor and benign prostatic hyperplasia: hazardous or a safe timesaver?. J Urol. 2003 Dec; 170: 2241-3

104920 Tsuchiya, N., Wang, L., Horikawa, Y., Inoue, T., Kakinuma, H., Matsuura, S., Sato, K., Ogawa, O., Kato, T., Habuchi, T. CA repeat polymorphism in the insulin-like growth factor-I gene is associated with increased risk of prostate cancer and benign prostatic hyperplasia. Int J Oncol. 2005 Jan; 26: 225-31

108370 Tsui, K. H., Chang, P. L., Chang, S. S., Cheng, H. L. Interstitial laser photocoagulation for treatment of benign prostatic hypertrophy: outcomes and cost effectiveness. Chang Gung Med J. 2003 Nov; 26: 799-806

121640 Tsujii, T. Comparison of prazosin, terazosin and tamsulosin in the treatment of symptomatic benign prostatic hyperplasia: a short-term open, randomized multicenter study. BPH Medical Therapy Study Group. Benign prostatic hyperplasia. Int J Urol. 2000 Jun; 7: 199-205

114950 Tsujimoto, Y., Nonomura, N., Takayama, H., Yomogida, K., Nozawa, M., Nishimura, K., Okuyama, A., Nozaki, M., Aozasa, K. Utility of immunohistochemical detection of prostate-specific Ets for the diagnosis of benign and malignant prostatic epithelial lesions. Int J Urol. 2002 Mar; 9: 167-72

113730 Tsujimoto, Y., Takayama, H., Nonomura, N., Okuyama, A., Aozasa, K. Postatrophic hyperplasia of the prostate in Japan: histologic and immunohistochemical features and p53 gene mutation analysis. Prostate. 2002 Sep 1; 52: 279-87

115700 Tsujimura, A., Yamanaka, M., Takahashi, T., Miura, H., Nishimura, K., Koga, M., Iwasa, A., Takeyama, M., Matsumiya, K., Takahara, S., Okuyama, A. The clinical studies of sildenafil for the ageing male. Int J Androl. 2002 Feb; 25: 28-33

100560 Tsukada, O., Murakami, M., Kosuge, T., Yokoyama, H. Treatment of benign prostatic hyperplasia using transurethral microwave thermotherapy and dilatation with double-balloon catheter. J Endourol. 2005 Oct; 19: 1016-20

154170 Tsukamoto, T., Masumori, N., Rahman, M. and Crane, M. M. Change in International Prostate Symptom Score, prostrate-specific antigen and prostate volume in patients with benign prostatic hyperplasia followed longitudinally. Int J Urol. 2007; 14: 321-4; discussion 325

113650 Tsuru, N., Kurita, Y., Masuda, H., Suzuki, K., Fujita, K. Role of Doppler ultrasound and resistive index in benign prostatic hypertrophy. Int J Urol. 2002 Aug; 9: 427-30

103470 Tsuru, N., Kurita, Y., Suzuki, K., Fujita, K. Resistance index in benign prostatic hyperplasia using power Doppler imaging and clinical outcomes after transurethral vaporization of the prostate. Int J Urol. 2005 Mar; 12: 264-9

111880 Tsurusaki, T., Aoki, D., Kanetake, H., Inoue, S., Muramatsu, M., Hishikawa, Y., Koji, T. Zone-dependent expression of estrogen receptors alpha and beta in human benign prostatic hyperplasia. J Clin Endocrinol Metab. 2003 Mar; 88: 1333-40

129710 Tsuzuki, T., Epstein, J. I. Fibroepithelial polyp of the lower urinary tract in adults. Am J Surg Pathol. 2005 Apr; 29: 460-6

160060 Tubaro, A. The use of voiding studies (flowmetry and urodynamics) in the assessment and follow-up of patients. Curr Opin Urol. 1999 Jan; 9: 15-20

117660 Tubaro, A., Carter, S., Hind, A., Vicentini, C., Miano, L. A prospective study of the safety and efficacy of suprapubic transvesical prostatectomy in patients with benign prostatic hyperplasia. J Urol. 2001 Jul; 166: 172-6

112250 Tubaro, A., Carter, S., Trucchi, A., Punzo, G., Petta, S., Miano, L. Early treatment of benign prostatic hyperplasia: implications for reducing the risk of permanent bladder damage. Drugs Aging. 2003; 20: 185-95

152350 Tubaro, A., De Nunzio, C. and Miano, R. Transurethral needle ablation of the prostate. Curr Opin Urol. 2007; 17: 7-11

107210 Tubaro, A., La Vecchia, C. The relation of lower urinary tract symptoms with life-style factors and objective measures of benign prostatic enlargement and obstruction: an Italian survey. Eur Urol. 2004 Jun; 45: 767-72

160500 Tubaro, A., Montanari, E. Management of symptomatic BPH in Italy: who is treated and how?. Eur Urol. 1999; 36 Suppl 3: 28-32

128590 Tubaro, A., Palleschi, G. Overactive bladder: epidemiology and social impact. Curr Opin Obstet Gynecol. 2005 Oct; 17: 507-11

112810 Tubaro, A., Trucchi, A., Miano, L. Investigation of benign prostatic hyperplasia. Curr Opin Urol. 2003 Jan; 13: 17-22

138740 Tubaro, A., Vicentini, C., Renzetti, R., Miano, L. Invasive and minimally invasive treatment modalities for lower urinary tract symptoms: what are the relevant differences in randomised controlled trials?. Eur Urol. 2000; 38 Suppl 1: 17-Jul

106160 Tuhkanen, K., Heino, A., Aaltoma, S., Ala-Opas, M. Sexual function of LUTS patients before and after neodymium laser prostatectomy and transurethral resection of prostate. A prospective, randomized trial. Urol Int. 2004; 73: 137-42

108830 Tuhkanen, K., Heino, A., Aaltomaa, S., Ala-Opas, M. Long-term results of contact laser versus transurethral resection of the prostate in the treatment of benign prostatic hyperplasia with small or moderately enlarged prostates. Scand J Urol Nephrol. 2003; 37: 487-93

160710 Tuhkanen, K., Heino, A., Alaopas, M. Hybrid laser treatment compared with transurethral resection of the prostate for symptomatic bladder outlet obstruction caused by a large benign prostate: a prospective, randomized trial with a 6-month follow-up. BJU Int. 1999 Nov; 84: 805-9

117400 Tuhkanen, K., Heino, A., Ala-Opas, M. Two-year follow-up results of a prospective randomized trial comparing hybrid laser prostatectomy with TURP in the treatment of big benign prostates. Scand J Urol Nephrol. 2001 Jun; 35: 200-4

163450 Tulikangas, P. K., Weber, A. M., Larive, A. B., Walters, M. D. Intraoperative cystoscopy in conjunction with anti-incontinence surgery. Obstet Gynecol. 2000 Jun; 95: 794-6

103060 Tunc, M., Sanli, O., Kandirali, E., Tefekli, A., Oktar, T., Esen, T., Acar, O., Uysal, V. Should high-grade prostatic intraepithelial neoplasia change our approach to infravesical obstruction?. Urol Int. 2005; 74: 332-6

133630 Tuncay Aki, F., Aygun, C., Bilir, N., Erkan, I., Ozen, H. Prevalence of lower urinary tract symptoms in a community-based survey of men in Turkey. Int J Urol. 2003 Jul; 10: 364-70

129080 Tuncel, A., Uzun, B., Eruyar, T., Karabulut, E., Seckin, S., Atan, A. Do prostatic infarction, prostatic inflammation and prostate morphology play a role in acute urinary retention?. Eur Urol. 2005 Aug; 48: 277-83; discussion 283-4

113700 Tunuguntla, H. S., Evans, C. P. Minimally invasive therapies for benign prostatic hyperplasia. World J Urol. 2002 Sep; 20: 197-206

120060 Turan, T., Demir, S., Aybek, H., Atahan, O., Tuncay, O. L., Aybek, Z. Free and total prostate-specific antigen levels in saliva and the comparison with serum levels in men. Eur Urol. 2000 Nov; 38: 550-4

154830 Turgut, A. T., Olcucuoglu, E., Kosar, P., Geyik, P. O., Kosar, U. and Dogra, V. Power Doppler ultrasonography of the feeding arteries of the prostate gland: a novel approach to the diagnosis of prostate cancer?. J Ultrasound Med. 2007; 26: 875-83

162410 Turhan, O. I., Aydin, N. E., Sariyuce, O., Ozkan, S. Cells in various benign and malignant conditions of the human prostate express different antigenic phenotypes. Int Urol Nephrol. 1998; 30: 731-44

133410 Turker Koksal, I., Erdogru, T., Usta, M., Ates, M., Baykara, M. Unexpected presentation of syringocele. Acontractile bladder. Urol Int. 2003; 71: 222-3

118110 Turkeri, L. N., Ozyurek, M., Ersev, D., Akdas, A. Apoptotic regression of prostatic tissue induced by short-term doxazosin treatment in benign prostatic hyperplasia. Arch Esp Urol. 2001 Mar; 54: 191-6

156870 Turkeri, L. N., Temiz, Y., Yazici, C. M. and Tinay, I. A new suture technique for anastomosis in radical retropubic prostatectomy and early removal of urethral catheter. Can J Urol. 2007; 14: 3734-8

131670 Turkolmez, K., Baltaci, S., Gogus, C., Beduk, Y., Gogus, O. Results of the ureteral reimplantation with serous-lined extramural tunnel in orthotopic ileal W-neobladder. Int J Urol. 2004 Jun; 11: 368-73

162950 Turkolmez, K., Bozlu, M., Sarica, K., Gemalmaz, H., Ozdiler, E., Gogus, O. Effects of transurethral prostate resection and transurethral laser prostatectomy on plasma hormone levels. Urol Int. 1998; 61: 162-7

156030 Turna, B., Ekren, F., Nazli, O., Akbay, K., Altay, B., Ozyurt, C. and Cikili, N. Comparative results of shockwave lithotripsy for renal calculi in upper, middle, and lower calices. J Endourol. 2007; 21: 951-6

125840 Turney, B. W., Willatt, J. M., Nixon, D., Crew, J. P., Cowan, N. C. Computed tomography urography for diagnosing bladder cancer. BJU Int. 2006 Aug; 98: 345-8

101080 Tweezer-Zaks, N., Marai, I., Livneh, A., Bank, I., Langevitz, P. Autoimmune phenomena following prostatectomy. Isr Med Assoc J. 2005 Sep; 7: 575-7

152880 Tylicki, L., Biedunkiewicz, B., Chamienia, A., Wojnarowski, K., Zdrojewski, Z., Aleksandrowicz, E., Lysiak-Szydlowska, W. and Rutkowski, B. Renal allograft protection with angiotensin II type 1 receptor antagonists. Am J Transplant. 2007; 7: 243-8

155780 Tziraki, A. A., Sotsiou, F. K., Tzirakis, M. A., Kominakis, A. P., Hadjiconstantinou, V. F., Nikolopoulou, N. I. and Moutsatsou, P. C. Reduction in glucocorticoid receptors in renal biopsies of patients with lupus nephritis. Clin Biochem. 2007; 40: 1188-93

125910 Ubara, Y., Tagami, T., Higa, Y., Suwabe, T., Nomura, K., Hoshino, J., Sawa, N., Katori, H., Takemoto, F., Hara, S., Takaichi, K. Successful renal transcatheter arterial embolization in three patients with symptomatic hydronephrosis due to ureteral obstruction. Intern Med. 2006; 45: 769-74

103580 Uchikoba, T., Horiuchi, K., Oka, F., Sato, M., Tsuboi, N., Ohaki, Y., Nishimura, T. Diagnosing the location of carcinoma in situ (CIS) of the urinary bladder using pirarubicin hydrochloride. Urol Int. 2005; 74: 235-9

103010 Uchikoba, T., Horiuchi, K., Satoh, M., Oka, F., Saitoh, Y., Tsuboi, N., Nishimura, T. Urethral stent (Angiomed-Memotherm) implantation in high-risk patients with urinary retention. Hinyokika Kiyo. 2005 Apr; 51: 235-9

154440 Uchino, S., Bellomo, R., Kellum, J. A., Morimatsu, H., Morgera, S., Schetz, M. R., Tan, I., Bouman, C., Macedo, E., Gibney, N., Tolwani, A., Oudemans-Van Straaten, H. M. and Ronco, C. Patient and kidney survival by dialysis modality in critically ill patients with acute kidney injury. Int J Artif Organs. 2007; 30: 281-92

132530 Uchiyama, T., Sakakibara, R., Hattori, T., Yamanishi, T. Lower urinary tract dysfunctions in patients with spinal cord tumors. Neurourol Urodyn. 2004; 23: 68-75

116750 Uckert, S., Kuthe, A., Jonas, U., Stief, C. G. Characterization and functional relevance of cyclic nucleotide phosphodiesterase isoenzymes of the human prostate. J Urol. 2001 Dec; 166: 2484-90

135310 Uckert, S., Stief, C. G., Lietz, B., Burmester, M., Jonas, U., Machtens, S. A. Possible role of bioactive peptides in the regulation of human detrusor smooth muscle - functional effects in vitro and immunohistochemical presence. World J Urol. 2002 Sep; 20: 244-9

127750 Uckert, S., Stief, C. G., Mayer, M., Jonas, U., Hedlund, P. Distribution and functional significance of phosphodiesterase isoenzymes in the human lower urinary tract. World J Urol. 2005 Dec; 23: 368-73

155160 Ugurlu, O., Gonulalan, U., Adsan, O., Kosan, M., Oztekin, V. and Cetinkaya, M. Effects of simultaneous transurethral resection of prostate and solitary bladder tumors smaller than 3 cm on oncologic results. Urology. 2007; 70: 55-9

131600 Ukimura, O., Iwata, T., Ushijima, S., Suzuki, K., Honjo, H., Okihara, K., Mizutani, Y., Kawauchi, A., Miki, T. Possible contribution of prostatic anterior fibromuscular stroma to age-related urinary disturbance in reference to pressure-flow study. Ultrasound Med Biol. 2004 May; 30: 575-81

102640 Ukimura, O., Kawauchi, A., Kanazawa, M., Miyashita, H., Yoneda, K., Kojima, M., Nakanouchi, T., Miki, T. Preoperative administration of chlormadinone acetate reduces blood loss associated with transurethral resection of the prostate: a prospective randomized study. BJU Int. 2005 Jul; 96: 98-102

132510 Ukkonen, M., Elovaara, I., Dastidar, P., Tammela, T. L. Urodynamic findings in primary progressive multiple sclerosis are associated with increased volumes of plaques and atrophy in the central nervous system. Acta Neurol Scand. 2004 Feb; 109: 100-5

134060 Ulleryd, P., Sandberg, T. Ciprofloxacin for 2 or 4 weeks in the treatment of febrile urinary tract infection in men: a randomized trial with a 1 year follow-up. Scand J Infect Dis. 2003; 35: 34-9

137700 Ulleryd, P., Zackrisson, B., Aus, G., Bergdahl, S., Hugosson, J., Sandberg, T. Selective urological evaluation in men with febrile urinary tract infection. BJU Int. 2001 Jul; 88: 15-20

155880 Ullrich, P. M., Lutgendorf, S. K. and Kreder, K. J. Physiologic reactivity to a laboratory stress task among men with benign prostatic hyperplasia. Urology. 2007; 70: 487-91; discussion 491-2

153040 Umezurike, B. I., Ekanem, T. B., Eluwa, M. A., Etta, K. K., Udo-Affah, G. A. and Aligwekwe, A. U. The frequency of benign prostate hypertrophy in Calabar. Niger Postgrad Med J. 2006; 13: 236-9

112930 Ung, J. O., San Francisco, I. F., Regan, M. M., DeWolf, W. C., Olumi, A. F. The relationship of prostate gland volume to extended needle biopsy on prostate cancer detection. J Urol. 2003 Jan; 169: 130-5

161150 Uno, H., Koide, T., Kuriyama, M., Ban, Y., Deguchi, T., Kawada, Y. Prostate specific antigen density for discriminating prostate cancer from benign prostatic hyperplasia in the gray zone of prostate-specific antigen. Hinyokika Kiyo. 1999 Jul; 45: 457-61

106880 Unsal, A., Cimentepe, E. Effect of voiding position on uroflowmetric parameters and post-void residual urine volume in patients with benign prostatic hyperplasia. Scand J Urol Nephrol. 2004; 38: 240-2

104760 Untergasser, G., Gander, R., Lilg, C., Lepperdinger, G., Plas, E., Berger, P. Profiling molecular targets of TGF-beta1 in prostate fibroblast-to-myofibroblast transdifferentiation. Mech Ageing Dev. 2005 Jan; 126: 59-69

109630 Untergasser, G., Gander, R., Rumpold, H., Heinrich, E., Plas, E., Berger, P. TGF-beta cytokines increase senescence-associated beta-galactosidase activity in human prostate basal cells by supporting differentiation processes, but not cellular senescence. Exp Gerontol. 2003 Oct; 38: 1179-88

103830 Untergasser, G., Madersbacher, S., Berger, P. Benign prostatic hyperplasia: age-related tissue-remodeling. Exp Gerontol. 2005 Mar; 40: 121-8

161920 Untergasser, G., Rumpold, H., Hermann, M., Dirnhofer, S., Jilg, G., Berger, P. Proliferative disorders of the aging human prostate: involvement of protein hormones and their receptors. Exp Gerontol. 1999 Apr; 34: 275-87

116740 Untergasser, G., Rumpold, H., Plas, E., Witkowski, M., Berger, P. Seminal plasma factors induce in vitro PRL secretion in smooth muscle cells of the human prostate. J Clin Endocrinol Metab. 2001 Nov; 86: 5577-84

134570 Uozumi, J., Fujiyama, C., Meiri, H., Tsukahara, T., Soejima, K., Kanou, T., Masaki, Z. Hand-assisted retroperitoneoscopic nephroureterectomy for upper urinary-tract urothelial tumors. J Endourol. 2002 Dec; 16: 743-7

117190 Upadhyay, L., Tripathi, K., Kulkarni, K. S. A study of prostane in the treatment of benign prostatic hyperplasia. Phytother Res. 2001 Aug; 15: 411-5

107020 Urano, T., Takahashi, S., Suzuki, T., Fujimura, T., Fujita, M., Kumagai, J., Horie-Inoue, K., Sasano, H., Kitamura, T., Ouchi, Y., Inoue, S. 14-3-3sigma is down-regulated in human prostate cancer. Biochem Biophys Res Commun. 2004 Jul 2; 319: 795-800

105360 Usher, P. A., Thomsen, O. F., Iversen, P., Johnsen, M., Brunner, N., Hoyer-Hansen, G., Andreasen, P., Dano, K., Nielsen, B. S. Expression of urokinase plasminogen activator, its receptor and type-1 inhibitor in malignant and benign prostate tissue. Int J Cancer. 2005 Mar 1; 113: 870-80

126070 Ushijima, S., Ukimura, O., Okihara, K., Mizutani, Y., Kawauchi, A., Miki, T. Visual analog scale questionnaire to assess quality of life specific to each symptom of the International Prostate Symptom Score. J Urol. 2006 Aug; 176: 665-71

113830 Usmani, B. A., Harden, B., Maitland, N. J., Turner, A. J. Differential expression of neutral endopeptidase-24.11 (neprilysin) and endothelin-converting enzyme in human prostate cancer cell lines. Clin Sci (Lond). 2002 Aug; 103 Suppl 48: 314S-317S

134160 Usta, M. F., Adams, D. M., Zhang, J. W., Davis, R., Hellstrom, W. J. Penile epithelioid sarcoma and the case for a histopathological diagnosis in Peyronie's disease. BJU Int. 2003 Apr; 91: 519-21

111170 Utleg, A. G., Yi, E. C., Xie, T., Shannon, P., White, J. T., Goodlett, D. R., Hood, L., Lin, B. Proteomic analysis of human prostasomes. Prostate. 2003 Jul 1; 56: 150-61

111590 Uzzo, R. G., Pinover, W. H., Horwitz, E. M., Parlanti, A., Mazzoni, S., Raysor, S., Mirchandani, I., Greenberg, R. E., Pollack, A., Hanks, G. E., Watkins-Bruner, D. Free prostate-specific antigen improves prostate cancer detection in a high-risk population of men with a normal total PSA and digitalrectal examination. Urology. 2003 Apr; 61: 754-9

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

119120 Vaarala, M. H., Lukkarinen, O., Marttila, T., Kyllonen, A. P., Porvari, K. S., Vihko, P. T. Prostatic expression of human 5alpha-reductase type 2 during finasteride therapy: a randomized, double-blind, placebo-controlled study. World J Urol. 2000 Dec; 18: 406-10

116550 Vaarala, M. H., Porvari, K., Kyllonen, A., Lukkarinen, O., Vihko, P. The TMPRSS2 gene encoding transmembrane serine protease is overexpressed in a majority of prostate cancer patients: detection of mutated TMPRSS2 form in a case of aggressive disease. Int J Cancer. 2001 Dec 1; 94: 705-10

121000 Vaarala, M. H., Porvari, K., Kyllonen, A., Vihko, P. Differentially expressed genes in two LNCaP prostate cancer cell lines reflecting changes during prostate cancer progression. Lab Invest. 2000 Aug; 80: 1259-68

120270 Vacherot, F., Azzouz, M., Gil-Diez-De-Medina, S., Colombel, M., De La Taille, A., Lefrere Belda, M. A., Abbou, C. C., Raynaud, J. P., Chopin, D. K. Induction of apoptosis and inhibition of cell proliferation by the lipido-sterolic extract of Serenoa repens (LSESr, Permixon in benign prostatic hyperplasia. Prostate. 2000 Nov 1; 45: 259-66

151970 Vachvanichsanong, P., Dissaneewate, P., Lim, A. and Geater, A. Outcome of conservative treatment of primary vesicoureteral reflux in 87 Thai children in a single center. Int J Urol. 2006; 13: 1393-7

136200 Vaidyanathan, S., Hughes, P. L., Soni, B. M., Singh, G., Sett, P. Klippel-Feil syndrome - the risk of cervical spinal cord injury: a case report. BMC Fam Pract. 2002 Apr 11; 3: 6

106680 Vaisanen, V., Eriksson, S., Ivaska, K. K., Lilja, H., Nurmi, M., Pettersson, K. Development of sensitive immunoassays for free and total human glandular kallikrein 2. Clin Chem. 2004 Sep; 50: 1607-17

130170 Vaish, M., Mandhani, A., Mittal, R. D., Mittal, B. Microsatellite instability as prognostic marker in bladder tumors: a clinical significance. BMC Urol. 2005; 5: 2

118220 Vale, J. Benign prostatic hyperplasia and erectile dysfunction--is there a link?. Curr Med Res Opin. 2000; 16 Suppl 1: s63-7

164550 Valente de Almeida, R., Rocha de Carvalho, J. G., de Azevedo, V. F., Mulinari, R. A., Ioshhi, S. O., da Rosa Utiyama, S., Nisihara, R. Microalbuminuria and renal morphology in the evaluation of subclinical lupus nephritis. Clin Nephrol. 1999 Oct; 52: 218-29

122540 Valentini, F. A., Besson, G. R., Nelson, P. P., Zimmern, P. E. A mathematical micturition model to restore simple flow recordings in healthy and symptomatic individuals and enhance uroflow interpretation. Neurourol Urodyn. 2000; 19: 153-76

107550 Valentini, F. A., Levin, R. M., Besson, G. R., Nelson, P. P. Study of detrusor dysfunction due to outlet obstruction: link between analysis of uroflows of men with benign prostatic hyperplasia and animal studies. Adv Exp Med Biol. 2003; 539: 297-309

112910 Valentini, F. A., Zimmern, P. E., Besson, G. R., Nelson, P. P. Modelized analysis of pressure-flow studies of patients with lower urinary tract symptoms due to benign prostatic enlargement. Neurourol Urodyn. 2003; 22: 45-53

138690 Vallancien, G. How are lower urinary tract symptoms managed in real life practice? The French experience. Eur Urol. 2000; 38 Suppl 1: 54-9

157320 Vallancien, G., Emberton, M., Alcaraz, A., Matzkin, H., van Moorselaar, R. J., Hartung, R., Harving, N. and Elhilali, M. Alfuzosin 10 mg once daily for treating benign prostatic hyperplasia: a 3-year experience in real-life practice. BJU Int. 2008; 101: 847-52

111060 Vallancien, G., Emberton, M., Harving, N., van Moorselaar, R. J. Sexual dysfunction in 1,274 European men suffering from lower urinary tract symptoms. J Urol. 2003 Jun; 169: 2257-61

140610 Vallancien, G., Pariente, P. Treatment of lower urinary tract symptoms suggestive of benign prostatic obstruction in real life practice in France. Prostate Cancer Prostatic Dis. 2001; 4: 124-131

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

107070 Vallbo, C., Wang, W., Damber, J. E. The expression of thrombospondin-1 in benign prostatic hyperplasia and prostatic intraepithelial neoplasia is decreased in prostate cancer. BJU Int. 2004 Jun; 93: 1339-43

137520 van Balken, M. R., Vandoninck, V., Gisolf, K. W., Vergunst, H., Kiemeney, L. A., Debruyne, F. M., Bemelmans, B. L. Posterior tibial nerve stimulation as neuromodulative treatment of lower urinary tract dysfunction. J Urol. 2001 Sep; 166: 914-8

134490 van Balken, M. R., Vandoninck, V., Messelink, B. J., Vergunst, H., Heesakkers, J. P., Debruyne, F. M., Bemelmans, B. L. Percutaneous tibial nerve stimulation as neuromodulative treatment of chronic pelvic pain. Eur Urol. 2003 Feb; 43: 158-63; discussion 163

102060 van Breemen, R. B. How do intermediate endpoint markers respond to lycopene in men with prostate cancer or benign prostate hyperplasia?. J Nutr. 2005 Aug; 135: 2062S-4S

121420 van der Graaf, M., Schipper, R. G., Oosterhof, G. O., Schalken, J. A., Verhofstad, A. A., Heerschap, A. Proton MR spectroscopy of prostatic tissue focused on the detection of spermine, a possible biomarker of malignant behavior in prostate cancer. MAGMA. 2000 Jul; 10: 153-9

102650 van der Heul-Nieuwenhuijsen, L., Hendriksen, P. J., van der Kwast, T. H., Jenster, G. Gene expression profiling of the human prostate zones. BJU Int. 2006 Oct; 98: 886-97

125140 van der Meulen, J., Brown, C. T., Yap, T., Cromwell, D. A., Rixon, L., Steed, L., Mulligan, K., Mundy, A., Newman, S. P., Emberton, M. Self management for men with lower urinary tract symptoms: randomised controlled trial. BMJ. 2007 Jan 6; 334: 25

127720 van der Pal, F., van Balken, M. R., Heesakkers, J. P., Debruyne, F. M., Kiemeney, L. A., Bemelmans, B. L. Correlation between quality of life and voiding variables in patients treated with percutaneous tibial nerve stimulation. BJU Int. 2006 Jan; 97: 113-6

127510 Van der Weide, M. J., Cornelissen, E. A., Van Achterberg, T., de Gier, R. P., Feitz, W. F. Lower urinary tract symptoms after renal transplantation in children. J Urol. 2006 Jan; 175: 297-302; discussion 302

126420 Van der Weide, M. J., Cornelissen, E. A., Van Achterberg, T., Smits, J. P., Feitz, W. F. Dysfunction of lower urinary tract in renal transplant children with nephrologic disease. Urology. 2006 May; 67: 1060-5; didcussion 1065

132150 van der Weide, M. J., Hilbrands, L. B., Bemelmans, B. L., Kiemeney, L. A. Lower urinary tract symptoms after renal transplantation: are there changes over time?. Urology. 2004 Mar; 63: 442-6

137430 van der Weide, M. J., Hilbrands, L. B., Bemelmans, B. L., Meuleman, E. J., Frederiks, C. M. Lower urinary tract symptoms after renal transplantation. J Urol. 2001 Oct; 166: 1237-41

135020 van Dijk, L., Kooij, D. G., Schellevis, F. G. Nocturia in the Dutch adult population. BJU Int. 2002 Nov; 90: 644-8

131730 van Dijk, L., Kooij, D. G., Schellevis, F. G., Kaptein, A. A., Boon, T. A., Wooning, M. Nocturia: impact on quality of life in a Dutch adult population. BJU Int. 2004 May; 93: 1001-4

123710 van Dijk, M. M., de la Rosette, J. J., Michel, M. C. Effects of alpha(1)-adrenoceptor antagonists on male sexual function. Drugs. 2006; 66: 287-301

128150 van Dijk, M. M., Mochtar, C. A., Wijkstra, H., Laguna, M. P., de la Rosette, J. J. Hourglass-shaped nitinol prostatic stent in treatment of patients with lower urinary tract symptoms due to bladder outlet obstruction. Urology. 2005 Oct; 66: 845-9

127380 van Dijk, M. M., Mochtar, C. A., Wijkstra, H., Laguna, M. P., de la Rosette, J. J. The bell-shaped nitinol prostatic stent in the treatment of lower urinary tract symptoms: experience in 108 patients. Eur Urol. 2006 Feb; 49: 353-9

130400 van Dijk, M., Skrekas, T., de la Rosette, J. J. The association between lower urinary tract symptoms and sexual dysfunction: fact or fiction?. Curr Opin Urol. 2005 Jan; 15: 39-44

130780 van Eijken, M., Wensing, M., de Konink, M., Vernooy, M., Zielhuis, G., Lagro, T., Rikkert, M. O., Grol, R. Health education on self-management and seeking health care in older adults: a randomised trial. Patient Educ Couns. 2004 Oct; 55: 48-54

155750 Van Hoeck, K. J., Bael, A., Van Dessel, E., Van Renthergem, D., Bernaerts, K., Vandermaelen, V., Lax, H., Hirche, H. and van Gool, J. D. Do holding exercises or antimuscarinics increase maximum voided volume in monosymptomatic nocturnal enuresis? A randomized controlled trial in children. J Urol. 2007; 178: 2132-6

114990 van Kerrebroec, P., Jardin, A., van Cangh, P., Laval, K. U. Long-term safety and efficacy of a once-daily formulation of alfuzosin 10 mg in patients with symptomatic benign prostatic hyperplasia: open-label extension study. Eur Urol. 2002 Jan; 41: 54-60; discussion 60-1

122330 van Kerrebroeck, P., Jardin, A., Laval, K. U., van Cangh, P. Efficacy and safety of a new prolonged release formulation of alfuzosin 10 mg once daily versus alfuzosin 2.5 mg thrice daily and placebo in patients with symptomatic benign prostatic hyperplasia. ALFORTI Study Group. Eur Urol. 2000 Mar; 37: 306-13

123480 van Leeuwen, J. H., Castro, R., Busse, M., Bemelmans, B. L. The placebo effect in the pharmacologic treatment of patients with lower urinary tract symptoms. Eur Urol. 2006 Sep; 50: 440-52; discussion 453

117360 van Melick, H. H., Gisolf, K. W., Eckhardt, M. D., van Venrooij, G. E., Boon, T. A. One 24-hour frequency-volume chart in a woman with objective urinary motor urge incontinence is sufficient. Urology. 2001 Aug; 58: 188-92

109790 van Melick, H. H., van Venrooij, G. E., Boon, T. A. Laser prostatectomy in patients on anticoagulant therapy or with bleeding disorders. J Urol. 2003 Nov; 170: 1851-5

108960 van Melick, H. H., van Venrooij, G. E., Boon, T. A. Long-term follow-up after transurethral resection of the prostate, contact laser prostatectomy, and electrovaporization. Urology. 2003 Dec; 62: 1029-34

111840 van Melick, H. H., van Venrooij, G. E., Eckhardt, M. D., Boon, T. A. A randomized controlled trial comparing transurethral resection of the prostate, contact laser prostatectomy and electrovaporization in men with benign prostatic hyperplasia: analysis of subjective changes, morbidity and mortality. J Urol. 2003 Apr; 169: 1411-6

113870 Van Melick, H. H., Van Venrooij, G. E., Eckhardt, M. D., Boon, T. A. A randomized controlled trial comparing transurethral resection of the prostate, contact laser prostatectomy and electrovaporization in men with benign prostatic hyperplasia: urodynamic effects. J Urol. 2002 Sep; 168: 1058-62

107320 van Melick, H. H., van Venrooij, G. E., van Swol, C. F., Boon, T. A. Cost aspects of transurethral resection of the prostate, contact laser prostatectomy, and electrovaporization. Urology. 2004 May; 63: 882-6

129920 van Moorselaar, R. J., Hartung, R., Emberton, M., Harving, N., Matzkin, H., Elhilali, M., Alcaraz, A., Vallancien, G. Alfuzosin 10 mg once daily improves sexual function in men with lower urinary tract symptoms and concomitant sexual dysfunction. BJU Int. 2005 Mar; 95: 603-8

126260 van Odijk, J., Peterson, C. G., Ahlstedt, S., Bengtsson, U., Borres, M. P., Hulthen, L., Magnusson, J., Hansson, T. Measurements of eosinophil activation before and after food challenges in adults with food hypersensitivity. Int Arch Allergy Immunol. 2006; 140: 334-41

154900 van Renterghem, K., Van Koeveringe, G. and Van Kerrebroeck, P. Rising PSA in patients with minor LUTS without evidence of prostatic carcinoma: a missing link?. Int Urol Nephrol. 2007; 39: 1107-13

153960 van Renterghem, K., Van Koeveringe, G., Achten, R. and Van Kerrebroeck, P. Clinical relevance of transurethral resection of the prostate in "asymptomatic" patients with an elevated prostate-specific antigen level. Eur Urol. 2007; 52: 819-26

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

161890 van Schaik, P., Ahmed, T., Suvakovic, N., Hindmarsh, J. R. Effect of an educational multimedia prostate program on the International Prostate Symptom Score. Eur Urol. 1999; 36: 36-9

113590 Van Venrooij, G. E., Eckhardt, M. D., Boon, T. A. Data from frequency-volume charts versus maximum free flow rate, residual volume, and voiding cystometric estimated urethral obstruction grade and detrusor contractility grade in men with lower urinary tract symptoms suggestive of benign prostatic hyperpl. Neurourol Urodyn. 2002; 21: 450-6

107970 van Venrooij, G. E., Eckhardt, M. D., Boon, T. A. Noninvasive assessment of prostatic obstruction in elderly men with lower urinary tract symptoms associated with benign prostatic hyperplasia. Urology. 2004 Mar; 63: 476-80

115730 van Venrooij, G. E., Eckhardt, M. D., Gisolf, K. W., Boon, T. A. Data from frequency-volume charts versus filling cystometric estimated capacities and prevalence of instability in men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. Neurourol Urodyn. 2002; 21: 106-11

119320 van Venrooij, G. E., Eckhardt, M. D., Gisolf, K. W., Boon, T. A. Data from frequency-volume charts versus symptom scores and quality of life score in men with lower urinary tract symptoms due to benign prostatic hyperplasia. Eur Urol. 2001 Jan; 39: 42-7

109720 van Venrooij, G. E., van Melick, H. H., Boon, T. A. Comparison of outcomes of transurethral prostate resection in urodynamicallyobstructed versus selected urodynamicallyunobstructed or equivocal men. Urology. 2003 Oct; 62: 672-6

114210 Van Venrooij, G. E., Van Melick, H. H., Eckhardt, M. D., Boon, T. A. Correlations of urodynamic changes with changes in symptoms and well-being after transurethral resection of the prostate. J Urol. 2002 Aug; 168: 605-9

127460 van Voskuilen, A. C., Oerlemans, D. J., Weil, E. H., de Bie, R. A., van Kerrebroeck, P. E. Long term results of neuromodulation by sacral nerve stimulation for lower urinary tract symptoms: a retrospective single center study. Eur Urol. 2006 Feb; 49: 366-72

163670 Vanbilloen, H. P., Cleynhens, B. J., Verbruggen, A. M. Synthesis and biological evaluation of the four isomers of technetium-99m labeled ethylenecysteamine cysteine ((99m)Tc-ECC), the mono-acid derivative of (99m)tc-L,L-ethylenedicysteine. Nucl Med Biol. 2000 Feb; 27: 207-14

165480 Vande Walle, J. G., Donckerwolcke, R. A., Koomans, H. A. Pathophysiology of edema formation in children with nephrotic syndrome not due to minimal change disease. J Am Soc Nephrol. 1999 Feb; 10: 323-31

152340 Vanderbrink, B. A., Rastinehad, A. R. and Badlani, G. H. Prostatic stents for the treatment of benign prostatic hyperplasia. Curr Opin Urol. 2007; 17: 1-6

106340 Varkarakis, I., Kyriakakis, Z., Delis, A., Protogerou, V., Deliveliotis, C. Long-term results of open transvesical prostatectomy from a contemporary series of patients. Urology. 2004 Aug; 64: 306-10

109170 Vartsky, D., Shilstein, S., Bercovich, A., Huszar, M., Breskin, A., Chechik, R., Korotinsky, S., Malnick, S. D., Moriel, E. Prostatic zinc and prostate specific antigen: an experimental evaluation of their combined diagnostic value. J Urol. 2003 Dec; 170: 2258-62

103680 Vasoo, S., Chin, C. M., Tambyah, P. A. Methicillin-resistant Staphylococcus aureus endocarditis after transurethral prostatic resection. Urology. 2005 Mar; 65: 592

136960 Vassiliu, P., Velmahos, G. C., Toutouzas, K. G. Timing, safety, and efficacy of thoracoscopic evacuation of undrained post-traumatic hemothorax. Am Surg. 2001 Dec; 67: 1165-9

164850 Vates, T. S., Shull, M. J., Underberg-Davis, S. J., Fleisher, M. H. Complications of voiding cystourethrography in the evaluation of infants with prenatally detected hydronephrosis. J Urol. 1999 Sep; 162: 1221-3

112980 Vaughan, D., Imperato-McGinley, J., McConnell, J., Matsumoto, A. M., Bracken, B., Roy, J., Sullivan, M., Pappas, F., Cook, T., Daurio, C., Meehan, A., Stoner, E., Waldstreicher, J. Long-term (7 to 8-year) experience with finasteride in men with benign prostatic hyperplasia. Urology. 2002 Dec; 60: 1040-4

108770 Vaughan, E. D. , Jr. Medical management of benign prostatic hyperplasia--are two drugs better than one?. N Engl J Med. 2003 Dec 18; 349: 2449-51

136490 Veering, B. T., Immink-Speet, T. T., Burm, A. G., Stienstra, R., van Kleef, J. W. Spinal anaesthesia with 0.5% hyperbaric bupivacaine in elderly patients: effects of duration spent in the sitting position. Br J Anaesth. 2001 Nov; 87: 738-42

138030 Vega-P, J. M., Pascual, L. A. High-pressure bladder: an underlying factor mediating renal damage in the absence of reflux?. BJU Int. 2001 Apr; 87: 581-4

140620 Vela Navarrete, R., Gabriel, R., Barajas, R., Ausin, I. [Prostatic benign hypertrophy: review of effectiveness, tolerance, and impact on quality of life of prolonged treatment with alfuzosin]. Actas Urol Esp. 2000 Feb; 24: 120-30

121300 Vela-Navarrete, R., Alfaro, V., Badiella, L. L., Fernandez-Hernando, N. Age-stratified analysis of I-PSS and QoL values in spanish patients with symptoms potentially related to BPH. Eur Urol. 2000 Aug; 38: 199-207

104540 Vela-Navarrete, R., Escribano-Burgos, M., Farre, A. L., Garcia-Cardoso, J., Manzarbeitia, F., Carrasco, C. Serenoa repens treatment modifies bax/bcl-2 index expression and caspase-3 activity in prostatic tissue from patients with benign prostatic hyperplasia. J Urol. 2005 Feb; 173: 507-10

100760 Vela-Navarrete, R., Gonzalez-Enguita, C., Garcia-Cardoso, J. V., Manzarbeitia, F., Sarasa-Corral, J. L., Granizo, J. J. The impact of medical therapy on surgery for benign prostatic hyperplasia: a study comparing changes in a decade (1992-2002). BJU Int. 2005 Nov; 96: 1045-8

113140 Velasco, A., Albert, P. S., Rosenberg, H., Martinez, C., Leach, F. S. Clinicopathologic implications of hMSH2 gene expression and microsatellite instability in prostate cancer. Cancer Biol Ther. 2002 Jul-Aug; 1: 362-7

115750 Velasco, A., Hewitt, S. M., Albert, P. S., Hossein, M., Rosenberg, H., Martinez, C., Sagalowsky, A. I., McConnell, J. D., Marston, W., Leach, F. S. Differential expression of the mismatch repair gene hMSH2 in malignant prostate tissue is associated with cancer recurrence. Cancer. 2002 Feb 1; 94: 690-9

113370 Veltri, R. W., Marks, L. S., Miller, M. C., Bales, W. D., Fan, J., Macairan, M. L., Epstein, J. I., Partin, A. W. Saw palmetto alters nuclear measurements reflecting DNA content in men with symptomatic BPH: evidence for a possible molecular mechanism. Urology. 2002 Oct; 60: 617-22

104100 Veneziano, S., Pavlica, P., Compagnone, G., Martorana, G. Usefulness of the (F/T)/PSA density ratio to detect prostate cancer. Urol Int. 2005; 74: 13-8

113840 Ventura, S., Pennefather, J., Mitchelson, F. Cholinergic innervation and function in the prostate gland. Pharmacol Ther. 2002 Apr-May; 94: 93-112

107800 Verhamme, K. M., Bosch, R. J., Sturkenboom, M. C. Finasteride in benign prostatic hyperplasia. N Engl J Med. 2004 Mar 25; 350: 1359-61; author reply 1359-61

109660 Verhamme, K. M., Dieleman, J. P., Bleumink, G. S., Bosch, J. L., Stricker, B. H., Sturkenboom, M. C. Treatment strategies, patterns of drug use and treatment discontinuation in men with LUTS suggestive of benign prostatic hyperplasia: the Triumph project. Eur Urol. 2003 Nov; 44: 539-45

113450 Verhamme, K. M., Dieleman, J. P., Bleumink, G. S., van der Lei, J., Sturkenboom, M. C., Artibani, W., Begaud, B., Berges, R., Borkowski, A., Chappel, C. R., Costello, A., Dobronski, P., Farmer, R. D., Jimenez Cruz, F., Jonas, U., MacRae, K. Incidence and prevalence of lower urinary tract symptoms suggestive of benign prostatic hyperplasia in primary care--the Triumph project. Eur Urol. 2002 Oct; 42: 323-8

129700 Verhamme, K. M., Dieleman, J. P., van Wijk, M. A., Bosch, J. L., Stricker, B. H., Sturkenboom, M. C. Low incidence of acute urinary retention in the general male population: the triumph project. Eur Urol. 2005 Apr; 47: 494-8

139350 Verswijvel, G., Eerens, I., Messiaen, T., Oyen, R. Granulomatous renal pseudotumor in Wegener's granulomatosis: imaging findings in one case. Eur Radiol. 2000; 10: 1265-7

110180 Vesely, S., Knutson, T., Damber, J. E., Dicuio, M., Dahlstrand, C. Relationship between age, prostate volume, prostate-specific antigen, symptom score and uroflowmetry in men with lower urinary tract symptoms. Scand J Urol Nephrol. 2003; 37: 322-8

128850 Vesely, S., Knutson, T., Dicuio, M., Damber, J. E., Dahlstrand, C. Transurethral microwave thermotherapy: clinical results after 11 years of use. J Endourol. 2005 Jul-Aug; 19: 730-3

133700 Vesely, S., Knutson, T., Fall, M., Damber, J. E., Dahlstrand, C. Clinical diagnosis of bladder outlet obstruction in men with lower urinary tract symptoms: reliability of commonly measured parameters and the role of idiopathic detrusor overactivity. Neurourol Urodyn. 2003; 22: 301-5

150470 Vesole, D. H., Perez, W. S., Akasheh, M., Boudreau, C., Reece, D. E. and Bredeson, C. N. High-dose therapy and autologous hematopoietic stem cell transplantation for patients with primary systemic amyloidosis: a Center for International Blood and Marrow Transplant Research Study. Mayo Clin Proc. 2006; 81: 880-8

133200 Vestergaard, P., Mosekilde, L. Cohort study on effects of parathyroid surgery on multiple outcomes in primary hyperparathyroidism. BMJ. 2003 Sep 6; 327: 530-4

108460 Vicentini, C., Gravina, G. L., Angelucci, A., Pascale, E., D'Ambrosio, E., Muzi, P., Di Leonardo, G., Fileni, A., Tubaro, A., Festuccia, C., Bologna, M. Detection of telomerase activity in prostate massage samples improves differentiating prostate cancer from benign prostatic hyperplasia. J Cancer Res Clin Oncol. 2004 Apr; 130: 217-21

113760 Viglione, M. P., Potter, S., Partin, A. W., Lesniak, M. S., Epstein, J. I. Should the diagnosis of benign prostatic hyperplasia be made on prostate needle biopsy?. Hum Pathol. 2002 Aug; 33: 796-800

165530 Vijayan, A., Franklin, S. C., Behrend, T., Hammerman, M. R., Miller, S. B. Insulin-like growth factor I improves renal function in patients with end-stage chronic renal failure. Am J Physiol. 1999 Apr; 276: R929-34

119800 Villeponteau, B., Cockrell, R., Feng, J. Nutraceutical interventions may delay aging and the age-related diseases. Exp Gerontol. 2000 Dec; 35: 1405-17

128570 Vishwajeet, S., Aneesh, S. Water intoxication leading to hyponatremia and seizures: a rare complication of uroflowmetry. Int Urol Nephrol. 2005; 37: 275-6

111760 Visser, A., van Andel, G., Willems, P., Voogt, E., Dijkstra, A., Rovers, P., Goodkin, K., Kurth, K. H. Changes in health-related quality of life of men with prostate cancer 3 months after diagnosis: the role of psychosocial factors and comparisment with benign prostate hyperplasia patients. Patient Educ Couns. 2003 Mar; 49: 225-32

153350 Viswaroop, B., Gopalakrishnan, G., Nath, V. and Kekre, N. S. Role of imaging in predicting salvageability of kidneys in urinary tract tuberculosis. J Pak Med Assoc. 2006; 56: 587-90

117410 Vitalone, A., Bordi, F., Baldazzi, C., Mazzanti, G., Saso, L., Tita, B. Anti-proliferative effect on a prostatic epithelial cell line (PZ-HPV-7) by Epilobium angustifolium L. Farmaco. 2001 May-Jul; 56: 483-9

110700 Vitalone, A., Guizzetti, M., Costa, L. G., Tita, B. Extracts of various species of Epilobium inhibit proliferation of human prostate cells. J Pharm Pharmacol. 2003 May; 55: 683-90

110240 Vitalone, A., McColl, J., Thome, D., Costa, L. G., Tita, B. Characterization of the effect of Epilobium extracts on human cell proliferation. Pharmacology. 2003 Oct; 69: 79-87

154540 Vitvitsky, V., Prudova, A., Stabler, S., Dayal, S., Lentz, S. R. and Banerjee, R. Testosterone regulation of renal cystathionine beta-synthase: implications for sex-dependent differences in plasma homocysteine levels. Am J Physiol Renal Physiol. 2007; 293: F594-600

134580 Vlajkovic, M., Ilic, S., Bogicevic, M., Rajic, M., Ristic, L., Petronijevic, V., Golubovic, E., Stefanovic, V., Artiko, V. Radionuclide voiding patterns in children with vesicoureteral reflux. Eur J Nucl Med Mol Imaging. 2003 Apr; 30: 532-7

124260 Volkan, T., Ihsan, T. A., Yilmaz, O., Emin, O., Selcuk, S., Koray, K., Bedi, O. Short term outcomes of high power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate. Eur Urol. 2005 Oct; 48: 608-13

128910 Volkmer, B. G., Seidl-Schlick, E. M., Bach, D., Romics, I., Kleinschmidt, K. Cyclophosphamide is contraindicated in patients with a history of transitional cell carcinoma. Clin Rheumatol. 2005 Aug; 24: 319-23

136900 Volmar, K. E., Fritsch, M. K., Perlman, E. J., Hutchins, G. M. Patterns of congenital lower urinary tract obstructive uropathy: relation to abnormal prostate and bladder development and the prune belly syndrome. Pediatr Dev Pathol. 2001 Sep-Oct; 4: 467-72

134360 Volmar, K. E., Nguyen, T. C., Holcroft, C. J., Blakemore, K. J., Hutchins, G. M. Phimosis as a cause of the prune belly syndrome: comparison to a more common pattern of proximal penile urethra obstruction. Virchows Arch. 2003 Feb; 442: 169-72

119580 Volpe, M. A., Fromer, D., Kaplan, S. A. Holmium and interstitial lasers for the treatment of benign prostatic hyperplasia: a laser revival. Curr Opin Urol. 2001 Jan; 11: 43-8

119660 Wada, S., Yoshimura, R., Kyo, M., Hase, T., Masuda, C., Watanabe, Y., Ikemoto, S., Kawashima, H., Kishimoto, T. Comparative study of transurethral laser prostatectomy versus transurethral electroresection for benign prostatic hyperplasia. Int J Urol. 2000 Oct; 7: 373-7

118790 Wada, S., Yoshimura, R., Masuda, C., Hase, T., Ikemoto, S., Kishimoto, T., Fukushima, S. Are tobacco use and urine pH indicated as risk factors for bladder carcinoma?. Int J Urol. 2001 Mar; 8: 106-9

125150 Wada, Y., Ando, Y., Kai, N., Takahashi, W., Kikukawa, H., Nakanishi, J., Honda, J., Jinnouchi, Y., Ueda, S. Lower urinary tract dysfunction in type 1 familial amyloidotic polyneuropathy in Kumamoto, Japan. Int J Urol. 2006 Dec; 13: 1475-8

153950 Wadei, H. M., Amer, H., Taler, S. J., Cosio, F. G., Griffin, M. D., Grande, J. P., Larson, T. S., Schwab, T. R., Stegall, M. D. and Textor, S. C. Diurnal blood pressure changes one year after kidney transplantation: relationship to allograft function, histology, and resistive index. J Am Soc Nephrol. 2007; 18: 1607-15

125070 Wadie, B. S., Badawi, A. M., Abdelwahed, M., Elemabay, S. M. Application of artificial neural network in prediction of bladder outlet obstruction: a model based on objective, noninvasive parameters. Urology. 2006 Dec; 68: 1211-4

138620 Wadie, B. S., Badawi, A. M., Ghoneim, M. A. The relationship of the International Prostate Symptom Score and objective parameters for diagnosing bladder outlet obstruction. Part II: the potential usefulness of artificial neural networks. J Urol. 2001 Jan; 165: 35-7

114770 Wadie, B. S., Ebrahim, el-HE, Gomha, M. A. The relationship of detrusor instability and symptoms with objective parameters used for diagnosing bladder outlet obstruction: a prospective study. J Urol. 2002 Jul; 168: 132-4

109480 Wadie, B. S., Shehab El-Dein, A. B., Mohamed, A. M., Elhalwagy, S. M., Ghoneim, M. A. Short-term results of rotoresection for benign prostatic hyperplasia: a prospective study of safety and efficacy. BJU Int. 2003 Nov; 92: 710-2

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

101260 Wadie, B. S., Shehab El-Dein, A. B., Mosbah, A., Elhalwagy, S. M., Ghoneim, M. A. A 2-year follow-up after rotoresection of the prostate: a prospective study. BJU Int. 2005 Oct; 96: 828-30

107940 Wadsworth, T. L., Carroll, J. M., Mallinson, R. A., Roberts, C. T. , Jr., Roselli, C. E. Saw palmetto extract suppresses insulin-like growth factor-I signaling and induces stress-activated protein kinase/c-Jun N-terminal kinase phosphorylation in human prostate epithelial cells. Endocrinology. 2004 Jul; 145: 3205-14

125180 Wagenlehner, F. M., Kinzig-Schippers, M., Sorgel, F., Weidner, W., Naber, K. G. Concentrations in plasma, urinary excretion and bactericidal activity of levofloxacin (500 mg) versus ciprofloxacin (500 mg) in healthy volunteers receiving a single oral dose. Int J Antimicrob Agents. 2006 Dec; 28: 551-9

152290 Wagenlehner, F. M., Lunz, J. C., Kees, F., Wieland, W. and Naber, K. G. Serum and prostatic tissue concentrations of moxifloxacin in patients undergoing transurethral resection of the prostate. J Chemother. 2006; 18: 485-9

139920 Wagner, J. R., Russo, P. Urologic complications of major pelvic surgery. Semin Surg Oncol. 2000 Apr-May; 18: 216-28

165620 Wagner, J., Gehlen, F., Ciechanowicz, A., Ritz, E. Angiotensin II receptor type 1 gene expression in human glomerulonephritis and diabetes mellitus. J Am Soc Nephrol. 1999 Mar; 10: 545-51

114160 Wagrell, L., Schelin, S., Nordling, J., Richthoff, J., Magnusson, B., Schain, M., Larson, T., Boyle, E., Duelund, J., Kroyer, K., Ageheim, H., Mattiasson, A. Feedback microwave thermotherapy versus TURP for clinical BPH--a randomized controlled multicenter study. Urology. 2002 Aug; 60: 292-9

105520 Wagrell, L., Schelin, S., Nordling, J., Richthoff, J., Magnusson, B., Schain, M., Larson, T., Boyle, E., Duelund, J., Kroyer, K., Ageheim, H., Mattiasson, A. Three-year follow-up of feedback microwave thermotherapy versus TURP for clinical BPH: a prospective randomized multicenter study. Urology. 2004 Oct; 64: 698-702

119950 Wagrell, L., Schelin, T., Bolmsjo, M. B., Mattiasson, A. Aspects on transurethral microwave thermotherapy of benign prostatic hyperplasia. Tech Urol. 2000 Dec; 6: 251-5

101060 Wagrell, L., Sundin, A., Norlen, B. Intraprostatic blood-flow changes during ProstaLund feedback treatment measured by positron emission tomography. J Endourol. 2005 Sep; 19: 873-7

155260 Waihenya, C. G. and Mungai, P. N. Management of transitional cell carcinoma of the urinary bladder at Kenyatta National Hospital, Nairobi. East Afr Med J. 2006; 83: 679-83

163940 Waites, K. B., Canupp, K. C., Brookings, E. S., DeVivo, M. J. Effect of oral ciprofloxacin on bacterial flora of perineum, urethra, and lower urinary tract in men with spinal cord injury. J Spinal Cord Med. 1999 Fall; 22: 192-8

128430 Wald, H., Epstein, A., Kramer, A. Extended use of indwelling urinary catheters in postoperative hip fracture patients. Med Care. 2005 Oct; 43: 1009-17

136400 Wald, M., Halachmi, S., Amiel, G., Madjar, S., Mullerad, M., Miselevitz, I., Moskovitz, B., Nativ, O. Bladder tumor antigen stat test in non-urothelial malignant urologic conditions. Isr Med Assoc J. 2002 Mar; 4: 174-5

164610 Waldhoer, M., Wise, A., Milligan, G., Freissmuth, M., Nanoff, C. Kinetics of ternary complex formation with fusion proteins composed of the A(1)-adenosine receptor and G protein alpha-subunits. J Biol Chem. 1999 Oct 22; 274: 30571-9

119240 Walker, R. M., Romano, G., Davies, A. H., Theodorou, N. A., Springall, R. G., Carter, S. S. Pressure flow study data in a group of asymptomatic male control patients 45 years old or older. J Urol. 2001 Feb; 165: 683-7

160660 Walker-Daniels, J., Coffman, K., Azimi, M., Rhim, J. S., Bostwick, D. G., Snyder, P., Kerns, B. J., Waters, D. J., Kinch, M. S. Overexpression of the EphA2 tyrosine kinase in prostate cancer. Prostate. 1999 Dec 1; 41: 275-80

105990 Walmsley, K., Kaplan, S. A. Transurethral microwave thermotherapy for benign prostate hyperplasia: separating truth from marketing hype. J Urol. 2004 Oct; 172: 1249-55

112710 Walsh, K., Sriprasad, S., Hopster, D., Codd, J., Mulvin, D. Distribution of vascular endothelial growth factor (VEGF) in prostate disease. Prostate Cancer Prostatic Dis. 2002; 5: 119-22

111180 Wan, X. S., Xu, Y. A., Ware, J. H., Kennedy, A. R. Three immunoassays based on monoclonal antibodies specific for prostate specific antigen (PSA), alpha-1-antichymotrypsin (ACT), and the PSA-ACT complex. Prostate. 2003 Jul 1; 56: 131-41

109750 Wan, X. S., Zhou, Z., Kennedy, A. R., Kopelovich, L. In vitro evaluation of chemopreventive agents using cultured human prostate epithelial cells. Oncol Rep. 2003 Nov-Dec; 10: 2009-14

128800 Wananukul, S., Nuchprayoon, I., Siripanich, H. Mucocutaneous findings in febrile neutropenic children with acute leukemias. J Med Assoc Thai. 2005 Jun; 88: 817-23

134100 Wang, C. C., Yang, S. S., Chen, Y. T., Hsieh, J. H. Videourodynamics identifies the causes of young men with lower urinary tract symptoms and low uroflow. Eur Urol. 2003 Apr; 43: 386-90

161410 Wang, C. Y., Debiec-Rychter, M., Schut, H. A., Morse, P., Jones, R. F., Archer, C., King, C. M., Haas, G. P. N-Acetyltransferase expression and DNA binding of N-hydroxyheterocyclic amines in human prostate epithelium. Carcinogenesis. 1999 Aug; 20: 1591-5

112380 Wang, C. Y., Jones, R. F., Debiec-Rychter, M., Soos, G., Haas, G. P. Correlation of the genotypes for N-acetyltransferases 1 and 2 with double bladder and prostate cancers in a case-comparison study. Anticancer Res. 2002 Nov-Dec; 22: 3529-35

151680 Wang, C. Y., Shi, J. D., Yan, C. H., Wu, Q., Klocker, H., Park, I., Lee, C. and Zhang, J. Development of a cell-isolation method for human prostatic smooth muscle cells based on cell type-specific activation of the SM22 gene promoter. BJU Int. 2007; 99: 183-8

113990 Wang, C., McCarty, I. M., Balazs, L., Li, Y., Steiner, M. S. A prostate-derived cDNA that is mapped to human chromosome 19 encodes a novel protein. Biochem Biophys Res Commun. 2002 Aug 16; 296: 281-7

114640 Wang, C., McCarty, I. M., Balazs, L., Li, Y., Steiner, M. S. Immunohistological detection of BRAF25 in human prostate tumor and cancer specimens. Biochem Biophys Res Commun. 2002 Jul 5; 295: 136-41

157220 Wang, G., Lai, F. M., Lai, K. B., Chow, K. M., Kwan, B. C., Li, P. K. and Szeto, C. C. Urinary messenger RNA expression of podocyte-associated molecules in patients with diabetic nephropathy treated by angiotensin-converting enzyme inhibitor and angiotensin receptor blocker. Eur J Endocrinol. 2008; 158: 317-22

129630 Wang, H. J., Chiang, P. H., Peng, J. P., Yu, T. J. Presentation of prostate carcinoma with cervical lymphadenopathy: report of three cases. Chang Gung Med J. 2004 Nov; 27: 840-4

113960 Wang, H. L., Humphrey, P. A. Exaggerated signet-ring cell change in stromal nodule of prostate: a pseudoneoplastic proliferation. Am J Surg Pathol. 2002 Aug; 26: 1066-70

109080 Wang, L. Z., Sato, K., Tsuchiya, N., Yu, J. G., Ohyama, C., Satoh, S., Habuchi, T., Ogawa, O., Kato, T. Polymorphisms in prostate-specific antigen (PSA) gene, risk of prostate cancer, and serum PSA levels in Japanese population. Cancer Lett. 2003 Dec 8; 202: 53-9

110340 Wang, L., Habuchi, T., Tsuchiya, N., Mitsumori, K., Ohyama, C., Sato, K., Kinoshita, H., Kamoto, T., Nakamura, A., Ogawa, O., Kato, T. Insulin-like growth factor-binding protein-3 gene -202 A/C polymorphism is correlated with advanced disease status in prostate cancer. Cancer Res. 2003 Aug 1; 63: 4407-11

103120 Wang, L., Mitoma, J., Tsuchiya, N., Narita, S., Horikawa, Y., Habuchi, T., Imai, A., Ishimura, H., Ohyama, C., Fukuda, M. An A/G polymorphism of core 2 branching enzyme gene is associated with prostate cancer. Biochem Biophys Res Commun. 2005 Jun 17; 331: 958-63

125400 Wang, Q. W., Wen, J. G., Song, D. K., Su, J., Che, Y. Y., Zhang, P., Du, A. M., Wang, D. X., Zhu, Q. H., Wei, J. X. Is it possible to use urodynamic variables to predict upper urinary tract dilatation in children with neurogenic bladder-sphincter dysfunction?. BJU Int. 2006 Dec; 98: 1295-300

126280 Wang, S. J., Lin, A. T. Re: A nomogram to classify men with lower urinary tract symptoms using urine flow and noninvasive measurement of bladder pressure. J Urol. 2006 Jul; 176: 411; author reply 411

121460 Wang, T. J., Slawin, K. M., Rittenhouse, H. G., Millar, L. S., Mikolajczyk, S. D. Benign prostatic hyperplasia-associated prostate-specific antigen (BPSA) shows unique immunoreactivity with anti-PSA monoclonal antibodies. Eur J Biochem. 2000 Jul; 267: 4040-5

106440 Wang, W., Bergh, A., Damber, J. E. Chronic inflammation in benign prostate hyperplasia is associated with focal upregulation of cyclooxygenase-2, Bcl-2, and cell proliferation in the glandular epithelium. Prostate. 2004 Sep 15; 61: 60-72

104300 Wang, Y., Revelo, M. P., Sudilovsky, D., Cao, M., Chen, W. G., Goetz, L., Xue, H., Sadar, M., Shappell, S. B., Cunha, G. R., Hayward, S. W. Development and characterization of efficient xenograft models for benign and malignant human prostate tissue. Prostate. 2005 Jul 1; 64: 149-59

150980 Wang, Y., Sun, G., Pan, J. G., Guo, Z. J. and Li, T. Performance of tPSA and f/tPSA for prostate cancer in Chinese. A systematic review and meta-analysis. Prostate Cancer Prostatic Dis. 2006; 9: 374-8

104350 Wareing, M. Lower urinary tract symptoms: a hermeneutic phenomenological study into men's lived experience. J Clin Nurs. 2005 Feb; 14: 239-46

111990 Wareing, M. Physical examination and history-taking skills in a prostate clinic. Br J Nurs. 2003 Feb 13-26; 12: 169-75

161000 Wareing, M., Candler, S. Piloting day-case surgery for prostate resection. Prof Nurse. 1999 Aug; 14: 754-8

133610 Wasen, E., Isoaho, R., Mattila, K., Vahlberg, T., Kivela, S. L., Irjala, K. Serum cystatin C in the aged: relationships with health status. Am J Kidney Dis. 2003 Jul; 42: 36-43

151640 Wasserman, N. F. Benign prostatic hyperplasia: a review and ultrasound classification. Radiol Clin North Am. 2006; 44: 689-710, viii

120790 Wasson, J. H., Bubolz, T. A., Lu-Yao, G. L., Walker-Corkery, E., Hammond, C. S., Barry, M. J. Transurethral resection of the prostate among medicare beneficiaries: 1984 to 1997. For the Patient Outcomes Research Team for Prostatic Diseases. J Urol. 2000 Oct; 164: 1212-5

163900 Watanabe, G., Tomiyama, H., Doba, N. Effects of oral administration of L-arginine on renal function in patients with heart failure. J Hypertens. 2000 Feb; 18: 229-34

112180 Watanabe, M., Yamada, Y., Kato, H., Imai, H., Nakano, H., Araki, T., Shiraishi, T. Malignant phyllodes tumor of the prostate: retrospective review of specimens obtained by sequential transurethral resection. Pathol Int. 2002 Dec; 52: 777-83

114960 Watanabe, T., Miyagawa, I. New simple method of transabdominal ultrasound to assess the degree of benign prostatic obstruction: size and horizontal shape of the prostate. Int J Urol. 2002 Apr; 9: 204-9

121800 Watanabe, T., Miyagawa, I. Results of questionnaires regarding video recordings of benign prostatic obstruction by flexible cystourethroscopy responded to by urologists. Urol Int. 2000; 64: 93-8

105240 Watanabe, Y., Yokoyama, T., Ozawa, H., Nishiguchi, J., Nose, H., Kumon, H. Change in parameters before and after alpha-1-blocker therapy for men with lower urinary tract symptoms using color doppler ultrasound urodynamics: possible application for prediction of clinical outcome. Urol Int. 2004; 73: 252-7

121510 Waters, D. J., Shen, S., Glickman, L. T. Life expectancy, antagonistic pleiotropy, and the testis of dogs and men. Prostate. 2000 Jun 1; 43: 272-7

125000 Watson, V., Ryan, M., Brown, C. T., Barnett, G., Ellis, B. W., Emberton, M. Eliciting preferences for drug treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia. J Urol. 2004 Dec; 172: 2321-5

133080 Wazait, H. D., Al-Buheissi, S. Z., Dudderidge, T., Patel, H. R., Jarmulowicz, M., Pigott, K., Miller, R. A. Rare case of primary lymphoma of the prostate: giving the patient the benefit of the doubt. Urol Int. 2003; 71: 338-40

151310 Webber, R. Benign prostatic hyperplasia. Clin Evid. 2006; : 1213-26

105100 Webber, R. Benign prostatic hyperplasia. Clin Evid. 2003 Dec; : 977-93

104490 Webber, R. Benign prostatic hyperplasia. Clin Evid. 2004 Jun; : 1119-38

163550 Webster, R. I., Smith, G., Farnsworth, R. H., Rossleigh, M. A., Rosenberg, A. R., Kainer, G. Low incidence of new renal scars after ureteral reimplantation for vesicoureteral reflux in children: a prospective study. J Urol. 2000 Jun; 163: 1915-8

118280 Wechsel, H. W., Gleichmann, R., Blasseneck, J. The behavior of prostate specific antigen (PSA) and free-PSA (f-PSA) under antihormonal therapy. Anticancer Res. 2000 Nov-Dec; 20: 4993-4

164810 Wechsel, H. W., Petri, E., Bichler, K. H., Feil, G. Marker for renal cell carcinoma (RCC): the dimeric form of pyruvate kinase type M2 (Tu M2-PK). Anticancer Res. 1999 Jul-Aug; 19: 2583-90

160140 Weckermann, D., Maassen, C., Wawroschek, F., Harzmann, R. Improved discrimination of prostate cancer and benign prostatic hyperplasia by means of the quotient of free and total PSA. Int Urol Nephrol. 1999; 31: 351-9

115290 Wehbi, N. K., Dugger, A. L., Bonner, R. B., Pitha, J. V., Hurst, R. E., Hemstreet, G. P., 3rd Pan-cadherin as a high level phenotypic biomarker for prostate cancer. J Urol. 2002 May; 167: 2215-21

131190 Wehby, M. C., O'Hollaren, P. S., Abtin, K., Hume, J. L., Richards, B. J. Occult tight filum terminale syndrome: results of surgical untethering. Pediatr Neurosurg. 2004 Mar-Apr; 40: 51-7; discussion 58

126020 Wei, C. C., Peng, C. T., Chiang, I. P., Wu, K. H. Primary B cell non-hodgkin lymphoma of the penis in a child. J Pediatr Hematol Oncol. 2006 Jul; 28: 479-80

157010 Wei, H., Desouki, M. M., Lin, S., Xiao, D., Franklin, R. B. and Feng, P. Differential expression of metallothioneins (MTs) 1, 2, and 3 in response to zinc treatment in human prostate normal and malignant cells and tissues. Mol Cancer. 2008; 7: 7

103860 Wei, J. T., Calhoun, E., Jacobsen, S. J. Urologic diseases in America project: benign prostatic hyperplasia. J Urol. 2005 Apr; 173: 1256-61

118100 Wei, J. T., Schottenfeld, D., Cooper, K., Taylor, J. M., Faerber, G. J., Velarde, M. A., Bree, R., Montie, J. E., Cooney, K. A. The natural history of lower urinary tract symptoms in black American men: relationships with aging, prostate size, flow rate and bothersomeness. J Urol. 2001 May; 165: 1521-5

107090 Weichert, W., Schmidt, M., Gekeler, V., Denkert, C., Stephan, C., Jung, K., Loening, S., Dietel, M., Kristiansen, G. Polo-like kinase 1 is overexpressed in prostate cancer and linked to higher tumor grades. Prostate. 2004 Aug 1; 60: 240-5

100920 Wein, A. J. Prostate botulinum A toxin injection--an alternative treatment for benign prostatic obstruction in poor surgical candidates. J Urol. 2005 Nov; 174: 1903

134740 Wein, A. J., Rovner, E. S. Definition and epidemiology of overactive bladder. Urology. 2002 Nov; 60: 7-12; discussion 12

121730 Weinberger, M. H., Fawzy, A. Doxazosin in elderly patients with hypertension. Int J Clin Pract. 2000 Apr; 54: 181-9

109590 Weiner, D. M., Lowe, F. C. Alfuzosin for the management of benign prostate hyperplasia. Expert Opin Pharmacother. 2003 Nov; 4: 2057-63

121980 Weisman, K. M., Larijani, G. E., Goldstein, M. R., Goldberg, M. E. Relationship between benign prostatic hyperplasia and history of coronary artery disease in elderly men. Pharmacotherapy. 2000 Apr; 20: 383-6

134720 Weiss, J. P., Blaivas, J. G. Nocturnal polyuria versus overactive bladder in nocturia. Urology. 2002 Nov; 60: 28-32; discussion 32

164590 Weiss, J. P., Blaivas, J. G., Stember, D. S., Chaikin, D. C. Evaluation of the etiology of nocturia in men: the nocturia and nocturnal bladder capacity indices. Neurourol Urodyn. 1999; 18: 559-65

132250 Weiss, J. P., Blaivas, J. G., Tash Anger, J. A., Di Blasio, C. J., Panagopoulos, G., Gerboc, J. Development and validation of a new treatment outcome score for men with LUTS. Neurourol Urodyn. 2004; 23: 88-93

119210 Weisser, H., Ziemssen, T., Krieg, M. In vitro modulation of steroid 5alpha-reductase activity by phospholipases in epithelium and stroma of human benign prostatic hyperplasia. Steroids. 2001 Jun; 66: 521-8

116290 Weisser, H., Ziemssen, T., Krieg, M. Phospholipase A2 degradation products modulate epithelial and stromal 5alpha-reductase activity of human benign prostatic hyperplasia in vitro. Prostate. 2002 Jan 1; 50: 14-Apr

100500 Weisskopf, M., Schaffner, W., Jundt, G., Sulser, T., Wyler, S., Tullberg-Reinert, H. A Vitex agnus-castus extract inhibits cell growth and induces apoptosis in prostate epithelial cell lines. Planta Med. 2005 Oct; 71: 910-6

106970 Weiss-Messer, E., Merom, O., Adi, A., Karry, R., Bidosee, M., Ber, R., Kaploun, A., Stein, A., Barkey, R. J. Growth hormone (GH) receptors in prostate cancer: gene expression in human tissues and cell lines and characterization, GH signaling and androgen receptor regulation in LNCaP cells. Mol Cell Endocrinol. 2004 May 31; 220: 109-23

136680 Welch, G., Weinger, K., Barry, M. J. Quality-of-life impact of lower urinary tract symptom severity: results from the Health Professionals Follow-up Study. Urology. 2002 Feb; 59: 245-50

137360 Wen, J. G., Yeung, C. K., Chu, W. C., Shit, F. K., Metreweli, C. Video cystometry in young infants with renal dilation or a history of urinary tract infection. Urol Res. 2001 Aug; 29: 249-55

163570 Wendell-Smith, C. Terminology of the prostate and related structures. Clin Anat. 2000; 13: 207-13

127590 Weng, J., Brown, C. V., Rhee, P., Salim, A., Chan, L., Demetriades, D., Velmahos, G. C. White blood cell and platelet counts can be used to differentiate between infection and the normal response after splenectomy for trauma: prospective validation. J Trauma. 2005 Nov; 59: 1076-80

105420 Weng, J., Wang, J., Cai, Y., Stafford, L. J., Mitchell, D., Ittmann, M., Liu, M. Increased expression of prostate-specific G-protein-coupled receptor in human prostate intraepithelial neoplasia and prostate cancers. Int J Cancer. 2005 Feb 20; 113: 811-8

139830 Wennerstrom, M., Hansson, S., Jodal, U., Sixt, R., Stokland, E. Renal function 16 to 26 years after the first urinary tract infection in childhood. Arch Pediatr Adolesc Med. 2000 Apr; 154: 339-45

106230 Wertz, K., Siler, U., Goralczyk, R. Lycopene: modes of action to promote prostate health. Arch Biochem Biophys. 2004 Oct 1; 430: 127-34

139160 Wessel, L. M., Scholz, S., Jester, I., Arnold, R., Lorenz, C., Hosie, S., Wirth, H., Waag, K. L. Management of kidney injuries in children with blunt abdominal trauma. J Pediatr Surg. 2000 Sep; 35: 1326-30

111090 Wesseling, S., Stephan, C., Semjonow, A., Lein, M., Brux, B., Sinha, P., Loening, S. A., Jung, K. Determination of non-alpha1-antichymotrypsin-complexed prostate-specific antigen as an indirect measurement of free prostate-specific antigen: analytical performance and diagnostic accuracy. Clin Chem. 2003 Jun; 49: 887-94

111790 Wessells, H., Roy, J., Bannow, J., Grayhack, J., Matsumoto, A. M., Tenover, L., Herlihy, R., Fitch, W., Labasky, R., Auerbach, S., Parra, R., Rajfer, J., Culbertson, J., Lee, M., Bach, M. A., Waldstreicher, J. Incidence and severity of sexual adverse experiences in finasteride and placebo-treated men with benign prostatic hyperplasia. Urology. 2003 Mar; 61: 579-84

101900 Westney, O. L., Bevan-Thomas, R., Palmer, J. L., Cespedes, R. D., McGuire, E. J. Transurethral collagen injections for male intrinsic sphincter deficiency: the University of Texas-Houston experience. J Urol. 2005 Sep; 174: 994-7

140180 Westra, W. H., Grenko, R. T., Epstein, J. Solitary fibrous tumor of the lower urogenital tract: a report of five cases involving the seminal vesicles, urinary bladder, and prostate. Hum Pathol. 2000 Jan; 31: 63-8

151080 Whelton, A., Lefkowith, J. L., West, C. R. and Verburg, K. M. Cardiorenal effects of celecoxib as compared with the nonsteroidal anti-inflammatory drugs diclofenac and ibuprofen. Kidney Int. 2006; 70: 1495-502

103330 White, W. B., Moon, T. Treatment of benign prostatic hyperplasia in hypertensive men. J Clin Hypertens (Greenwich). 2005 Apr; 7: 212-7

117820 Whiting, D. A. Advances in the treatment of male androgenetic alopecia: a brief review of finasteride studies. Eur J Dermatol. 2001 Jul-Aug; 11: 332-4

114180 Whitlatch, L. W., Young, M. V., Schwartz, G. G., Flanagan, J. N., Burnstein, K. L., Lokeshwar, B. L., Rich, E. S., Holick, M. F., Chen, T. C. 25-Hydroxyvitamin D-1alpha-hydroxylase activity is diminished in human prostate cancer cells and is enhanced by gene transfer. J Steroid Biochem Mol Biol. 2002 Jun; 81: 135-40

105670 Whittington, K., Assinder, S., Gould, M., Nicholson, H. Oxytocin, oxytocin-associated neurophysin and the oxytocin receptor in the human prostate. Cell Tissue Res. 2004 Nov; 318: 375-82

154280 Whittington, K., Connors, B., King, K., Assinder, S., Hogarth, K. and Nicholson, H. The effect of oxytocin on cell proliferation in the human prostate is modulated by gonadal steroids: implications for benign prostatic hyperplasia and carcinoma of the prostate. Prostate. 2007; 67: 1132-42

113210 Wians, F. H. , Jr., Cheli, C. D., Balko, J. A., Bruzek, D. J., Chan, D. W., Sokoll, L. J. Evaluation of the clinical performance of equimolar- and skewed-response total prostate-specific antigen assays versus complexed and free PSA assays and their ratios in discriminating between benign prostatic hyperplasia and prostate cancer. Clin Chim Acta. 2002 Dec; 326: 81-95

112470 Wick, G., Berger, P., Jansen-Durr, P., Grubeck-Loebenstein, B. A Darwinian-evolutionary concept of age-related diseases. Exp Gerontol. 2003 Jan-Feb; 38: 13-25

165120 Wiesner, G., Vaz, M., Collier, G., Seals, D., Kaye, D., Jennings, G., Lambert, G., Wilkinson, D., Esler, M. Leptin is released from the human brain: influence of adiposity and gender. J Clin Endocrinol Metab. 1999 Jul; 84: 2270-4

163430 Wigfall, D. R., Ware, R. E., Burchinal, M. R., Kinney, T. R., Foreman, J. W. Prevalence and clinical correlates of glomerulopathy in children with sickle cell disease. J Pediatr. 2000 Jun; 136: 749-53

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

156210 Wijeysundera, D. N., Beattie, W. S., Rao, V., Granton, J. T. and Chan, C. T. N-acetylcysteine for preventing acute kidney injury in cardiac surgery patients with pre-existing moderate renal insufficiency. Can J Anaesth. 2007; 54: 872-81

104660 Wilkinson, K. Artificial urinary sphincters following radical prostatectomy. Nurs Times. 2004 Nov 30-Dec 6; 100: 48-50

110440 Willetts, K. E., Clements, M. S., Champion, S., Ehsman, S., Eden, J. A. Serenoa repens extract for benign prostate hyperplasia: a randomized controlled trial. BJU Int. 2003 Aug; 92: 267-70

130470 Williams, C. Impact of lower urinary tract symptoms on quality of life and sexual function. Prof Nurse. 2004 Nov; 20: 38-40

120910 Williams, J. A., Martin, F. L., Muir, G. H., Hewer, A., Grover, P. L., Phillips, D. H. Metabolic activation of carcinogens and expression of various cytochromes P450 in human prostate tissue. Carcinogenesis. 2000 Sep; 21: 1683-9

153480 Williams, S. A., Merchant, R. F., Garrett-Mayer, E., Isaacs, J. T., Buckley, J. T. and Denmeade, S. R. A prostate-specific antigen-activated channel-forming toxin as therapy for prostatic disease. J Natl Cancer Inst. 2007; 99: 376-85

156780 Williams, W., Sargeant, L. A., Smikle, M., Smith, R., Edwards, H. and Shah, D. The outcome of lupus nephritis in Jamaican patients. Am J Med Sci. 2007; 334: 426-30

122550 Willman, J. H., Holden, J. A. Immunohistochemical staining for DNA topoisomerase II-alpha in benign, premalignant, and malignant lesions of the prostate. Prostate. 2000 Mar 1; 42: 280-6

153590 Wilson, C. H., Asher, J. F., Gupta, A., Vijayanand, D., Wyrley-Birch, H., Stamp, S., Rix, D. A., Soomro, N., Manas, D. M., Jaques, B. C., Peaston, R. and Talbot, D. Comparison of HTK and hypertonic citrate to intraarterial cooling in human non-heart-beating kidney donors. Transplant Proc. 2007; 39: 351-2

105320 Wilson, J. R., Urwin, G. H., Stower, M. J. The changing practice of transurethral prostatectomy: a comparison of cases performed in 1990 and 2000. Ann R Coll Surg Engl. 2004 Nov; 86: 428-31

128050 Wilson, L., Ryan, J., Thelning, C., Masters, J., Tuckey, J. Is antibiotic prophylaxis required for flexible cystoscopy? A truncated randomized double-blind controlled trial. J Endourol. 2005 Oct; 19: 1006-8

122380 Wilson, M. J., Ruhland, A. R., Quast, B. J., Reddy, P. K., Ewing, S. L., Sinha, A. A. Dipeptidylpeptidase IV activities are elevated in prostate cancers and adjacent benign hyperplastic glands. J Androl. 2000 Mar-Apr; 21: 220-6

114680 Wilson, M. J., Sellers, R. G., Wiehr, C., Melamud, O., Pei, D., Peehl, D. M. Expression of matrix metalloproteinase-2 and -9 and their inhibitors, tissue inhibitor of metalloproteinase-1 and -2, in primary cultures of human prostatic stromal and epithelial cells. J Cell Physiol. 2002 May; 191: 208-16

130850 Wilson, N. M., Masoud, A. M., Barsoum, H. B., Refaat, M. M., Moustafa, M. I., Kamal, T. A. Correlation of power Doppler with microvessel density in assessing prostate needle biopsy. Clin Radiol. 2004 Oct; 59: 946-50

115120 Wilt, T. J. Treatment options for benign prostatic hyperplasia. BMJ. 2002 May 4; 324: 1047-8

156500 Wilt, T. J. and MacDonald, R. Doxazosin in the treatment of benign prostatic hypertrophy: an update. Clin Interv Aging. 2006; 1: 389-401

156980 Wilt, T. J. and N'Dow, J. Benign prostatic hyperplasia. Part 1--diagnosis. Bmj. 2008; 336: 146-9

157040 Wilt, T. J. and N'Dow, J. Benign prostatic hyperplasia. Part 2--management. Bmj. 2008; 336: 206-10

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

112590 Wilt, T. J., Howe, R. W., Rutks, I. R., MacDonald, R. Terazosin for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2002; : CD003851

115770 Wilt, T. J., Howe, W., MacDonald, R. Terazosin for treating symptomatic benign prostatic obstruction: a systematic review of efficacy and adverse effects. BJU Int. 2002 Feb; 89: 214-25

118650 Wilt, T. J., Ishani, A., Rutks, I., MacDonald, R. Phytotherapy for benign prostatic hyperplasia. Public Health Nutr. 2000 Dec; 3: 459-72

112520 Wilt, T. J., Mac Donald, R., Rutks, I. Tamsulosin for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2003; : CD002081

161820 Wilt, T. J., MacDonald, R., Ishani, A. beta-sitosterol for the treatment of benign prostatic hyperplasia: a systematic review. BJU Int. 1999 Jun; 83: 976-83

116590 Wilt, T. J., MacDonald, R., Nelson, D. Tamsulosin for treating lower urinary tract symptoms compatible with benign prostatic obstruction: a systematic review of efficacy and adverse effects. J Urol. 2002 Jan; 167: 177-83

114190 Wilt, T., Ishani, A., Mac Donald, R. Serenoa repens for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2002; : CD001423

115690 Wilt, T., Ishani, A., Mac Donald, R., Rutks, I., Stark, G. Pygeum africanum for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2002; : CD001044

121910 Wilt, T., Ishani, A., MacDonald, R., Stark, G., Mulrow, C., Lau, J. Beta-sitosterols for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2000; : CD001043

121900 Wilt, T., Ishani, A., Stark, G., MacDonald, R., Mulrow, C., Lau, J. Serenoa repens for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2000; : CD001423

121920 Wilt, T., Mac Donald, R., Ishani, A., Rutks, I., Stark, G. Cernilton for benign prostatic hyperplasia. Cochrane Database Syst Rev. 2000; : CD001042

128070 Winge, K., Friberg, L., Werdelin, L., Nielsen, K. K., Stimpel, H. Relationship between nigrostriatal dopaminergic degeneration, urinary symptoms, and bladder control in Parkinson's disease. Eur J Neurol. 2005 Nov; 12: 842-50

127540 Winge, K., Skau, A. M., Stimpel, H., Nielsen, K. K., Werdelin, L. Prevalence of bladder dysfunction in Parkinsons disease. Neurourol Urodyn. 2006; 25: 116-22

130900 Winge, K., Werdelin, L. M., Nielsen, K. K., Stimpel, H. Effects of dopaminergic treatment on bladder function in Parkinson's disease. Neurourol Urodyn. 2004; 23: 689-96

136890 Winiecka, W., Zoch-Zwierz, W., Wasilewska, A., Wiercinski, R., Tomaszewska, B., Korzeniecka-Kozerska, A., Porowski, T. Evaluation of bladder instability in children with recurrent urinary tract infections. Med Sci Monit. 2002 Jan; 8: CR19-23

155350 Winkelmayer, W. C., Charytan, D. M., Brookhart, M. A., Levin, R., Solomon, D. H. and Avorn, J. Kidney function and use of recommended medications after myocardial infarction in elderly patients. Clin J Am Soc Nephrol. 2006; 1: 796-801

133480 Winkens, R., Nelissen-Arets, H., Stobberingh, E. Validity of the urine dipslide under daily practice conditions. Fam Pract. 2003 Aug; 20: 410-2

132180 Winkler, M. H., Kulinskaya, E., Gillatt, D. A. Prediction of prostate cancer in extended-field biopsies of the prostate. BJU Int. 2004 Mar; 93: 516-21

120990 Wise, G. J., Marella, V. K., Talluri, G., Shirazian, D. Cytokine variations in patients with hormone treated prostate cancer. J Urol. 2000 Sep; 164: 722-5

114610 Wise, G. J., Md, E. O. Hormonal treatment of patients with benign prostatic hyperplasia: pros and cons. Curr Urol Rep. 2001 Aug; 2: 285-91

118630 Wissenbach, U., Niemeyer, B. A., Fixemer, T., Schneidewind, A., Trost, C., Cavalie, A., Reus, K., Meese, E., Bonkhoff, H., Flockerzi, V. Expression of CaT-like, a novel calcium-selective channel, correlates with the malignancy of prostate cancer. J Biol Chem. 2001 Jun 1; 276: 19461-8

127610 Woderich, R., Fowler, C. J. Management of lower urinary tract symptoms in men with progressive neurological disease. Curr Opin Urol. 2006 Jan; 16: 30-6

150700 Wolfe, F. and Michaud, K. Anemia and renal function in patients with rheumatoid arthritis. J Rheumatol. 2006; 33: 1516-22

118290 Wolff, J. M., Boekels, O., Borchers, H., Jakse, G., Rohde, D. Altered prostate specific antigen reference range after transurethral resection of the prostate. Anticancer Res. 2000 Nov-Dec; 20: 4977-80

161080 Wolff, J. M., Borchers, H., Brehmer, B., Jr., Brauers, A., Jakse, G. Cytokeratin markers in patients with prostatic diseases. Anticancer Res. 1999 Jul-Aug; 19: 2649-52

161090 Wolff, J. M., Fandel, T. H., Borchers, H., Jakse, G. Serum concentrations of transforming growth factor-beta 1 in patients with benign and malignant prostatic diseases. Anticancer Res. 1999 Jul-Aug; 19: 2657-9

118250 Wolff, J. M., Rohde, D., Borchers, H., Jakse, G. Tissue polypeptide specific antigen serum concentrations in patients with newly diagnosed prostatic diseases. Anticancer Res. 2000 Nov-Dec; 20: 5003-5

161100 Wolff, J. M., Stocker, G., Borchers, H., Haubeck, H., Greiling, H., Jakse, G. Critical aspects related to the interpretation of the free-to-total PSA-ratio. Anticancer Res. 1999 Jul-Aug; 19: 2633-6

125740 Wolters, R., Grol, R., Schermer, T., Akkermans, R., Hermens, R., Wensing, M. Improving initial management of lower urinary tract symptoms in primary care: costs and patient outcomes. Scand J Urol Nephrol. 2006; 40: 300-6

128020 Wolters, R., Wensing, M., Klomp, M., Lagro-Jansen, T., Weel, C., Grol, R. Effects of distance learning on clinical management of LUTS in primary care: a randomised trial. Patient Educ Couns. 2005 Nov; 59: 212-8

130260 Wolters, R., Wensing, M., Klomp, M., van Weel, C., Grol, R. Shared care and the management of lower urinary tract symptoms. BJU Int. 2004 Dec; 94: 1287-90

131590 Wolters, R., Wensing, M., Van Weel, C., Grol, R. The effect of a distance-learning programme on patient self-management of Lower Urinary Tract Symptoms (LUTS) in general practice: a randomised controlled trial. Eur Urol. 2004 Jul; 46: 95-101

135000 Wolters, R., Wensing, M., van Weel, C., van der Wilt, G. J., Grol, R. P. Lower urinary tract symptoms: social influence is more important than symptoms in seeking medical care. BJU Int. 2002 Nov; 90: 655-61

160630 Won, J. H., Parekattil, S. J., Davidson, S. D., Luddy, J. S., Choudhury, M. S., Mallouh, C., Tazaki, H., Konno, S. Ammonium-chloride-induced prostatic hypertrophy in vitro: urinary ammonia as a potential risk factor for benign prostatic hyperplasia. Urol Res. 1999 Oct; 27: 376-81

156120 Wong, C., Araki, M. and Tonkin, J. B. High-power potassium-titanyl-phosphate or lithium triboride laser photoselective vaporization prostatectomy for benign prostatic hyperplasia: a systematic approach. J Endourol. 2007; 21: 1141-4

164770 Wong, J. M., Hansen, K. J., Oskin, T. C., Craven, T. E., Plonk, G. W., Jr., Ligush, J., Jr., Dean, R. H. Surgery after failed percutaneous renal artery angioplasty. J Vasc Surg. 1999 Sep; 30: 468-82

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

125490 Wong, S. Y., Chan, D., Hong, A., Leung, P. C., Woo, J. Depression and lower urinary tract symptoms: Two important correlates of erectile dysfunction in middle-aged men in Hong Kong, China. Int J Urol. 2006 Oct; 13: 1304-10

126060 Wong, S. Y., Hong, A., Leung, J., Kwok, T., Leung, P. C., Woo, J. Lower urinary tract symptoms and depressive symptoms in elderly men. J Affect Disord. 2006 Nov; 96: 83-8

125190 Wong, S. Y., Woo, J., Hong, A., Leung, J. C., Kwok, T., Leung, P. C. Risk factors for lower urinary tract symptoms in southern Chinese men. Urology. 2006 Nov; 68: 1009-14

106710 Wong, W. Y., Chen, S. C., Chueh, S. C., Chen, J. The trend of managing prostate cancer in Taiwan. Int J Urol. 2004 Jul; 11: 510-4

135420 Wongchinsri, J., Tantawichien, T., Osiri, M., Akkasilpa, S., Deesomchok, U. Infection in Thai patients with systemic lupus erythematosus: a review of hospitalized patients. J Med Assoc Thai. 2002 Jun; 85 Suppl 1: S34-9

152770 Wozny, W., Schroer, K., Schwall, G. P., Poznanovic, S., Stegmann, W., Dietz, K., Rogatsch, H., Schaefer, G., Huebl, H., Klocker, H., Schrattenholz, A. and Cahill, M. A. Differential radioactive quantification of protein abundance ratios between benign and malignant prostate tissues: cancer association of annexin A3. Proteomics. 2007; 7: 313-22

115100 Wright, E. J., Fang, J., Metter, E. J., Partin, A. W., Landis, P., Chan, D. W., Carter, H. B. Prostate specific antigen predicts the long-term risk of prostate enlargement: results from the Baltimore Longitudinal Study of Aging. J Urol. 2002 Jun; 167: 2484-7; discussion 2487-8

122800 Wright, G. L. , Jr., Beckett, M. L., Newhall, K. R., Adam, B. L., Cazares, L. H., Cartwright, S. L., Xiao, Z., Gong, L., Schellhammer, P. F. Identification of a superimmunoglobulin gene family member overexpressed in benign prostatic hyperplasia. Prostate. 2000 Feb 15; 42: 230-8

154640 Wu, C. F., Pang, S. T., Chen, C. S., Chuang, C. K., Chen, Y. and Lin, P. Y. The impact factors on prognosis of patients with pT3 upper urinary tract transitional cell carcinoma. J Urol. 2007; 178: 446-50, dicussion 450

129440 Wu, C. Y., Chiu, P. C., Hsieh, K. S., Chiu, C. L., Shih, C. H., Chiou, Y. H. Childhood urinary tract infection: a clinical analysis of 597 cases. Acta Paediatr Taiwan. 2004 Nov-Dec; 45: 328-33

105060 Wu, C., Fry, P. M., Sui, G., Fry, C. H. Intracellular Ca2+ regulation in a human prostate stromal cell culture. Neurourol Urodyn. 2005; 24: 81-8

134530 Wu, H. C., Huang, W. S., Lin, C. C., Lee, C. C., Kao, A. Objective evidence of a high prevalence of renal damage in women with type 2 diabetes by technetium-99m DMSA renal cortex scan findings. Urology. 2003 Jan; 61: 50-4

128370 Wu, J., Baguley, I. J. Urinary retention in a general rehabilitation unit: prevalence, clinical outcome, and the role of screening. Arch Phys Med Rehabil. 2005 Sep; 86: 1772-7

152720 Wu, S. L., Li, N. C., Xiao, Y. X., Jin, J., Qiu, S. P., Ye, Z. Q., Kong, C. Z., Sun, G. and Na, Y. Q. Natural history of benign prostate hyperplasia. Chin Med J (Engl). 2006; 119: 2085-9

155930 Wu, T. T., Wang, J. S., Jiann, B. P., Yu, C. C., Tsai, J. Y., Lin, J. T. and Huang, J. K. Expression of vascular endothelial growth factor in Taiwanese benign and malignant prostate tissues. J Chin Med Assoc. 2007; 70: 380-4

101240 Wuermli, L., Joerger, M., Henz, S., Schmid, H. P., Riesen, W. F., Thomas, G., Krek, W., Cerny, T., Gillessen, S. Hypertriglyceridemia as a possible risk factor for prostate cancer. Prostate Cancer Prostatic Dis. 2005; 8: 316-20

133170 Wullt, B. The role of P fimbriae for Escherichia coli establishment and mucosal inflammation in the human urinary tract. Int J Antimicrob Agents. 2003 Jun; 21: 605-21

132460 Wullt, B., Holst, E., Steven, K., Carstensen, J., Pedersen, J., Gustafsson, E., Colleen, S., Mansson, W. Microbial flora in ileal and colonic neobladders. Eur Urol. 2004 Feb; 45: 233-9

152640 Wurzel, R., Ray, P., Major-Walker, K., Shannon, J. and Rittmaster, R. The effect of dutasteride on intraprostatic dihydrotestosterone concentrations in men with benign prostatic hyperplasia. Prostate Cancer Prostatic Dis. 2007; 10: 149-54

101700 Wyllie, M. G. Another year, another AUA. BJU Int. 2006 May; 97: 1119-20

109250 Wyllie, M. G. Safety and efficacy of alfuzosin 10 mg once-daily in the treatment of lower urinary tract symptoms and clinical benign prostatic hyperplasia: a pooled analysis of three double-blind, placebo-controlled studies. BJU Int. 2003 Dec; 92: 1044; author reply 1044-5

120940 Wymenga, L. F., Duisterwinkel, F. J., Groenier, K., Visser-van Brummen, P., Marrink, J., Mensink, H. J. Clinical implications of free-to-total immunoreactive prostate-specific antigen ratios. Scand J Urol Nephrol. 2000 Jun; 34: 181-7

117390 Wymenga, L. F., Groenier, K., Schuurman, J., Boomsma, J. H., Elferink, R. O., Mensink, H. J. Pretreatment levels of urinary deoxypyridinoline as a potential marker in patients with prostate cancer with or without bone metastasis. BJU Int. 2001 Aug; 88: 231-5

119790 Wymenga, L. F., Groenier, K., Visser-van Brummen, P., Marrink, J., Mensink, H. J. Reliability analysis of first and second generation PSA assays. Can J Urol. 2000 Aug; 7: 1070-6

122090 Wymenga, L. F., Wisman, G. B., Veenstra, R., Ruiters, M. H., Mensink, H. J. Telomerase activity in needle biopsies from prostate cancer and benign prostates. Eur J Clin Invest. 2000 Apr; 30: 330-5

135220 Wyndaele, J. J. Complications of intermittent catheterization: their prevention and treatment. Spinal Cord. 2002 Oct; 40: 536-41

137720 Wyndaele, J. J., Madersbacher, H., Kovindha, A. Conservative treatment of the neuropathic bladder in spinal cord injured patients. Spinal Cord. 2001 Jun; 39: 294-300

130550 Wyndaele, J. J., Van Meel, T. D., De Wachter, S. Detrusor overactivity. Does it represent a difference if patients feel the involuntary contractions?. J Urol. 2004 Nov; 172: 1915-8

107810 Wysowski, D. K., Farinas, E. Finasteride in benign prostatic hyperplasia. N Engl J Med. 2004 Mar 25; 350: 1359-61; author reply 1359-61

119150 Xia, S. J., Hao, G. Y., Tang, X. D. Androgen receptor isoforms in human and rat prostate. Asian J Androl. 2000 Dec; 2: 307-10

117790 Xia, S. J., Xu, C. X., Tang, X. D., Wang, W. Z., Du, D. L. Apoptosis and hormonal milieu in ductal system of normal prostate and benign prostatic hyperplasia. Asian J Androl. 2001 Jun; 3: 131-4

112640 Xia, S. J., Xu, X. X., Teng, J. B., Xu, C. X., Tang, X. D. Characteristic pattern of human prostatic growth with age. Asian J Androl. 2002 Dec; 4: 269-71

117210 Xiao, Z., Adam, B. L., Cazares, L. H., Clements, M. A., Davis, J. W., Schellhammer, P. F., Dalmasso, E. A., Wright, G. L. , Jr. Quantitation of serum prostate-specific membrane antigen by a novel protein biochip immunoassay discriminates benign from malignant prostate disease. Cancer Res. 2001 Aug 15; 61: 6029-33

154080 Xie, L. P., Bai, Y., Zhang, X. Z., Zheng, X. Y., Yao, K. S., Xu, L. and Zeegers, M. P. Obesity and benign prostatic enlargement: a large observational study in China. Urology. 2007; 69: 680-4

105770 Xu, C., Jung, M., Burkhardt, M., Stephan, C., Schnorr, D., Loening, S., Jung, K., Dietel, M., Kristiansen, G. Increased CD59 protein expression predicts a PSA relapse in patients after radical prostatectomy. Prostate. 2005 Feb 15; 62: 224-32

111300 Xu, K., Wang, X., Ling, M. T., Lee, D. T., Fan, T., Chan, F. L., Xuan, J. J., Tsao, S. W., Wong, Y. C. Identification of a specifically expressed modified form of novel PSP-94 protein in the secretion of benign prostatic hyperplasia. Electrophoresis. 2003 Apr; 24: 1311-8

151540 Xu, Y. M., Zhang, X. R., Sa, Y. L., Chen, R. and Fei, X. F. Bulbourethral composite suspension for treatment of male-acquired urinary incontinence. Eur Urol. 2007; 51: 1709-14; discussion 1715-6

155540 Xu, Y., Wang, X. and Jiang, X. Relationship between the renal apparent diffusion coefficient and glomerular filtration rate: preliminary experience. J Magn Reson Imaging. 2007; 26: 678-81

100260 Xu, Y., Zhang, T., Tang, H., Zhang, S., Liu, M., Ren, D., Niu, Y. Overexpression of PIM-1 is a potential biomarker in prostate carcinoma. J Surg Oncol. 2005 Dec 15; 92: 326-30

153280 Xue, Z., Zhang, Y., Ding, Q., He, Z., Wang, J. and Xu, K. Doxazosin gastrointestinal therapeutic system versus tamsulosin for the treatment of benign prostatic hyperplasia: a study in Chinese patients. Int J Urol. 2007; 14: 118-22

106690 Yagci, C., Kupeli, S., Tok, C., Fitoz, S., Baltaci, S., Gogus, O. Efficacy of transrectal ultrasonography in the evaluation of hematospermia. Clin Imaging. 2004 Jul-Aug; 28: 286-90

163460 Yalcin, O. T., Hassa, H., Ozalp, S. Effectiveness of ultrasonographic parameters for documenting the severity of anatomic stress incontinence. Acta Obstet Gynecol Scand. 2000 May; 79: 421-6

118130 Yamada, Y., Watanabe, M., Murata, M., Yamanaka, M., Kubota, Y., Ito, H., Katoh, T., Kawamura, J., Yatani, R., Shiraishi, T. Impact of genetic polymorphisms of 17-hydroxylase cytochrome P-450 (CYP17) and steroid 5alpha-reductase type II (SRD5A2) genes on prostate-cancer risk among the Japanese population. Int J Cancer. 2001 Jun 1; 92: 683-6

110710 Yamada, Y., Watanabe, M., Yamanaka, M., Hirokawa, Y., Suzuki, H., Takagi, A., Matsuzaki, T., Sugimura, Y., Yatani, R., Shiraishi, T. Aberrant methylation of the vascular endothelial growth factor receptor-1 gene in prostate cancer. Cancer Sci. 2003 Jun; 94: 536-9

161260 Yamamoto, S., Romanenko, A., Wei, M., Masuda, C., Zaparin, W., Vinnichenko, W., Vozianov, A., Lee, C. C., Morimura, K., Wanibuchi, H., Tada, M., Fukushima, S. Specific p53 gene mutations in urinary bladder epithelium after the Chernobyl accident. Cancer Res. 1999 Aug 1; 59: 3606-9

118780 Yamamoto, S., Sasaguri, T., Shimizu, Y., Watanabe, J., Shibata, K. R., Iwasaki, R. Renal pelvic carcinoma of horseshoe kidney caused systemic metastasis by implantation in prostate. Int J Urol. 2001 Apr; 8: 184-7

129830 Yamamoto, T., Sakakibara, R., Uchiyama, T., Liu, Z., Ito, T., Yamanishi, T., Hattori, T. Lower urinary tract function in patients with pituitary adenoma compressing hypothalamus. J Neurol Neurosurg Psychiatry. 2005 Mar; 76: 390-4

110620 Yamanaka, M., Watanabe, M., Yamada, Y., Takagi, A., Murata, T., Takahashi, H., Suzuki, H., Ito, H., Tsukino, H., Katoh, T., Sugimura, Y., Shiraishi, T. Altered methylation of multiple genes in carcinogenesis of the prostate. Int J Cancer. 2003 Sep 1; 106: 382-7

117530 Yamanishi, T., Takei, K., Tobe, T., Ueda, T., Ito, H., Yasuda, K. Transurethral holmium: YAG laser prostatectomy using a side-firing fiber for bladder outlet obstruction due to benign prostatic enlargement: urodynamic evaluation of surgical outcome. Eur Urol. 2001 May; 39: 544-50

106720 Yamanishi, T., Yasuda, K., Kamai, T., Tsujii, T., Sakakibara, R., Uchiyama, T., Yoshida, K. Single-blind, randomized controlled study of the clinical and urodynamic effects of an alpha-blocker (naftopidil) and phytotherapy (eviprostat) in the treatment of benign prostatic hyperplasia. Int J Urol. 2004 Jul; 11: 501-9

139080 Yamanishi, T., Yasuda, K., Murayama, N., Sakakibara, R., Uchiyama, T., Ito, H. Biofeedback training for detrusor overactivity in children. J Urol. 2000 Nov; 164: 1686-90

109950 Yamazaki, K., Orikasa, H. A seminal vesicle cyst complicated with a tumor like nodular mass of benign proliferating prostatic tissue: a case report with ultrastructural and immunohistochemical studies. J Submicrosc Cytol Pathol. 2003 Apr; 35: 209-14

109020 Yang, C. C., Sun, S. S., Lin, C. Y., Chuang, F. J., Kao, C. H. Differentiation of prostate cancer and benign prostatic hyperplasia: the clinical value of 201Tl SPECT--a pilot study. Ann Nucl Med. 2003 Oct; 17: 521-4

111460 Yang, C. R., Ou, Y. C., Horng, Y. Y., Lee, H. S. The variation of percent free prostate-specific antigen determined by two different assays. Anticancer Res. 2003 Jan-Feb; 23: 707-11

160870 Yang, Q., Abrams, P., Donovan, J., Mulligan, S., Williams, G. Transurethral resection or incision of the prostate and other therapies: a survey of treatments for benign prostatic obstruction in the UK. BJU Int. 1999 Oct; 84: 640-5

137910 Yang, Q., Peters, T. J., Donovan, J. L., Wilt, T. J., Abrams, P. Transurethral incision compared with transurethral resection of the prostate for bladder outlet obstruction: a systematic review and meta-analysis of randomized controlled trials. J Urol. 2001 May; 165: 1526-32

153390 Yang, R., Hellmark, T., Zhao, J., Cui, Z., Segelmark, M., Zhao, M. H. and Wang, H. Y. Antigen and epitope specificity of anti-glomerular basement membrane antibodies in patients with goodpasture disease with or without anti-neutrophil cytoplasmic antibodies. J Am Soc Nephrol. 2007; 18: 1338-43

105230 Yang, S., Lin, W. C., Chang, H. K., Hsu, J. M., Lin, W. R., Chow, Y. C., Tsai, W. K., Lee, T. A., Lo, K. Y., Chow, K., Chen, M. Gyrus plasmasect: is it better than monopolar transurethral resection of prostate?. Urol Int. 2004; 73: 258-61

102520 Yang, S., Zhong, C., Frenkel, B., Reddi, A. H., Roy-Burman, P. Diverse biological effect and Smad signaling of bone morphogenetic protein 7 in prostate tumor cells. Cancer Res. 2005 Jul 1; 65: 5769-77

151810 Yang, T. H., Leung, S. K., Phipps, S., Reuben, R. L., McNeill, S. A., Habib, F. K., Schnieder, A. and Stevens, R. In-vitro dynamic micro-probing and the mechanical properties of human prostate tissues. Technol Health Care. 2006; 14: 281-96

110940 Yang, X. J., Tretiakova, M. S., Sengupta, E., Gong, C., Jiang, Z. Florid basal cell hyperplasia of the prostate: a histological, ultrastructural, and immunohistochemical analysis. Hum Pathol. 2003 May; 34: 462-70

114230 Yang, X. J., Wu, C. L., Woda, B. A., Dresser, K., Tretiakova, M., Fanger, G. R., Jiang, Z. Expression of alpha-Methylacyl-CoA racemase (P504S) in atypical adenomatous hyperplasia of the prostate. Am J Surg Pathol. 2002 Jul; 26: 921-5

160190 Yang, Y. J., Lee, S. H., Hong, S. J., Chung, B. C. Comparison of fatty acid profiles in the serum of patients with prostate cancer and benign prostatic hyperplasia. Clin Biochem. 1999 Aug; 32: 405-9

150190 Yang, Y., Niu, Z. B., Hou, Y. and Wang, C. L. The expression of HSP70 and HSP90alpha in children with Wilms tumor. J Pediatr Surg. 2006; 41: 1062-6

153650 Yang, Y., Zhao, X. F., Li, H. Z., Wang, W., Zhang, Y., Xiao, H. and Zhang, X. Efficacy and safety of combined therapy with terazosin and tolteradine for patients with lower urinary tract symptoms associated with benign prostatic hyperplasia: a prospective study. Chin Med J (Engl). 2007; 120: 370-4

107230 Yano, M., Kitahara, S., Yasuda, K., Yamanishi, T., Nakai, H., Yanagisawa, R., Morozumi, M., Homma, Y. A pilot study evaluating a new questionnaire for prostatic symptom scoring, the SPSS, and its sensitivity as constructed to objective measures of outflow obstruction. Int J Urol. 2004 May; 11: 288-94

152730 Yao, X., Qian, C. N., Zhang, Z. F., Tan, M. H., Kort, E. J., Yang, X. J., Resau, J. H. and Teh, B. T. Two distinct types of blood vessels in clear cell renal cell carcinoma have contrasting prognostic implications. Clin Cancer Res. 2007; 13: 161-9

165580 Yaoita, E., Franke, W. W., Yamamoto, T., Kawasaki, K., Kihara, I. Identification of renal podocytes in multiple species: higher vertebrates are vimentin positive/lower vertebrates are desmin positive. Histochem Cell Biol. 1999 Feb; 111: 107-15

126540 Yap, T. L., Brown, C. T., Emberton, M. Self-management in lower urinary tract symptoms: the next major therapeutic revolution. World J Urol. 2006 Sep; 24: 371-7

125600 Yap, T. L., Cromwell, D. C., Emberton, M. A systematic review of the reliability of frequency-volume charts in urological research and its implications for the optimum chart duration. BJU Int. 2007 Jan; 99: 16-Sep

112570 Yarnell, E. Botanical medicines for the urinary tract. World J Urol. 2002 Nov; 20: 285-93

115350 Yashi, M., Muraishi, O., Kobayashi, Y., Tokue, A., Nanjo, H. Elevated serum progastrin-releasing peptide (31-98) in metastatic and androgen-independent prostate cancer patients. Prostate. 2002 May 1; 51: 84-97

100810 Yassin, A., Saad, F., Hoesl, C. E., Traish, A. M., Hammadeh, M., Shabsigh, R. Alpha-adrenoceptors are a common denominator in the pathophysiology of erectile function and BPH/LUTS--implications for clinical practice. Andrologia. 2006 Feb; 38: 12-Jan

110260 Yasui, Y., Pepe, M., Thompson, M. L., Adam, B. L., Wright, G. L. , Jr., Qu, Y., Potter, J. D., Winget, M., Thornquist, M., Feng, Z. A data-analytic strategy for protein biomarker discovery: profiling of high-dimensional proteomic data for cancer detection. Biostatistics. 2003 Jul; 4: 449-63

117460 Yasukawa, K., Swarz, H., Ito, Y. Review of orthostatic tests on the safety of tamsulosin, a selective alpha1A-adrenergic receptor antagonist, shows lack of orthostatic hypotensive effects. J Int Med Res. 2001 May-Jun; 29: 236-51

108000 Yegnasubramanian, S., Kowalski, J., Gonzalgo, M. L., Zahurak, M., Piantadosi, S., Walsh, P. C., Bova, G. S., De Marzo, A. M., Isaacs, W. B., Nelson, W. G. Hypermethylation of CpG islands in primary and metastatic human prostate cancer. Cancer Res. 2004 Mar 15; 64: 1975-86

116240 Yeh, C. C., Hung, C. F., Wang, W. L., Chung, J. G. Kinetics of acetyl coenzyme A: arylamine N-acetyltransferase from rapid and slow acetylator human benign prostatic hyperplasia tissues. Urol Res. 2001 Oct; 29: 311-6

117430 Yeh, C. C., Lee, C., Huang, M. C., Dahiya, R. Loss of mismatch repair activity in simian virus 40 large T antigen-immortalized BPH-1 human prostatic epithelial cell line. Mol Carcinog. 2001 Jul; 31: 145-51

116270 Yeh, Y. A., Wang, J. W., Fan, C. Y., MacLeod, S. L., Fan, K. Expression of fas ligand in metastatic prostatic carcinoma: suggestive of possible clonal expansion of subpopulation with metastatic potential. Diagn Mol Pathol. 2001 Dec; 10: 236-41

113070 Yeni, E., Unal, D., Verit, A., Gulum, M. Minimal transurethral prostatectomy plus bladder neck incision versus standard transurethral prostatectomy in patients with benign prostatic hyperplasia: a randomised prospective study. Urol Int. 2002; 69: 283-6

113620 Yeniyol, C. O., Bozkaya, G., Cavusoglu, A., Arslan, M., Karaca, B., Ayder, A. R. The relation of prostate biopsy results and ratio of free to total PSA in patients with a total PSA between 4-20 ng/mL. Int Urol Nephrol. 2001; 33: 503-6

152040 Yeung, C. K., Sreedhar, B., Leung, Y. F. and Sit, K. Y. Correlation between ultrasonographic bladder measurements and urodynamic findings in children with recurrent urinary tract infection. BJU Int. 2007; 99: 651-5

150070 Yi, F. X., Wei, Q., Li, H., Li, X., Shi, M., Dong, Q. and Yang, Y. R. Risk factors for prostatic inflammation extent and infection in benign prostatic hyperplasia. Asian J Androl. 2006; 8: 621-7

137870 Yip, S. K., Ang, B. S., Tan, J. Clinics in diagnostic imaging (57). Melioidotic prostatic abscess. Singapore Med J. 2001 Jan; 42: 41-3

114100 Ylikoski, A., Pettersson, K., Nurmi, J., Irjala, K., Karp, M., Lilja, H., Lovgren, T., Nurmi, M. Simultaneous quantification of prostate-specific antigen and human glandular kallikrein 2 mRNA in blood samples from patients with prostate cancer and benign disease. Clin Chem. 2002 Aug; 48: 1265-71

108620 Yokota, T., Honda, K., Tsuruya, Y., Nomiya, M., Yamaguchi, O., Gotanda, K., Constantinou, C. E. Functional and anatomical effects of hormonally induced experimental prostate growth: a urodynamic model of benign prostatic hyperplasia (BPH) in the beagle. Prostate. 2004 Feb 1; 58: 156-63

121350 Yokoyama, O., Komatsu, K., Kodama, K., Yotsuyanagi, S., Niikura, S., Namiki, M. Diagnostic value of intravesical lidocaine for overactive bladder. J Urol. 2000 Aug; 164: 340-3

123350 Yokoyama, T., Kumon, H., Nasu, Y., Takamoto, H., Watanabe, T. Comparison of 25 and 75 mg/day naftopidil for lower urinary tract symptoms associated with benign prostatic hyperplasia: a prospective, randomized controlled study. Int J Urol. 2006 Jul; 13: 932-8

105640 Yokoyama, T., Tsugawa, M., Nagai, A., Kumon, H. High-energy transurethral microwave thermotherapy in patients with benign prostatic hyperplasia: comparative study between 30-and 60-minute single treatments. Acta Med Okayama. 2004 Jun; 58: 151-6

155130 Yokoyama, T., Watanabe, T., Saika, T., Nasu, Y., Kumon, H., Miyaji, Y. and Nagai, A. Natural course of lower urinary tract symptoms following discontinuation of alpha-1-adrenergic blockers in patients with benign prostatic hyperplasia. Int J Urol. 2007; 14: 598-601

151830 Yoon, C. J., Kim, J. Y., Moon, K. H., Jung, H. C. and Park, T. C. Transurethral resection of the prostate with a bipolar tissue management system compared to conventional monopolar resectoscope: one-year outcome. Yonsei Med J. 2006; 47: 715-20

100020 Yoong, H. F., Sundaram, M. B., Aida, Z. Prevalence of nocturnal polyuria in patients with benign prostatic hyperplasia. Med J Malaysia. 2005 Aug; 60: 294-6

164340 Yorioka, N., Taniguchi, Y., Amimoto, D., Ogata, S., Sakikubo, E., Yamakido, M., Naito, T., Shimamoto, F. Clinicopathological study of myeloperoxidase anti-neutrophil cytoplasmic antibody-associated glomerulonephritis. Clin Nephrol. 1999 Nov; 52: 293-6

156470 Yoshida, M., Homma, Y. and Kawabe, K. Silodosin, a novel selective alpha 1A-adrenoceptor selective antagonist for the treatment of benign prostatic hyperplasia. Expert Opin Investig Drugs. 2007; 16: 1955-65

154920 Yoshida, M., Sugiyama, Y., Masunaga, K., Maeda, Y., Satoji, Y., Nagata, T. and Inadome, A. Effect of tamsulosin hydrochloride on lower urinary tract symptoms and quality of life in patients with benign prostatic hyperplasia. Evaluation using bother score. Drugs Today (Barc). 2007; 43 Suppl B: 1-7

163760 Yoshihara, F., Nishikimi, T., Sasako, Y., Kobayashi, J., Kosakai, Y., Hattori, R., Horio, T., Kitamura, S., Matsuo, H., Ohe, T., Kangawa, K. Preservation of the right atrial appendage improves reduced plasma atrial natriuretic peptide levels after the maze procedure. J Thorac Cardiovasc Surg. 2000 Apr; 119: 790-4

113230 Yoshimura, K., Arai, Y., Ichioka, K., Terada, N., Matsuta, Y., Okubo, K. Symptom-specific quality of life in patients with benign prostatic hyperplasia. Int J Urol. 2002 Sep; 9: 485-90

154890 Yoshimura, K., Kamoto, T., Oka, Y., Tsukamoto, T., Oshiro, K., Suzukamo, Y., Kinukawa, N. and Ogawa, O. Differences between bothersome and non-bothersome night-time frequency. Neurourol Urodyn. 2007; 26: 1014-9

111570 Yoshimura, K., Ohara, H., Ichioka, K., Terada, N., Matsui, Y., Terai, A., Arai, Y. Nocturia and benign prostatic hyperplasia. Urology. 2003 Apr; 61: 786-90

107240 Yoshimura, K., Terada, N., Matsui, Y., Terai, A., Kinukawa, N., Arai, Y. Prevalence of and risk factors for nocturia: Analysis of a health screening program. Int J Urol. 2004 May; 11: 282-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

121070 Yoshimura, R., Sano, H., Masuda, C., Kawamura, M., Tsubouchi, Y., Chargui, J., Yoshimura, N., Hla, T., Wada, S. Expression of cyclooxygenase-2 in prostate carcinoma. Cancer. 2000 Aug 1; 89: 589-96

134190 Yoshino, Y., Ono, Y., Hattori, R., Gotoh, M., Kamihira, O., Ohshima, S. Retroperitoneoscopic nephroureterectomy for transitional cell carcinoma of the renal pelvis and ureter: Nagoya experience. Urology. 2003 Mar; 61: 533-8

151180 Yossepowitch, O., Eggener, S. E., Serio, A., Huang, W. C., Snyder, M. E., Vickers, A. J. and Russo, P. Temporary renal ischemia during nephron sparing surgery is associated with short-term but not long-term impairment in renal function. J Urol. 2006; 176: 1339-43; discussion 1343

139560 Young, J. M., Muscatello, D. J., Ward, J. E. Are men with lower urinary tract symptoms at increased risk of prostate cancer? A systematic review and critique of the available evidence. BJU Int. 2000 Jun; 85: 1037-48

100910 Young, L., Salomon, R., Au, W., Allan, C., Russell, P., Dong, Q. Ornithine decarboxylase (ODC) expression pattern in human prostate tissues and ODC transgenic mice. J Histochem Cytochem. 2006 Feb; 54: 223-9

126500 Yu, D. S. Gelatin packing of intracortical tract after percutaneous nephrostomy lithotripsy for decreasing bleeding and urine leakage. J Chin Med Assoc. 2006 Apr; 69: 162-5

135470 Yu, D. S., Chen, H. I., Chang, S. Y. Chromosomal aberrations in transitional cell carcinoma: its correlation with tumor behavior. Urol Int. 2002; 69: 129-35

123070 Yu, H. J., Liu, C. Y., Lee, K. L., Lee, W. C., Chen, T. H. Overactive bladder syndrome among community-dwelling adults in Taiwan: prevalence, correlates, perception, and treatment seeking. Urol Int. 2006; 77: 327-33

130970 Yu, N. C., Raman, S. S., Patel, M., Barbaric, Z. Fistulas of the genitourinary tract: a radiologic review. Radiographics. 2004 Sep-Oct; 24: 1331-52

101730 Yu, X., McBean, A. M., Caldwell, D. S. Unequal use of new technologies by race: the use of new prostate surgeries (transurethral needle ablation, transurethral microwave therapy and laser) among elderly Medicare beneficiaries. J Urol. 2006 May; 175: 1830-5; discussion 1835

125520 Yu, Z., Dadgar, N., Albertelli, M., Gruis, K., Jordan, C., Robins, D. M., Lieberman, A. P. Androgen-dependent pathology demonstrates myopathic contribution to the Kennedy disease phenotype in a mouse knock-in model. J Clin Invest. 2006 Oct; 116: 2663-72

157070 Yuan, J., Wang, H., Wu, G., Liu, H., Zhang, Y. and Yang, L. High-power (80 W) potassium titanyl phosphate laser prostatectomy in 128 high-risk patients. Postgrad Med J. 2008; 84: 46-9

114340 Yue, K., Marumoto, A., Binesh, N., Thomas, M. A. 2D JPRESS of human prostates using an endorectal receiver coil. Magn Reson Med. 2002 Jun; 47: 1059-64

153830 Yuen, H. F., Chua, C. W., Chan, Y. P., Wong, Y. C., Wang, X. and Chan, K. W. Significance of TWIST and E-cadherin expression in the metastatic progression of prostatic cancer. Histopathology. 2007; 50: 648-58

157310 Yuen, S. K., Mak, Y. F., Tang, H. L., Yong, S. P., Chow, K. M., Chu, K. H., Fung, K. S., Chan, W. H. and Tong, K. L. Renal allograft C4d deposition in Chinese: Hong Kong perspective. Nephrology (Carlton). 2008; 13: 256-63

123930 Yun, A. J., Doux, J. D. Opening the floodgates: benign prostatic hyperplasia may represent another disease in the compendium of ailments caused by the global sympathetic bias that emerges with aging. Med Hypotheses. 2006; 67: 392-4

118090 Yurkanin, J. P., Dalkin, B. L., Cui, H. Evaluation of cold knife urethrotomy for the treatment of anastomotic stricture after radical retropubic prostatectomy. J Urol. 2001 May; 165: 1545-8

129490 Yuruktumen, A., Karcioglu, O., Topacoglu, H., Arslan, E. D. Acute renal failure associated with dysfunctioning detrusor muscle in multiple sclerosis. Adv Ther. 2004 Nov-Dec; 21: 343-7

107610 Yuyun, M. F., Angwafo, I. I. I., F.F., Koulla-Shiro, S., Zoung-Kanyi, J. Urinary tract infections and genitourinary abnormalities in Cameroonian men. Trop Med Int Health. 2004 Apr; 9: 520-5

103230 Zachara, B. A., Szewczyk-Golec, K., Tyloch, J., Wolski, Z., Szylberg, T., Stepien, S., Kwiatkowski, S., Bloch-Boguslawska, E., Wasowicz, W. Blood and tissue selenium concentrations and glutathione peroxidase activities in patients with prostate cancer and benign prostate hyperplasia. Neoplasma. 2005; 52: 248-54

103650 Zachara, B. A., Szewczyk-Golec, K., Wolski, Z., Tyloch, J., Skok, Z., Bloch-Boguslawska, E., Wasowicz, W. Selenium level in benign and cancerous prostate. Biol Trace Elem Res. 2005 Mar; 103: 199-206

111620 Zackrisson, B., Aus, G., Lilja, H., Lodding, P., Pihl, C. G., Hugosson, J. Follow-up of men with elevated prostate-specific antigen and one set of benign biopsies at prostate cancer screening. Eur Urol. 2003 Apr; 43: 327-32

128530 Zajaczkowska, M., Moulhee, N. M., Piechuta, L., Majewski, M., Borzecka, H. Dysfunctional voiding and urodynamic disorders in children with recurrent urinary tract infection. Ann Univ Mariae Curie Sklodowska [Med]. 2004; 59: 385-91

114440 Zakaria, L., Anastasiadis, A. G., Shabsigh, R. Common conditions of the aging male: erectile dysfunction, benign prostatic hyperplasia, cardiovascular disease and depression. Int Urol Nephrol. 2001; 33: 283-92

110280 Zamboni, P. F., Simone, M., Passaro, A., Doh Dalla Nora, E., Fellin, R., Solini, A. Metabolic profile in patients with benign prostate hyperplasia or prostate cancer and normal glucose tolerance. Horm Metab Res. 2003 May; 35: 296-300

153440 Zani, E. L. and Netto, N. R., Jr. Is the minimally invasive treatment as good as transurethral resection for benign prostatic hyperplasia?. Int Urol Nephrol. 2007; 39: 161-8

115830 Zapata, P. D., Ropero, R. M., Valencia, A. M., Buscail, L., Lopez, J. I., Martin-Orozco, R. M., Prieto, J. C., Angulo, J., Susini, C., Lopez-Ruiz, P., Colas, B. Autocrine regulation of human prostate carcinoma cell proliferation by somatostatin through the modulation of the SH2 domain containing protein tyrosine phosphatase (SHP)-1. J Clin Endocrinol Metab. 2002 Feb; 87: 915-26

101960 Zeliadt, S. B., Etzioni, R. D., Penson, D. F., Thompson, I. M., Ramsey, S. D. Lifetime implications and cost-effectiveness of using finasteride to prevent prostate cancer. Am J Med. 2005 Aug; 118: 850-7

105620 Zellweger, T., Ninck, C., Bloch, M., Mirlacher, M., Koivisto, P. A., Helin, H. J., Mihatsch, M. J., Gasser, T. C., Bubendorf, L. Expression patterns of potential therapeutic targets in prostate cancer. Int J Cancer. 2005 Feb 10; 113: 619-28

111780 Zellweger, T., Ninck, C., Mirlacher, M., Annefeld, M., Glass, A. G., Gasser, T. C., Mihatsch, M. J., Gelmann, E. P., Bubendorf, L. Tissue microarray analysis reveals prognostic significance of syndecan-1 expression in prostate cancer. Prostate. 2003 Apr 1; 55: 20-9

130600 Zeltser, I. S., Liu, J. B., Bagley, D. H. The incidence of crossing vessels in patients with normal ureteropelvic junction examined with endoluminal ultrasound. J Urol. 2004 Dec; 172: 2304-7

108050 Zeng, H., Xiao, Y., Lu, G., Chen, Y. Immunohistochemical studies of the expression of matrix metalloproteinase-2 and metalloproteinase-9 in human prostate cancer. J Huazhong Univ Sci Technolog Med Sci. 2003; 23: 373-4, 379

108040 Zeng, L., Rowland, R. G., Lele, S. M., Kyprianou, N. Apoptosis incidence and protein expression of p53, TGF-beta receptor II, p27Kip1, and Smad4 in benign, premalignant, and malignant human prostate. Hum Pathol. 2004 Mar; 35: 290-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

137580 Zermann, D. H., Ishigooka, M., Doggweiler-Wiygul, R., Schubert, J., Schmidt, R. A. The male chronic pelvic pain syndrome. World J Urol. 2001 Jun; 19: 173-9

128580 Zermann, D. H., Ishigooka, M., Schubert, J., Schmidt, R. A. Is there a relationship between chronic bladder dysfunction and somatic symptoms in other body regions? 1. Clinical observations. Int Urol Nephrol. 2005; 37: 257-61

127220 Zermann, D. H., Janitzky, A., Hohne, M., Schubert, J. Frequency and nocturia after successful renal transplantation: a normal situation?. BJU Int. 2006 Mar; 97: 555-8

132820 Zermann, D. H., Loffler, U., Reichelt, O., Wunderlich, H., Wilhelm, S., Schubert, J. Bladder dysfunction and end stage renal disease. Int Urol Nephrol. 2003; 35: 93-7

106080 Zhang, L., Shi, J., Feng, J., Klocker, H., Lee, C., Zhang, J. Type IV collagenase (matrix metalloproteinase-2 and -9) in prostate cancer. Prostate Cancer Prostatic Dis. 2004; 7: 327-32

111630 Zhang, M., Gong, K., Li, N., Zeng, L., Na, Y. Transurethral electrochemical treatment of benign prostatic hyperplasia. Chin Med J (Engl). 2003 Jan; 116: 104-7

113940 Zhang, P., Gao, J., Wu, Z. Urodynamic analysis of non-improvement after prostatectomy. Chin Med J (Engl). 2002 Jul; 115: 1093-5

109670 Zhang, P., Wu, Z., Gao, J. Influence of bladder outlet obstruction and detrusor contractility on residual urine in patients with benign prostatic hyperplasia. Chin Med J (Engl). 2003 Oct; 116: 1508-10

121170 Zhang, W. M., Finne, P., Leinonen, J., Salo, J., Stenman, U. H. Determination of prostate-specific antigen complexed to alpha(2)-macroglobulin in serum increases the specificity of free to total PSA for prostate cancer. Urology. 2000 Aug 1; 56: 267-72

118340 Zhang, W. M., Finne, P., Leinonen, J., Stenman, U. H. Characterization and determination of the complex between prostate-specific antigen and alpha 1-protease inhibitor in benign and malignant prostatic diseases. Scand J Clin Lab Invest Suppl. 2000; 233: 51-8

151900 Zhang, X., Zhang, Q., Zhang, Z., Na, Y. and Guo, Y. Apoptosis profiles in benign prostatic hyperplasia: close associations of cell kinetics with percent area density of histologic composition. Urology. 2006; 68: 905-10

113010 Zhang, Y., Nojima, S., Nakayama, H., Jin, Y., Enza, H. Characteristics of normal stromal components and their correlation with cancer occurrence in human prostate. Oncol Rep. 2003 Jan-Feb; 10: 207-11

150300 Zhang, Z., Rosen, D. G., Yao, J. L., Huang, J. and Liu, J. Expression of p14ARF, p15INK4b, p16INK4a, and DCR2 increases during prostate cancer progression. Mod Pathol. 2006; 19: 1339-43

105880 Zhao, H., Lai, F., Nonn, L., Brooks, J. D., Peehl, D. M. Molecular targets of doxazosin in human prostatic stromal cells. Prostate. 2005 Mar 1; 62: 400-10

151750 Zhao, H., Ramos, C. F., Brooks, J. D. and Peehl, D. M. Distinctive gene expression of prostatic stromal cells cultured from diseased versus normal tissues. J Cell Physiol. 2007; 210: 111-21

103070 Zhao, H., Shiina, H., Greene, K. L., Li, L. C., Tanaka, Y., Kishi, H., Igawa, M., Kane, C. J., Carroll, P., Dahiya, R. CpG methylation at promoter site -140 inactivates TGFbeta2 receptor gene in prostate cancer. Cancer. 2005 Jul 1; 104: 44-52

150540 Zhao, S. C., Zheng, S. B., Tan, W. L., Zhang, P. and Qi, H. Pressure-flow studies in patients with benign prostatic hyperplasia: a study comparing suprapubic and transurethral methods. Asian J Androl. 2006; 8: 731-5

103600 Zhao, X. Y., Schneider, D., Biroc, S. L., Parry, R., Alicke, B., Toy, P., Xuan, J. A., Sakamoto, C., Wada, K., Schulze, M., Muller-Tiemann, B., Parry, G., Dinter, H. Targeting tomoregulin for radioimmunotherapy of prostate cancer. Cancer Res. 2005 Apr 1; 65: 2846-53

112190 Zhao, Y. G., Xiao, A. Z., Newcomer, R. G., Park, H. I., Kang, T., Chung, L. W., Swanson, M. G., Zhau, H. E., Kurhanewicz, J., Sang, Q. X. Activation of pro-gelatinase B by endometase/matrilysin-2 promotes invasion of human prostate cancer cells. J Biol Chem. 2003 Apr 25; 278: 15056-64

108860 Zheng, Y., Xu, Y., Ye, B., Lei, J., Weinstein, M. H., O'Leary, M. P., Richie, J. P., Mok, S. C., Liu, B. C. Prostate carcinoma tissue proteomics for biomarker discovery. Cancer. 2003 Dec 15; 98: 2576-82

156610 Zhigang, Z. and Wenlu, S. The association of prostate stem cell antigen (PSCA) mRNA expression and subsequent prostate cancer risk in men with benign prostatic hyperplasia following transurethral resection of the prostate. Prostate. 2008; 68: 190-9

106120 Zhigang, Z., Wenlv, S. Prostate stem cell antigen (PSCA) expression in human prostate cancer tissues: implications for prostate carcinogenesis and progression of prostate cancer. Jpn J Clin Oncol. 2004 Jul; 34: 414-9

111140 Zhong, C., Yang, S., Huang, J., Cohen, M. B., Roy-Burman, P. Aberration in the expression of the retinoid receptor, RXRalpha, in prostate cancer. Cancer Biol Ther. 2003 Mar-Apr; 2: 179-84

107680 Zhong, H., Semenza, G. L., Simons, J. W., De Marzo, A. M. Up-regulation of hypoxia-inducible factor 1alpha is an early event in prostate carcinogenesis. Cancer Detect Prev. 2004; 28: 88-93

162110 Zhou, Z., Wang, Z., Chen, C., Lu, D., Lan, H., Wu, X., Xu, X., Yu, H., Yang, L. Transurethral prostate vaporization using an oval electrode in 82 cases of benign prostatic hyperplasia. Chin Med J (Engl). 1998 Jan; 111: 52-5

110080 Zhu, Y. S., Cai, L. Q., You, X., Cordero, J. J., Huang, Y., Imperato-McGinley, J. Androgen-induced prostate-specific antigen gene expression is mediated via dihydrotestosterone in LNCaP cells. J Androl. 2003 Sep-Oct; 24: 681-7

101480 Zhuang, T. N., Ly, L. P., Cumming, R. G., Handelsman, D. J. Growth and development during early manhood as determinants of prostate size in later life. J Clin Endocrinol Metab. 2005 Nov; 90: 6055-63

163680 Zia-ul-Miraj, M. Anterior urethral valves: a rare cause of infravesical obstruction in children. J Pediatr Surg. 2000 Apr; 35: 556-8

106260 Zielie, P. J., Mobley, J. A., Ebb, R. G., Jiang, Z., Blute, R. D., Ho, S. M. A novel diagnostic test for prostate cancer emerges from the determination of alpha-methylacyl-coenzyme a racemase in prostatic secretions. J Urol. 2004 Sep; 172: 1130-3

110150 Zigeuner, R. E., Lipsky, K., Riedler, I., Auprich, M., Schips, L., Salfellner, M., Pummer, K., Hubmer, G. Did the rate of incidental prostate cancer change in the era of PSA testing? A retrospective study of 1127 patients. Urology. 2003 Sep; 62: 451-5

119860 Zimmern, P. Medical treatment modalities for lower urinary tract symptoms: what are the relevant differences in randomised controlled trials?. Eur Urol. 2000; 38 Suppl 1: 18-24

161230 Zisman, A., Lindner, A., Zisman, E., Lindner, U., Mozes, E. Prostate-specific antigen induces proliferation of peripheral blood lymphocytes and cytokine secretion in benign prostate hypertrophy patients. Eur Urol. 1999 Sep; 36: 258-65

151700 Zitella, A., Berruti, A., Destefanis, P., Mengozzi, G., Torta, M., Ceruti, C., Casetta, G., Mosca, A., Greco, A., Rolle, L., Aimo, G., Aroasio, E., Tizzani, A., Dogliotti, L. and Fontana, D. Comparison between two commercially available chromogranin A assays in detecting neuroendocrine differentiation in prostate cancer and benign prostate hyperplasia. Clin Chim Acta. 2007; 377: 103-7

American Urological Association, Inc.

BPH Guidelines Panel

Master Bibliography

sorted by First Author and Title

116330 Zlotta, A. R., Djavan, B. Minimally invasive therapies for benign prostatic hyperplasia in the new millennium: long-term data. Curr Opin Urol. 2002 Jan; 12: 14-Jul

160850 Zlotta, A. R., Djavan, B., Damoun, M., Roumeguere, T., Petein, M., Entezari, K., Marberger, M., Schulman, C. C. The importance of measuring the prostatic transition zone: an anatomical and radiological study. BJU Int. 1999 Oct; 84: 661-6

110790 Zlotta, A. R., Giannakopoulos, X., Maehlum, O., Ostrem, T., Schulman, C. C. Long-term evaluation of transurethral needle ablation of the prostate (TUNA) for treatment of symptomatic benign prostatic hyperplasia: clinical outcome up to five years from three centers. Eur Urol. 2003 Jul; 44: 89-93

161650 Zlotta, A. R., Schulman, C. C. BPH and sexuality. Eur Urol. 1999; 36 Suppl 1: 107-12

102920 Zlotta, A. R., Teillac, P., Raynaud, J. P., Schulman, C. C. Evaluation of male sexual function in patients with Lower Urinary Tract Symptoms (LUTS) associated with Benign Prostatic Hyperplasia (BPH) treated with a phytotherapeutic agent (Permixon), Tamsulosin or Finasteride. Eur Urol. 2005 Aug; 48: 269-76

133830 Zommick, J. N., Simoneau, A. R., Skinner, D. G., Ginsberg, D. A. Continent lower urinary tract reconstruction in the cervical spinal cord injured population. J Urol. 2003 Jun; 169: 2184-7

156130 Zomorrodi, A. and Bohluli, A. Double urinary bladder voiding technique post removal of urethral catheter in renal allograft recipients. Saudi J Kidney Dis Transpl. 2007; 18: 532-5

160410 Zorn, B. H., Bauer, J. J., Ruiz, H. E., Thrasher, J. B. Randomized trial of safety and efficacy of transurethral resection of the prostate using contact laser versus electrocautery. Tech Urol. 1999 Dec; 5: 198-201

128280 Zougkas, K., Kalafatis, P., Ioannidis, S., Katsikas, V., Radopoulos, D. Assessment of obstruction in adult ureterocele by means of color Doppler duplex sonography. Urol Int. 2005; 75: 239-46

135270 Zozikov, B., Kunchev, S. I., Varlev, C. Application of clenbuterol in the treatment of urinary incontinence. Int Urol Nephrol. 2001; 33: 413-6

102990 Zucchetto, A., Tavani, A., Dal Maso, L., Gallus, S., Negri, E., Talamini, R., Franceschi, S., Montella, M., La Vecchia, C. History of weight and obesity through life and risk of benign prostatic hyperplasia. Int J Obes (Lond). 2005 Jul; 29: 798-803

110420 Zuo, W., Hiraoka, Y. Prostate-specific antigen levels and density in the internal and external glands of the prostate in benign prostatic hyperplasia patients with normal or gray-zone PSA levels. Urol Int. 2003; 71: 154-9

135620 Zurlo, A., Collette, L., van Tienhoven, G., Blank, L., Warde, P., Dubois, J., Jeanneret, W., Storme, G., Bernier, J., Kuten, A., Pierart, M., Bolla, M. Acute toxicity of conventional radiation therapy for high-risk prostate cancer in EORTC trial 22863. Eur Urol. 2002 Aug; 42: 125-32

108220 Zusman, R. Patients with uncontrolled hypertension or concomitant hypertension and benign prostatic hyperplasia. Clin Cardiol. 2004 Feb; 27: 63-9

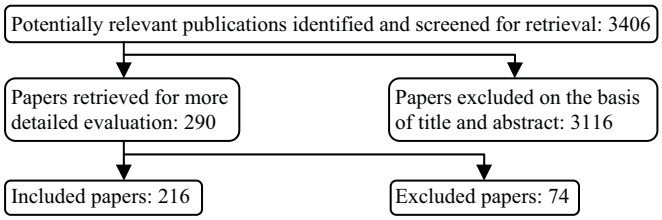
122210 Zusman, R. M. The role of alpha 1-blockers in combination therapy for hypertension. Int J Clin Pract. 2000 Jan-Feb; 54: 36-40

122720 Zvara, P., Plante, M. K. Re: Ethanol injection therapy of the prostate for benign prostatic hyperplasia: preliminary report on application of a new technique. J Urol. 2000 Feb; 163: 552-3

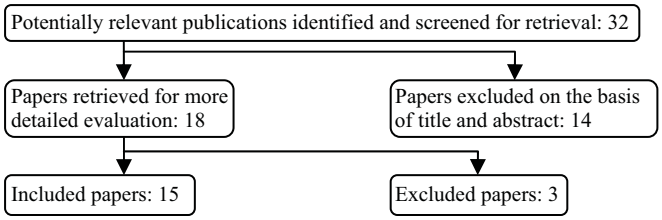
4546 articles listed

Appendix 4 QUOROM Tree

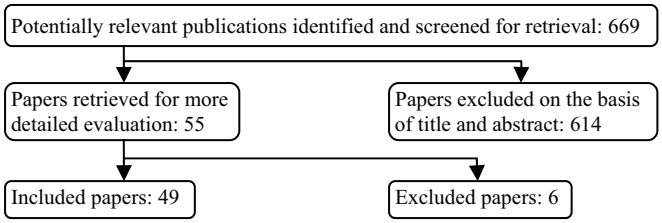
Update: 01.01.2000 – 12.31.2006



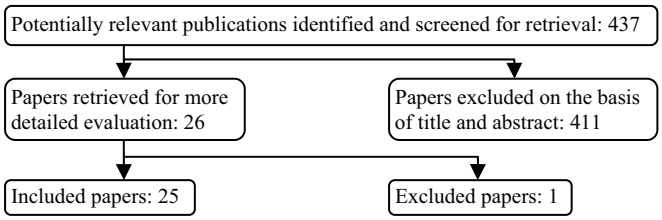
Update (articles from reference checking): Performed November 2007



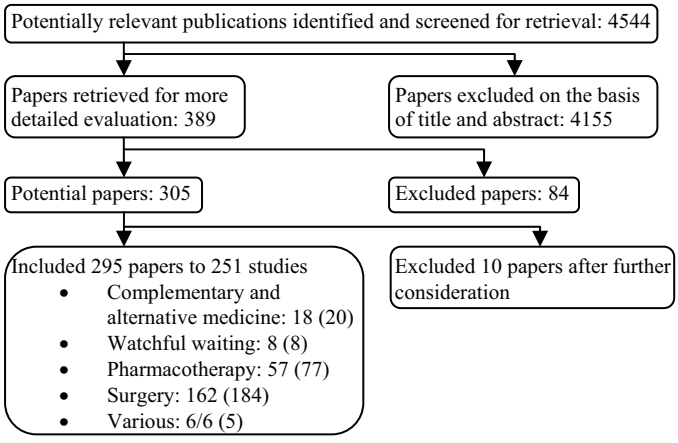
Update: 10.01.2006 – 03.31.2008



Update (gap search): 01.01.1999 – 06.30.2000



Total



Appendix A5

BPH Impact Index

Patient Name:_____ DOB:_____ ID:_____ Date of assessment: _____

Initial Assessment ( ) Monitor during:_____ Therapy ( ) after:_____ Therapy/surgery ( ) _____

BPH Impact Index

1. Over the past month how much physical discomfort did any urinary problems cause you?	None ☐ Only a little ☐ Some ☐ A lot ☐
2. Over the past month, how much did you worry about your health because of any urinary problems?	None ☐ Only a little ☐ Some ☐ A lot ☐
3. Overall, how bothersome has any trouble with urination been during the past month?	Not at all bothersome ☐ Bothers me some ☐ Bothers me a little ☐ Bothers me a lot ☐
4. Over the past month, how much of the time has any urinary problem kept you from doing the kind of things you would usually do?	None of the time ☐ Most of the time ☐ A little of the time ☐ All of the time ☐ Some of the time ☐
	Total Score: (Scoring based on 0-4 point scale)

Appendix 1-A: The American Urological Association (AUA) Symptom Index for Benign Prostatic Hyperplasia (BPH) and the Disease Specific Quality of Life Question

Patient Name: _____ DOB: _____ ID: _____ Date of assessment: _____

Initial Assessment ( ) Monitor during: _____ Therapy ( ) after: _____ Therapy/surgery ( ) _____

AUA BPH Symptom Score

	Not at all	Less than 1 time in 5	Less than half the time	About half the time	More than half the time	Almost always	
1. Over the past month, how often have you had a sensation of not emptying your bladder completely after you finished urinating?	0	1	2	3	4	5	
2. Over the past month, how often have you had to urinate again less than two hours after you finished urinating?	0	1	2	3	4	5	
3. Over the past month, how often have you found you stopped and started again several times when you urinated?	0	1	2	3	4	5	
4. Over the past month, how often have you found it difficult to postpone urination?	0	1	2	3	4	5	
5.Over the past month, how often have you had a weak urinary stream?	0	1	2	3	4	5	
6. Over the past month, how often have you had to push or strain to begin urination?	0	1	2	3	4	5	
	None	1 time	2 times	3 times	4 times	5 or more times	
7. Over the past month, how many times did you most typically get up to urinate from the time you went to bed at night until the time you got up in the morning?	0	1	2	3	4	5	
						Total Symptom Score	

The Disease Specific Quality of Life Question

The International Prostate Symptom Score uses the same 7 questions as the AUA Symptom Index (presented above) with the addition of the following Disease Specific Quality of Life Question (bother score) scored on a scale from 0 to 6 points (delighted to terrible):

"If you were to spend the rest of your life with your urinary condition just the way it is now, how would you feel about that?"

 Appendix 1-1

Appendix A7

Diagnostic Evaluation

The Panel decided that the diagnostic section of the 2003 Guideline required updating. After review of the recommendations for diagnosis published based on the 2005 International Consultation of Urologic Diseases and reiterated in 2009 in an article by Abrams et al, the panel unanimously agreed that the contents were valid and reflected "best practices" The diagnostic guidelines by Abrams et al are revisited below. In the classification of diagnostic tests and studies a recommended test should be performed on every patient during the initial evaluation whereas an optional test is a test of proven value in the evaluation of select patients. In general, optional tests are done during a detailed evaluation and performed by a urologist.

A basic evaluation should be performed on every patient presenting to a health care provider with lower urinary tract symptoms (LUTS; Figure 1.1) (Abrams 2009).

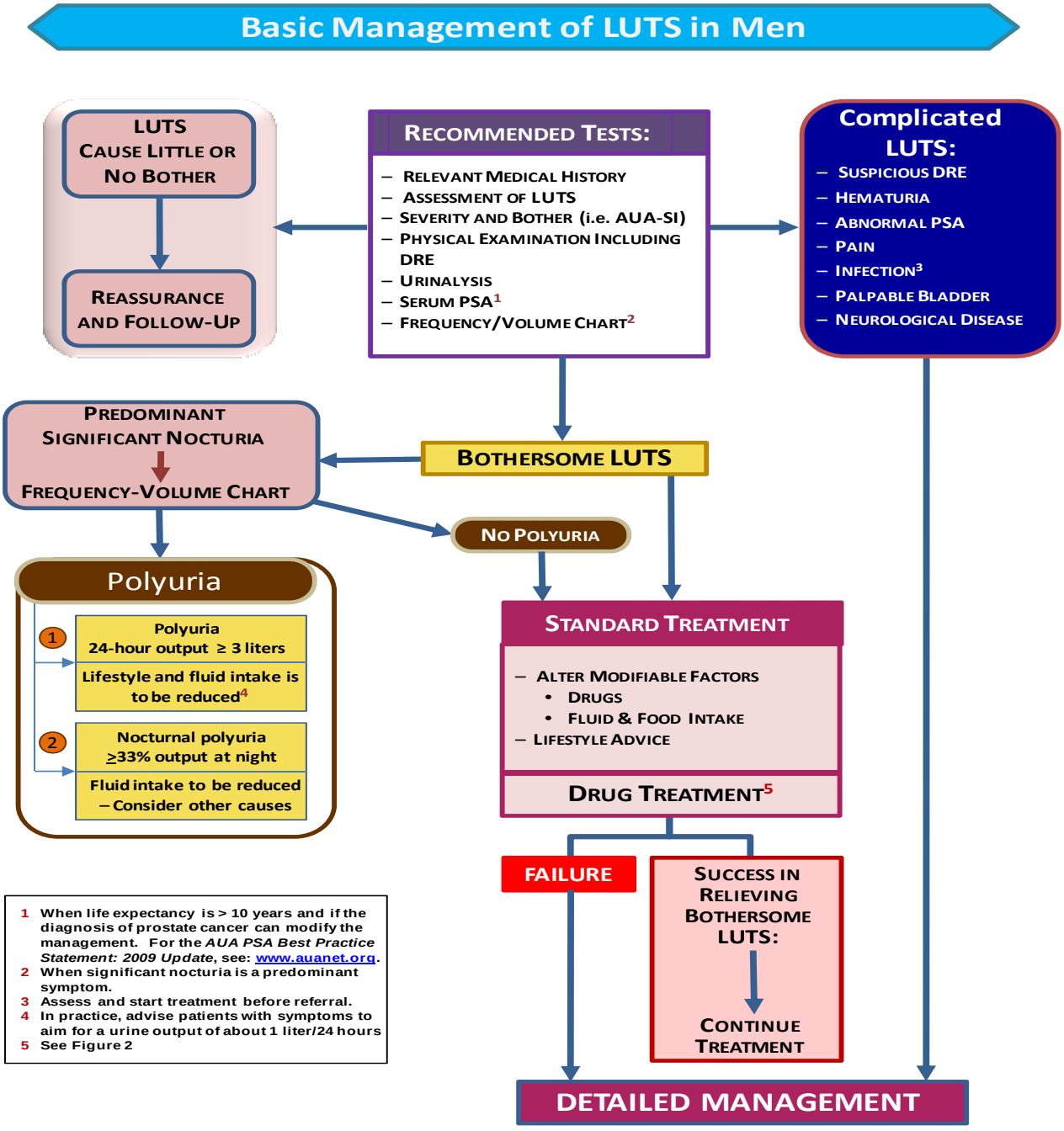


Figure 1.1. Basic management of lower urinary tract symptoms (LUTS) in men (adapted with permission from Abrams 2009). AUA-SI, American Urological Association Symptom Index; DRE, digital rectal exam; PSA, prostate-specific antigen.

History

The medical history should focus on the nature and duration of LUTS, sexual function, general health issues including fitness for invasive procedures, current medications, and prior surgical procedures that could affect LUTS.

Assessment of Symptoms and Bother

The American Urological Association Symptom Index (AUA-SI), Quality of Life (QoL) question, and the benign prostatic hyperplasia (BPH) Impact Index (BII) (see Appendices A5 and A6) are excellent, validated, quantitative assessment tools to evaluate symptoms and bother. A quantitative assessment of bother (as defined in the QoL question) is recommended to grade the severity of LUTS and to understand the degree of bother caused by those symptoms.

Physical Examination and Digital Rectal Exam

A focused physical examination should be performed to assess the suprapubic area for bladder distention, and motor and sensory function of the perineum and lower limbs. A digital rectal exam (DRE) should be performed to evaluate anal sphincter tone and the prostate gland with regard to approximate size, consistency, shape and abnormalities suggestive of prostate cancer.

The DRE estimation of prostate volume has been shown to be inaccurate when compared to transrectal ultrasound (TRUS). The volumes of small prostates tend to be overestimated and those of large glands tend to be underestimated. Training with a dedicated model has shown to improve the accuracy of DRE (Yanoshak, Roehrborn et al. 2000; Roehrborn, Sech et al. 2001).

Urinalysis

Urine should be analyzed using any of the widely available dipstick tests to determine if the patient has hematuria, proteinuria, pyuria or other pathological findings (eg, glucosuria, ketonuria, positive nitrite test, etc). Examination of the urinary sediment and culture is indicated if the results of the dipstick are abnormal. The results of urinalysis may guide additional testing independent of the evaluation for LUTS.

Serum Prostate-Specific Antigen Levels

As an alternative way of estimating prostate size, serum prostate-specific antigen (PSA) may be utilized, particularly when the key question is whether the prostate is greater or less than a threshold volume. For example, to achieve a specificity of 70% while maintaining a sensitivity between 65% and 70%, approximate age-specific criteria for detecting men with prostate glands exceeding 40 mL have been found to be PSA levels >1.6 ng/mL, >2.0 ng/mL, and >2.3 ng/mL for men with BPH in their 50s, 60s, and 70s, respectively (Roehrborn, Boyle et al. 1999). Similar findings were reported by other investigators (Bohnen, Groeneveld et al. 2007).

The benefits and risks of using serum PSA testing to diagnose prostate cancer should be discussed with the patient including the possibilities of false-positive and false-negative results, complications of subsequent TRUS-guided biopsy, and false-negative biopsies. For an update on the AUA's 2009 best practice statement on PSA, please see http://www.auanet.org/content/guidelines-and-quality-care/clinical-guidelines/main-reports/psa09.pdf.

Frequency Volume Charts

Frequency volume charts (voiding diary or time and amount voiding charts) should be used when nocturia is the dominant symptom but may also be used in other settings. The time and voided volume are recorded for each micturition during several 24-hour periods and help to identify patients with isolated nocturnal polyuria or excessive fluid intake, which are common in the aging male.

Detailed Evaluation and Recommended Tests

Detailed Quantification of Symptoms by Standardized Questionnaires

When patients present with LUTS, the use of the AUA-SI for the objective documentation of symptom frequency from the patient's perspective is highly recommended (Figure 1.2) (Abrams 2009). The BII can also be used.

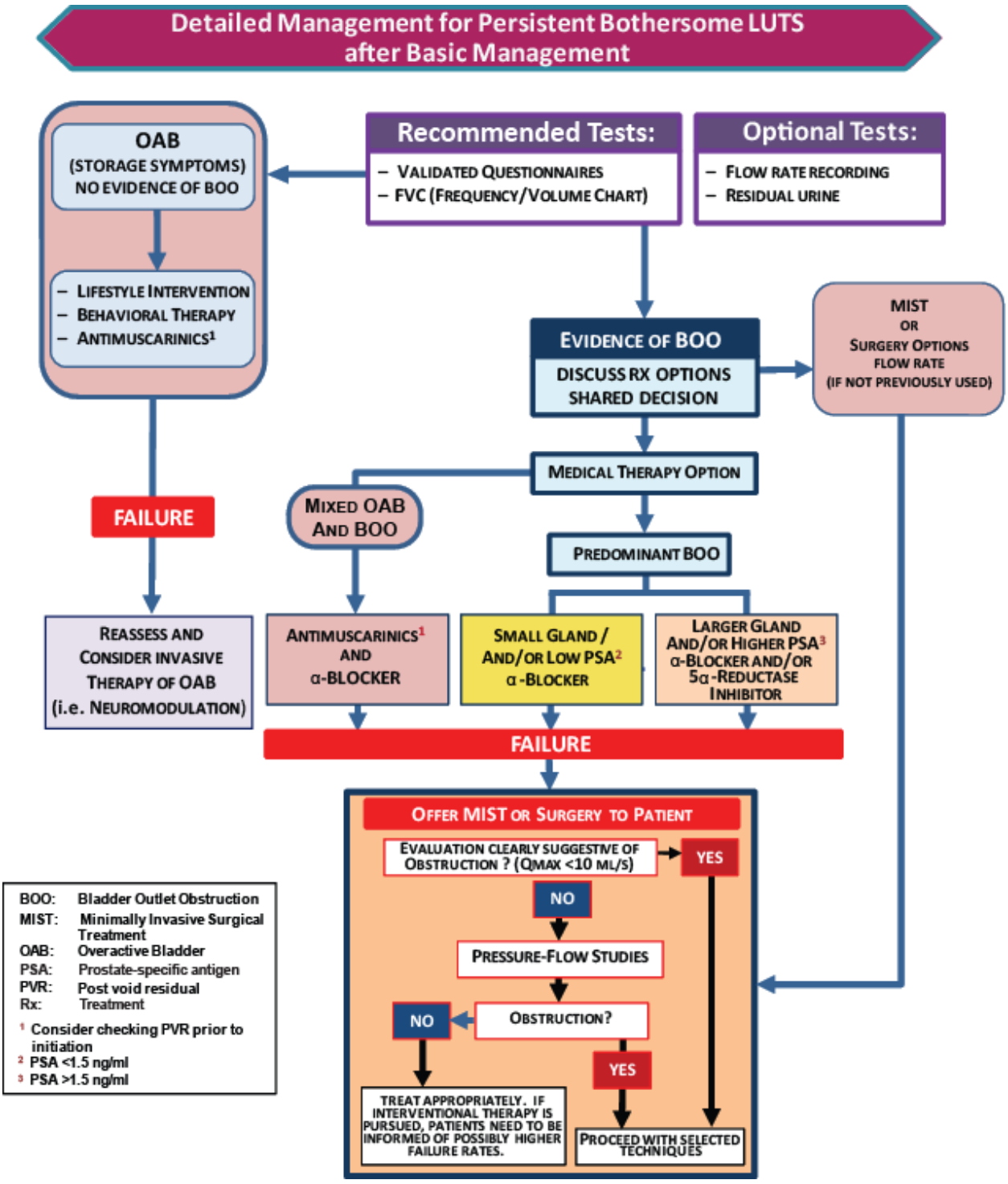


Figure 1.2. Detailed management of persistent, bothersome lower urinary tract symptoms (LUTS) after basic management (adapted with permission from Abrams 2009).

Flow Rate Recording

Urinary flow rate measurement is optional. It is useful in the initial diagnostic assessment and during or after treatment to confirm response. Despite the noninvasive nature of the test and its clinical value, it is an optional test in the detailed evaluation to be performed before embarking on any invasive therapy. Peak urinary flow (Qmax) is the best single measure to estimate the probability of a patient to be urodynamically obstructed, but a low Qmax does not distinguish between obstruction and decreased detrusor contractility. Because of the intra-individual variability and the volume dependency of the Qmax, at least 2 flow rates should be obtained, ideally both with a volume greater than 150 mL voided urine.

Residual Urine

The determination of post void residual urine is optional in the initial diagnostic assessment of the patient and during subsequent monitoring as a safety parameter. The determination is best performed by noninvasive transabdominal ultrasonography. Because of the marked intra-individual variability of residual urine volume, the test should be repeated to improve precision, particularly if the first residual urine volume is significant and suggests a change in the treatment plan.

Pressure Flow Studies

Pressure flow studies**,** although invasive, are the only tests that directly measure the relative contribution of the bladder, bladder outlet, and prostate to lower urinary tract function, dysfunction, or LUTS. They are not indicated in the routine evaluation of men with LUTS or to predict the response to medical therapy but may be beneficial in cases in which Qmax is greater than 10 mL per second to determine the need for invasive therapy to relieve BOO. A pressure flow study is the only method with the potential to distinguish men with a low urinary flow rate due to detrusor underactivity from those with BOO. This distinction is made by relating detrusor pressure at maximum urinary flow rate to the maximum flow rate.

Prostate Imaging with Transabdominal or Transrectal Ultrasound

When residual urine is determined by transabdominal ultrasonography with a machine generating real-time B-mode images, prostate shape, size, configuration and protrusion into the bladder may be simultaneously evaluated. Outside of this context, imaging of the prostate by transabdominal or transrectal ultrasound is optional in selected patients. The success of certain treatments may depend on anatomical characteristics of the prostate gland (eg, hormonal therapy, thermotherapy, or transurethral incision of the prostate). When such treatments are planned, transabdominal or TRUS may be used to assess prostatic size and shape. In men with serum PSA increased above the locally accepted reference

range, TRUS is the method of choice to evaluate the prostate and to guide a needle biopsy of suspicious areas, or to perform systematic biopsies to rule out prostate cancer.

Upper Urinary Tract Imaging with Ultrasonography

Although imaging of the upper urinary tract by computerized tomography (or intravenous urography or ultrasonography) is not recommended as a routine procedure, it may be indicated in patients presenting with 1 or more of the signs or symptoms, history of upper urinary tract infection (UTI) or urolithiasis, renal insufficiency (in this case ultrasonography is the preferred imaging study), and recent onset nocturnal enuresis. Upper tract imaging is also indicated for hematuria (microscopic or macroscopic) if conditions suggestive of primary renal disease are not present or if any of the following are present in the patient with microscopic findings: smoking history; occupational exposure to chemicals or dyes; history of gross hematuria; age greater than 40 years; previous urologic disorder or disease; history of irritative voiding symptoms; or history of recurrent UTIs (AUA Best Practice Statement on Asymptomatic Microscopic Hematuria).

Endoscopy of Lower Urinary Tract

Endoscopic evaluation of the lower urinary tract is not recommended in an otherwise healthy patient with an initial evaluation consistent with BOO, although it has certain indications as previously described for imaging. There are treatment alternatives in which success or failure depends on the anatomical configuration of the prostate (eg, transurethral incision of the prostate, thermotherapy, etc). Endoscopy is recommended if considered helpful when such treatment alternatives are contemplated.

Basic Management

If initial evaluation demonstrates the presence of LUTS associated with one or more of the findings of DRE suspicious of prostate cancer, hematuria, abnormal PSA levels, recurrent infection, palpable bladder, history/risk of urethral stricture, or a neurological disease raising the likelihood of a primary bladder disorder, the patient should be referred to a urologist for appropriate evaluation before advising treatment (Figure 1.1).

When initial evaluation demonstrates the presence of LUTS only, with or without some degree of nonsuspicious prostate enlargement, if the symptoms are not significantly bothersome or if the patient does not want treatment, no further evaluation is recommended. The patient is reassured and can be seen again if necessary. This recommendation is based on the opinion that this category of patients with nonbothersome LUTS is unlikely to experience significant health problems in the future due to their condition.

In patients with bothersome symptoms, it is now recognized that LUTS has a number of causes that may occur singly or in combination. Among the most important are benign prostatic obstruction, an overactive bladder and nocturnal polyuria. The physician can discuss treatment alternatives with the

patient based on the results of initial evaluation with no further tests being needed. (See Figure 1.1 Recommended Tests.) There should be a discussion of the benefits and risks involved with each of the recommended treatment alternatives (watchful waiting, medical, interventional surgical, or minimally invasive surgical treatments [MIST]). The choice of treatment is reached in a shared decision-making process between the physician and patient.

If the patient has predominant significant nocturia and gets out of bed to void 2 or more times per night, it is recommended that the patient complete a frequency volume chart for 2-3 days. The frequency volume chart will show 24-hour polyuria or nocturnal polyuria when present, the first of which has been defined as greater than 3 liters total output over 24 hours. In practice, patients with bothersome symptoms are advised to aim for a urine output of 1 liter/24 hours. Nocturnal polyuria is diagnosed when more than 33% of the 24-hour urine output occurs at night. The patient should be treated according to the nocturia algorithm (Figure 1.1), ie, fluid intake should be reduced and treatments such as desmopressin can be considered. If symptoms do not improve sufficiently he can be treated along the same lines as men without predominant nocturia.

If the patient has no polyuria and medical treatment is considered, the physician can proceed with therapy based mainly on first altering modifiable factors such as concomitant drugs, regulation of fluid intake especially in the evening, lifestyle changes (avoiding a sedentary lifestyle) and dietary advice (avoiding dietary indiscretions such as excessive intake of alcohol and highly seasoned or irritative foods) (Brown 1997).

If treated pharmacologically, it is recommended that the patient be followed to assess treatment success or failure and possible adverse events. The time after initiation of therapy for the assessment of treatment success varies according to the pharmacological treatment prescribed and is usually 2 to 4 weeks for alpha blocker therapy and at least 3 months for a 5α-reductase inhibitor.

If treatment is successful and the patient is satisfied, follow-up should be repeated approximately once a year by repeating the initial evaluation as previously outlined. The follow-up strategy will allow the physician to detect any changes that have occurred in the last year, more specifically, if symptoms have progressed or become more bothersome, or if a complication has developed creating an indication imperative for surgery. If medical treatment fails and the patient is not satisfied, he should be referred to a urologist (if not already doing so) for further evaluation and possibly interventional treatment.

Detailed Management

If the patient's LUTS are being managed by a primary care giver and the patient has persistent bothersome LUTS after basic management then a urologist should be consulted (if not done already). The urologist may use additional testing beyond those tests recommended for basic evaluation.

If drug therapy is considered, decisions will be influenced by coexisting overactive bladder symptoms and prostate size or serum PSA levels. If there are coexisting BOO and overactive bladder

symptoms, then the patient can be treated with alpha blocker and anticholinergic combination therapy. When BOO symptoms predominate, alpha adrenergic blocking agents are the first treatment of choice for LUTS due to BPH. However, alpha blockers alone, 5-alpha-reductase inhibitors (5-ARIs) alone, and/or combination therapy with an alpha blocker and 5-ARI have shown the greatest efficacy when the prostate is enlarged as assessed by PSA levels, TRUS or on DRE (Figure 1.2). As always, the decision for choice of therapy should be decided in concert with the patient's wishes and concerns.

If storage symptoms predominate, an overactive bladder due to idiopathic detrusor overactivity is the most likely cause if there is no indication of BOO from flow study. The treatment options of lifestyle intervention (fluid intake alteration), behavioral modification and pharmacotherapy (anticholinergic drugs) should be discussed with the patient. **It is the expert opinion of the Panel that some may benefit using a combination of all 3 modalities. Should improvement be insufficient and symptoms severe, then newer modalities of treatment such as botulinum toxin and sacral neuromodulation can be considered.**

It is recommended that the patient be followed to assess treatment success or failure and possible adverse events according to the section on basic management above.

Interventional Therapy

If the patient elects to have interventional therapy and there is sufficient evidence of obstruction, patient and urologist should discuss the benefits and risks of the various interventions. Transurethral resection is still the gold standard for interventional treatment but, when available, new interventional therapies could be discussed. The techniques accepted for clinical use are summarized in the guideline.

If the patient's condition is not sufficiently suggestive of obstruction, eg, Qmax >10 mL/sec, pressure flow studies are optional as treatment failure rates are somewhat higher in the absence of obstruction. If interventional therapy is planned without clear evidence of the presence of obstruction, the patient needs to be informed of possible higher failure rates of the procedure.

Appendix A8

Table 3.1. Alfuzosin

Table 3.1a. Characteristics of alfuzosin randomized, controlled trials

Author, Year, Country Study duration	Total sample size Treatment groups (sample size*) Formulation	Demographic characteristics of the comparison group	Run-in period	Outcomes reported
Alfuzosin compared with placebo				
McNeill SA, 2005 Europe and south Africa ALFAUR Study Phase 1: 3d Phase 2: 6m	360 Phase 1: Alfuzosin 10mg QD (238) Placebo QD (122) Phase 2 Alfuzosin 10mg QD (82) Placebo QD (83) Formulation: not specified	Age: 69.3(8.3) Total I-PSS: NR Qmax: NR First episode of AUR at baseline	Run-in: none, placebo	Phase 1 TWOC failure Phase 2 Failure-free survival rates (surgery not needed) I-PSS score
Roehrborn CG, 2001 USA and Canada 3m	536 Alfuzosin 10mg QD (170) Alfuzosin 15mg QD (165) Placebo QD (167) Formulation: not specified	Age: 63.6(NR) Total I-PSS: 21.5 Qmax: 8.4	Run-in: 4w, placebo	I-PSS scores Qmax Withdrawal incidence Adverse events
Roehrborn, 2003 North American, Europe Meta-analysis of 3 trials: Van Kerrebroek 2000, Roehrborn 2001, and unpublished study 3m (84 d)	955 Alfuzosin 10mg QD (473) Placebo QD (482) Formulation: not specified	Age: 63.7(NR) Total I-PSS: 18.7(4.4) Qmax: NR	Run-in: 1m, placebo	I-PSS scores PFR Withdrawal incidence Adverse events
Roehrborn CG, 2006 Multicenter, international ALTESS 2y	1522 Alfuzosin 10mg QD (749) Placebo QD (757) Formulation: not specified	Age: 66.5(6.9) Total I-PSS: 19.2(4.7) Qmax: 8.8(2.0)	Run-in: unclear	I-PSS scores Qmax AUR rates Withdrawal incidence Adverse events

Van Kerrebroeck P, 2000 Netherlands RCT 3m	447 Alfuzosin 10mg QD (137) Alfuzosin 2.5mg TID (147) Placebo TID (152) Formulation: not specified	Age: 64.6(7.5) Total I-PSS: 17.8(4.3) Qmax: 9.1(2.0)	Run-in: 1m, placebo	I-PSS scores Qmax Withdrawal incidence Adverse events
Alfuzosin compared with doxazosin				
De Reijke TM, 2004 Netherlands, Denmark 14w	210 Dose titrated over time and with effect 2.5mg BID to TID, and 5mg BID; mean: 8.8mg/day (93) 1-8mg QD; mean: 6.1mg/day (87) Formulation: not specified	Age: 62.8(7.4) Total I-PSS: 19.1(5.2) Qmax: 5.1(2.0)	Run in: 2w, doxazosin	I-PSS scores PVR Qmax Withdrawal incidence

* Number of patients randomized
Data are reported as mean (standard deviation) unless otherwise indicated.

Table 3.1b. Efficacy and effectiveness outcomes in alfuzosin randomized, controlled trials

Author, Year Study duration	Intervention (no. of patients assessed)	Baseline [mean (SD)]	Endpoint [mean (SD)]	Within group difference (within group P-value)	Between group difference (P-value)
Total International Prostate Symptom Score (I-PSS)					
Alfuzosin compared with placebo					
McNeill SA, 2005	Alfuzosin 10mg QD (82)	NR	8.75(NR)	NR	Vs placebo: NR (P=0.012)
6m	Placebo QD (83)	NR	11.45(NR)	NR	NR
Roehrborn CG, 2001	Alfuzosin 10mg QD (170)	18.2(6.3)	NR	-3.6 (NR)	Vs placebo: -2.0 (P=0.001)
3m	Alfuzosin 15mg QD (165)	17.7(5.7)	NR	-3.4 (NR)	Vs placebo: -1.8 (P=0.004)
	Placebo QD (167)	18.2(6.4)	NR	-1.6 (NR)	NR
Roehrborn CG, 2003	Alfuzosin 10mg QD (473)	18.7(4.6)	12.7(6.1)	-6.0 (NR)	Vs placebo: -1.8 (P<0.001)
3m	Placebo QD (482)	18.8(4.4)	14.6(6.8)	-4.2 (NR)	NR
Roehrborn CG, 2006	Alfuzosin 10mg QD (749)	19.2(4.7)	NR	-5.9 (NR)	Vs placebo: -1.2 (P=0.0017)
2y	Placebo QD (757)	19.2(4.7)	NR	-4.7 (NR)	NR
Van Kerrebroeck P, 2000	Alfuzosin 10mg QD (137)	17.3(3.5)	10.4(4.7)	-6.9 (NR)	Vs placebo: -2.0 (P=0.002)
	Alfuzosin 2.5mg TID (147)	16.8(3.7)	10.5(6.1)	-6.4 (NR)	Vs placebo: -1.5 (P=0.02)
3m	Placebo QD (152)	17.7(4.1)	12.8(6.7)	-4.9 (NR)	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004	Alfuzosin 2.5mg BID/TID (87)	18.0(4.8)	NR	-7.5 (P<0.00)	Vs doxazosin: 1.7 (P<0.05)
14w	Doxazosin 1-8mg/day (93)	19.1(5.2)	NR	-9.2 (P<0.001)	NR
Quality of Life (QoL) Sub-score					
Alfazosin compared with placebo					
McNeil SA, 2005	Alfuzosin 10mg QD (82)	NR	1.66(NR)	NR	Vs placebo: NR (0.004)
6m	Placebo QD (83)	NR	2.27(NR)	NR	NR
Roehrborn CG, 2001	Alfuzosin 10mg QD (170)	3.8(1.1)	NR	-0.7 (NR)	Vs placebo: -0.4 (P=0.002)
3m	Alfuzosin 15mg QD (165)	3.7(1.1)	NR	-0.7 (NR)	Vs placebo: -0.4 (P=0.002)
	Placebo QD (167)	3.7(1.1)	NR	-0.3 (NR)	NR
Roehrborn CG, 2003	Alfuzosin 10mg QD (473)	3.6(1.0)	2.6(1.2)	-1.0 (NR)	Vs placebo: -0.3 (P<0.001)

3m	Placebo QD (482)	3.6(1.0)	2.9(1.3)	-0.7 (NR)	NR
Roehrborn CG, 2006	Alfuzosin 10mg QD (749)	3.8(1.1)	NR	-1.3 (NR)	Vs placebo: -0.4 (P<0.001)
2y	Placebo QD (757)	3.8(1.1)	NR	-0.9 (NR)	NR
Van Kerrebroeck P, 2000	Alfuzosin 10mg QD (137)	3.3(0.9)	2.2(1.1)	-1.1 (NR)	Vs placebo: -0.5 (P=0.0008)
	Alfuzosin 2.5mg TID (147)	3.3(1.0)	2.2(1.1)	-1.0 (NR)	Vs placebo: -0.4 (P=0.005)
3m	Placebo QD (152)	3.3(1.0)	2.6(1.3)	-0.6 (NR)	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004	Alfuzosin 2.5mg BID/TID	NR	NR	NR	NR
14w	Doxazosin 1-8mg/day	NR	NR	NR	NR
Filling Sub-score					
Alfuzosin compared with placebo					
McNeill SA, 2005	Alfuzosin 10mg QD (82)	NR	NR	NR	NR
6m	Placebo QD (83)	NR	NR	NR	NR
Roehrborn CG, 2001	Alfuzosin 10mg QD (170)	8.1(3.0)	NR	-1.4 (NR)	Vs placebo: -1.0 (P=0.0006)
3m	Alfuzosin 15mg QD (165)	7.9(2.5)	NR	-1.3 (NR)	Vs placebo: -0.9 (P=0.003)
	Placebo QD (167)	7.9(3.0)	NR	-0.4 (NR)	NR
Roehrborn CG, 2003	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
3m	Placebo QD (482)	NR	NR	NR	NR
Roehrborn CG, 2006	Alfuzosin 10mg QD (749)	NR	NR	NR	NR
2y	Placebo QD (757)	NR	NR	NR	NR
Van Kerrebroeck P, 2000	Alfuzosin 10mg QD (137)	6.8(2.5)	4.6(2.5)	-2.3 (NR)	Vs placebo: -0.7 (P=0.02)
	Alfuzosin 2.5mg TID (147)	6.7(2.5)	4.5(2.8)	-2.2 (NR)	Vs placebo: -0.6 (P=0.04)
3m	Placebo QD (152)	7.0(2.6)	5.4(2.9)	-1.6 (NR)	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004	Alfuzosin 2.5mg BID/TID	NR	NR	NR	NR
14w	Doxazosin 1-8mg/day	NR	NR	NR	NR
Voiding Sub-Score					
Alfuzosin compared with placebo					
McNeill SA,	Alfuzosin 10mg QD (82)	NR	NR	NR	NR

2005 6m	Placebo QD (83)	NR	NR	NR	NR
Roehrborn CG, 2001 3m	Alfuzosin 10mg QD (170)	10.1(4.4)	NR	-2.2 (NR)	Vs placebo: -1.1 (P=0.02)
	Alfuzosin 15mg QD (165)	9.9(4.1)	NR	-2.1 (NR)	Vs placebo: -1.0 (P=0.03)
	Placebo QD (167)	10.3(4.3)	NR	-1.1 (NR)	NR
Roehrborn CG, 2003 3m	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
	Placebo QD (482)	NR	NR	NR	NR
Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (749)	NR	NR	NR	NR
	Placebo QD (757)	NR	NR	NR	NR
Van Kerrebroeck P, 2000 3m	Alfuzosin 10mg QD (137)	10.4(3.2)	5.8(3.4)	-4.6 (NR)	Vs placebo: -1.3 (P=0.005)
	Alfuzosin 2.5mg TID (147)	10.1(2.9)	6.0(4.1)	-4.2 (NR)	Vs placebo: -0.9 (P=0.055)
	Placebo QD (152)	10.7(3.2)	7.4(4.5)	-3.3 (NR)	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004 14w	Alfuzosin 2.5mg BID/TID	NR	NR	NR	NR
	Doxazosin 1-8mg/day	NR	NR	NR	NR
Post Void Residual (PVR) (mL)					
Alfuzosin compared with placebo					
McNeill SA, 2005 6m	Alfuzosin 10mg QD (82)	NR	NR	NR	NR
	Placebo QD (83)	NR	NR	NR	NR
Roehrborn CG, 2001 3m	Alfuzosin 10mg QD (170)	NR	NR	NR	NR
	Alfuzosin 15mg QD (165)	NR	NR	NR	NR
	Placebo QD (167)	NR	NR	NR	NR
Roehrborn CG, 2003 3m	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
	Placebo QD (482)	NR	NR	NR	NR
Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (749)	95.3(75.0)	NR	NR	NR
	Placebo QD (757)	89.0(69.8)	NR	NR	NR
Van Kerrebroeck P, 2000	Alfuzosin 10mg QD (137)	NR	NR	NR	NR
	Alfuzosin 2.5mg TID (147)	NR	NR	NR	NR
	Placebo QD (152)	NR	NR	NR	NR

3m					
Alfuzosin compared with doxazosin					
De Reijke TM, 2004	Alfuzosin 2.5mg BID/TID	75.4(73.8)	NR	+9.6 (P>0.05)	Vs placebo: +38.8 (P<0.05)
14w	Doxazosin 1-8mg/day	69.3(63.6)	NR	-29.2 (P<0.001)	NR
Qmax (mL/s)					
Alfuzosin compared with placebo					
McNeill SA, 2005	Alfuzosin 10mg QD (82)	NR	NR	NR	NR
6m	Placebo QD (83)	NR	NR	NR	NR
Roehrborn CG, 2001	Alfuzosin 10mg QD (170)	NR	NR	1.7 (NR)	Vs placebo: 1.5 (P=0.0004)
3m	Alfuzosin 15mg QD (165)	NR	NR	0.9 (NR)	Vs placebo: 0.7 (P=0.12)
	Placebo QD (167)	NR	NR	0.2 (NR)	NR
Roehrborn CG, 2003	Alfuzosin 10mg QD (473)	8.8(1.9)	11.2(4.0)	2.3 (NR)	Vs placebo: 1.2 (P=0.001)
3m	Placebo QD (482)	8.8(1.9)	9.9(3.1)	1.1 (NR)	NR
Roehrborn CG, 2006	Alfuzosin 10mg QD (749)	8.9(2.0)	NR	12m: 2.0 (NR)	Vs placebo: 0.7 (NR)
2y	Placebo QD (757)	8.8(2.0)	NR	12m: 1.3 (NR)	NR
Van Kerrebroeck P, 2000	Alfuzosin 10mg QD (137)	9.4(1.9)	11.7(3.9)	2.3 (NR)	Vs placebo: 0.9 (P=0.03)
	Alfuzosin 2.5mg TID (147)	8.7(1.9)	11.9(4.3)	3.2 (NR)	Vs placebo: 1.8 (P<0.0001
3m	Placebo QD (152)	9.2(2.0)	10.6(3.3)	1.4 (NR)	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004	Alfuzosin 2.5mg BID/TID	10.6(3.1)	NR	2.9 (P<0.001)	Vs placebo: -0.1 (P>0.05)
14w	Doxazosin 1-8mg/day	10.0(3.3)	NR	3.0 (P<0.001)	NR
Acute Urinary Retention					
Alfuzosin compared with placebo					
McNeill SA, 2005	Alfuzosin 10mg QD (82)	3m: 64%	NR	NR	NR
6m	Placebo QD (83)	3m: 97%	NR	NR	NR
Roehrborn CG, 2001	Alfuzosin 10mg QD (170)	NR	NR	NR	NR
	Alfuzosin 15mg QD (165)	NR	NR	NR	NR
3m	Placebo QD (167)	NR	NR	NR	NR
Roehrborn CG, 2003	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
3m	Placebo QD (482)	NR	NR	NR	NR

Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (749)	2.1% (16/754)	NR	NR	Vs placebo: NR (P=0.82)
	Placebo QD (757)	8.2% (14/761)	NR	NR	NR
Van Kerrebroeck P, 2000 3m	Alfuzosin 10mg QD (137)	NR	NR	NR	NR
	Alfuzosin 2.5mg TID (147)	NR	NR	NR	NR
	Placebo QD (152)	NR	NR	NR	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004 14w	Alfuzosin 2.5 mg BID/TID	NR	NR	NR	NR
	Doxazosin 1-8 mg/day	NR	NR	NR	NR
Prostate Volume					
Alfuzosin compared with placebo					
McNeill SA, 2005 6m	Alfuzosin 10mg QD (82)	NR	NR	NR	NR
	Placebo QD (83)	NR	NR	NR	NR
Roehrborn CG, 2001 3m	Alfuzosin 10mg QD (170)	40.2	NR	NR	NR
	Alfuzosin 15mg QD (165)	38.3	NR	NR	NR
	Placebo QD (167)	36.8	NR	NR	NR
Roehrborn CG, 2003 3m	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
	Placebo QD (482)	NR	NR	NR	NR
Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (749)	NR	NR	NR	NR
	Placebo QD (757)	NR	NR	NR	NR
Van Kerrebroeck P, 2000 3m	Alfuzosin 10mg QD (137)	NR	NR	NR	NR
	Alfuzosin 2.5mg TID (147)	NR	NR	NR	NR
	Placebo QD (152)	NR	NR	NR	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004 14w	Alfuzosin 2.5mg BID/TID	NR	NR	NR	NR
	Doxazosin 1-8mg/day	NR	NR	NR	NR
Detrusor Pressure @ Qmax (cmH20)[a]					
PSA (ng/mL)					
Alfuzosin compared with placebo					
McNeill SA, 2005	Alfuzosin 10mg QD (82)	7.7(22.9)	NR	NR	NR
	Placebo QD (83)	7.4(11.1)	NR	NR	NR

6m					
Roehrborn CG, 2001 3m	Alfuzosin 10mg QD (170)	NR	NR	NR	NR
	Alfuzosin 15mg QD (165)	NR	NR	NR	NR
	Placebo QD (167)	NR	NR	NR	NR
Roehrborn CG, 2003 3m	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
	Placebo QD (482)	NR	NR	NR	NR
Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (749)	NR	NR	-0.6% (NR)	Vs placebo: -4.2% (P=0.07)
	Placebo QD (757)	NR	NR	3.6% (NR)	NR
Van Kerrebroeck P, 2000 3m	Alfuzosin 10mg QD (137)	NR	NR	NR	NR
	Alfuzosin 2.5mg TID (147)	NR	NR	NR	NR
	Placebo QD (152)	NR	NR	NR	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004 14w	Alfuzosin 2.5mg BID/TID	NR	NR	NR	NR
	Doxazosin 1-8mg/day	NR	NR	NR	NR
Surgical Treatment					
Alfuzosin compared with placebo					
McNeill SA, 2005 6m	Alfuzosin 10mg QD (82)	Failure-free survival (no need for BPH-related surgery) % needing surgery 3m: 10.4% (8/77) 6m: 19.7% (14/71) Improvement in survival, alfuzosin vs placebo: 3m: 11.4% (95% CI, 0.2 to 19.0%) 6m: 8.3% (95% CI, -4.6 to 21.3%)	NR	NR	Vs placebo: 3m: NR (P=0.04) 6m: NR (P=0.20)
	Placebo QD (83)	Failure-free survival (no need for BPH-related surgery) % needing	NR	NR	NR

		surgery 3m: 26.1% (17/65) 6m: 35.7% (20/56)			
Roehrborn CG, 2001 3m	Alfuzosin 10mg QD (170)	NR	NR	NR	NR
	Alfuzosin 15mg QD (165)	NR	NR	NR	NR
	Placebo QD (167)	NR	NR	NR	NR
Roehrborn CG, 2003 3m	Alfuzosin 10mg QD (473)	NR	NR	NR	NR
	Placebo QD (482)	NR	NR	NR	NR
Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (749)	5.1% (38/754) Absolute risk reduction: Vs placebo 22 (95% CI, -18 to 48)	NR	NR	Vs placebo: NR (P=0.18)
	Placebo QD (757)	6.5% (49/761)	NR	NR	NR
Van Kerrebroeck P, 2000 3m	Alfuzosin 10mg QD (137)	NR	NR	NR	NR
	Alfuzosin 2.5mg TID (147)	NR	NR	NR	NR
	Placebo QD (152)	NR	NR	NR	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004 14w	Alfuzosin 2.5mg BID/TID	NR	NR	NR	NR
	Doxazosin 1-8mg/day	NR	NR	NR	NR

[a]No studies reported this outcome.

Table 3.1c: Withdrawal and adverse event rates for alfuzosin randomized, controlled trials

Author, Year Study duration	Overall withdrawal rate	Treatment (no. of patients randomized)	Withdrawal by treatment group	Withdrawal due to adverse effects	Percent of patients with 1 or more treatment-emergent adverse effects
Alfuzosin compared with placebo					
McNeill SA, 2005 Phase 1: 2d Phase 2: 6m	Phase 1: 1.4% (5/360)	Alfuzosin 10mg QD (238)	1.7% (4/238)	2.8% (10/360)	8.4% (20/238)
		Placebo QD (122)	0.8% (1/122)	NR	13.1% (16/122)
	Phase 2: 3.0% (5/165)	Alfuzosin 10mg QD (82)	1.2% (1/82)	NR	20.7% (17/82)
		Placebo QD (83)	4.8% (4/83)	NR	18.1% (15/83)
Roehrborn CG, 2001 3m	13.4% (72/536)	Alfuzosin 10mg QD (177)	11.3% (20/177)	4.5% (8/177)	52%
		Alfuzosin 15mg QD (181)	17.7% (32/181)	4.4% (8/181)	43%
		Placebo QD (178)	11.2% (20/178)	2.2% (4/178)	43%
Roehrborn CG, 2003 3m	9.1% (87/955)	Alfuzosin 10mg QD (473)	9.5% (45/473)	NR	NR
		Placebo QD (482)	8.7% (42/482)	NR	NR
Roehrborn CG, 2006 2y	33.9% (513/1513)	Alfuzosin 10mg QD (754)	30.5% (230/754)	9.3% (69/754)	53.1% (400/754)
		Placebo QD (761)	37.2% (283/761)	7.6% (58/761)	51.2% (390/761)
Van Kerrebroeck P, 2000 3m	9.0% (40/446)	Alfuzosin 10mg QD (143)	11.2% (16/143)	4.5% overall	NR
		Alfuzosin 2.5mg TID (149)	9.4% (14/149)	NR	NR
		Placebo QD (154)	6.5% (10/154)	NR	NR
Alfuzosin compared with doxazosin					
De Reijke TM, 2004 14w	16% (30/192)	Alfuzosin 2.5mg BID/TID (93)	19.4% (18/93)	7.5% (7/93)	50.5%
		Doxazosin 1-8mg/day (99)	12.1% (12/99)	12.1% (12/99)	48.5%

Table 3.1d. Adverse events in alfuzosin randomized, controlled trials

Author, year Study duration	Intervention (no. of patients assessed)	Mortality	Cardiovascular					Central Nervous System				GI	Intraoperative Floppy Iris Syndrome	Sexual function	
			Dizziness	Hypotension	Orthostatic Hypotension	Syncope	Other cardiovascular	Asthenia/ fatigue	Headache	Malaise	Somnolence	Diarrhea, other		Ejaculation disorder	Erectile dysfunction
McNeill SA, 2005 Phase 1: 2d Phase 2: 6m	Phase 1: Alfuzosin 10mg QD (238)	0%	Vasodilatory adverse effects: 2.5% (6/238)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Placebo QD (122)	0%	Vasodilatory adverse effects: 0.8% (1/122)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Phase 2 Alfuzosin 10mg QD (82)	0%	0%	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Placebo QD (83)	0%	0%	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Roehrborn CG, 2003 3m	Alfuzosin 10mg QD (472)	NR	5.3% (25/472)	2.1% (10/472)	NR	0.2% (1/472)	NR	NR	3.0% (14/472)	NR	NR	NR	NR	0.6%	"impotence" 1.5% (7/472)
	Placebo QD (483)	NR	2.9% (14/483)	1.7% (8/483)	NR	0%	NR	NR	2.1% (10/483)	NR	NR	NR	NR	NR	"impotence" 0.6% (3/483)
Roehrborn CG, 2006 2y	Alfuzosin 10mg QD (754)	NR	6.0% (45/754)	1.2% (9/754)	NR	0.7% (5/754)	NR	NR	3.3% (25/754)	0.1% (1/754)	0% (0/754)	NR	NR	Ejaculation disorder: 0.4% (3/754)	2.0% (15/754)
	Placebo QD (761)	NR	4.6% (35/761)	5% (4/761)	NR	0.3% (2/761)	NR	NR	2.2% (17/761)	0% (0/761)	0.4% (3/761)	NR	NR	Ejaculation disorder 0% (0/761)	1.8% (14/761)
Roehrborn CG, 2001 3m	Alfuzosin 10mg QD (176)	NR	7.4% (13/176)	3.4%	NR	NR	NR	NR	5.1% (9/176)	NR	2.2% (4/176)	NR	NR	Temporary ejaculation disorder 0.6%	2.8% (5/176)
	Alfuzosin 15mg QD (177)	NR	9.0% (16/177)	2.3%	NR	NR	NR	NR	2.3% (4/177)	NR	1.7% (3/177)	NR	NR	Temporary ejaculation disorder 0.6%	1.1% (2/177)
	Placebo QD (175)	NR	2.9% (5/175)	3.4%	NR	NR	NR	NR	2.3% (4/175)	NR	0% (0/175)	NR	NR	Temporary ejaculation disorder 0%	1.1% (2/175)
Van Kerrebroeck P, 2000 3m	Alfuzosin 10mg QD (143)	NR	2.1% (3/143)	0.7% (1/143)	NR	NR	NR	NR	1.4% (2/143)	1.4% (2/143)	3.5% (5/143)	NR	NR	NR	NR
	Alfuzosin 2.5mg TID (149)	NR	4.7% (7/149)	1.3% (2/149)	NR	NR	NR	NR	2.0% (3/149)	0.7% (1/149)	0.7% (1/149)	NR	NR	NR	NR
	Placebo TID (154)	NR	1.3% (2/154)	0	NR	NR	NR	NR	0.6% (1/154)	0% (0/154)	2.6% (4/154)	NR	NR	NR	NR
Reijke TM, 2004	Alfuzosin 2.5mg BID/TID (93)	1.0% (1/105)	11.8% (11/93)	0% (0/93)	NR	0% (0/93)	NR	NR	6.5% (6/93)	1.1% (1/93)	0% (0/93)	NR	NR	NR	NR

14w	Doxazosin 1-8mg/day (99)	0(0%)	14.1% (14/99)	1.1% (1/99)	NR	0% (0/99)	NR	NR	5.1% (5/99)	0% (0/99)	1% (1/99)	NR	NR	NR	NR

Table 3.1e. Characteristics of alfuzosin single-group cohort studies

Author, Year **Country** **Study duration**	**Intervention** **Inclusion criteria** **Sample size**	**Demographic characteristics at baseline**	**Total withdrawal rate** **Withdrawal rate due to adverse events** **Subject with one or more treatment emergent adverse events**
Hartung R, 2006 Multi-center, international ALF-ONE study 6m	Alfuzosin 10mg QD LUTS suggestive of BPH 6523 at baseline	Age: NR Total I-PSS: 17.3(6.7) Qmax: NR	19.3% (1259/6523) 6.44% (420/6523) 23.9% (1558/6523)
Nickel JC, 2006 ALF-One study 6m	Alfuzosin 10mg QD LUTS suggestive of bladder outlet obstruction with painful ejaculation 997 with painful ejaculation 3860 without painful ejaculation	Subgroup with painful ejaculation Age: 61.6(8.2) Total I-PSS: 18.7(6.4) Qmax: 13.2(11.8)	NR 5.0% in subgroup with painful ejaculation; 6.1% in those without painful ejaculation. 23.7% (236/997) in subgroup with painful ejaculation; 24.6 % in group without pain
Van Moorselaar, 2005 ALF-ONE study 12m	Alfuzosin 10mg QD LUTS suggestive of bladder outlet obstruction 3076	Age: 65.9(8.5) Total I-PSS: 16.4(6.6) Qmax: NR	23.2% (713/3076) 7.7% (238/3076) 38.9% (1197/3076)
Eihilai M, 2006 Europe ALF-ONE study 2y	Alfuzosin 10mg QD LUTS suggestive of BPH 839 (interim analysis)	Age: 67.3(8.2) Total I-PSS: 15.5(6.2) Qmax: NR	21.8% (183/839) 5.7% (48/839) 51.6% (433/839)
Vallancien, G, 2008 ALF-ONE study	Alfuzosin 10mg QD LUTS suggestive of BPH	Age: 67.6(8.4) Total I-PSS: 15.5(6.2)	35.7% (246/689) 8.6% (59/689)

3y	689	Qmax: NR	71.4% (492/689)
IACOG, 2000 Italy 12m	Alfuzosin 2.5mg TID Symptomatic patients with BPH, 50-80y 355	Age: 64.6(0.4) Total I-PSS: 21.6(SE 0.4) Qmax: 9.6(SE 0.1)	14.5% (51/355) 4.3% (15/355) 7.1% (25/355)
Lukacs B, 2000 France 12, 36m	Alfuzosin 2.5mg (max. 7.5mg/day) or slow release 5mg twice daily <85y with LUTS 12m: 2829 36m: 7093 (includes persons in 12-m assessment)	12m: Age: 65.9(0.1) Total I-PSS: 19.6(0.1) Qmax: NR 36m: Age: 66.7(0.2) Total I-PSS: NR Qmax: NR	12m: 13.7% (387/2829) 5.0% (141/2829) 14.8% (418/2829) 36m: 17.6% (1246/7093) NR NR
Saad F, 2005 Canada 3m	Alfuzosin: 10mg QD Men ≥ 40y experiencing bothersome LUTS suggestive of BPH 353	Age: 63.1(19.0) Total I-PSS: 17.8(NR) Qmax: NR	1.7% (6/353) NR 20.2% (70/353)
Shah T, 2002 Palit 2005 United Kingdom Unclear RCT with TWOC, then OLE 2y (Shah 2002) 4y (Palit 2005)	Alfuzosin SR 5mg BID Placebo BID given at baseline; those with successful TWOC went on to OLE of alfuzosin SR 5 mg BID (reported here) 81 randomized 33 OLE	Age: 68.6(NR) Total I-PSS: NR Qmax: NR 100% in AUR at baseline for RCT	54% (18/33) (2y) 69.7% (23/33) (4y) 1.2% (1/81) NR
Van Kerrebroeck P, 2002, (OLE van Kerrebroeck 2000) Western Europe 12m (including 3-m RCT)	Alfuzosin 10mg QD >50y with micturition disorders related to BPH 360 (for safety)	Age: 64.6 Total I-PSS: 17.1(3.6) Qmax: 9.1(2.0)	9.3% (29/311) (during OLE) 3.9% (12/311) (during OLE) 42.8% (154/360)

Table 3.1f. Adverse events in alfuzosin single-group cohort studies

Author, year Dosage	No. of patients assessed Study duration	Mortality	Cardiovascular					Central Nervous System			Gastrointestinal			Intra-operative Floppy Iris Syndrome	Sexual function	
			Dizziness	Drowsiness	Hypotension	Syncope	Asthenia/ fatigue	Headache	Malaise	Somnolence	Complaints	Diarrhea, other	Nausea		Abnormal ejaculation	Erectile dysfunction
Intervention: Alfuzosin																
Hartung R, 2006 ALF-ONE study Alfuzosin 10mg QD	6523 6m	NR	4.8% (315/6523)	NR	0.7% (44/6523)	0.2% (11/6523)	1.7% (11/6523)	2.4% (157/6523)	0.1% (9/6523)	0.8% (22/6523)	NR	NR	NR	NR	Retrograde Ejaculation 0.1% (9/6523	0.7% (45/6523)
Nickel JC, 2006 ALF-ONE study Alfuzosin 10mg QD	4857 6m Data reported for patients both with and without painful ejaculation	NR	4.9% (237/4857)	NR	0.7% (32/4857)	0.3% (13/4857)	1.7% (83/4857)	2.6% (126/4857)	0.1% (6/4857)	0.4% (18/4857)	NR	NR	NR	NR	0.2% (10/4857)	0.9% (42/4857)
Van Moorselaar, 2005 ALF-ONE study Alfuzosin 10mg QD	3076 12m	NR	6.2% (190/3076)		1.0% (32/3076)	0.2% (6/3076)	NR	NR	0.3% (9/3076)	NR	NR	NR	NR	NR	Retrograde Ejaculation 0.2% (6/3076)	1.4% (43/3076)
Eihilai M, 2006 ALF-ONE study Alfuzosin 10mg QD	839 2y	NR	3.1% (26/839)	NR	1.0% (8/839)	0.5% (4/839)	1.3% (11/839)	1.2% (10/839)	0.2% (2/839)	0.4% (3/839)	NR	NR	NR	NR	Ejaculation failure 0.1% (2/839) Retrograde Ejaculation 0.1% (1/839)	1.4% (12/839)
Vallancie, G, 2008 ALF-ONE study Alfuzosin 10mg QD	689 3y	NR	4.5% (31/689)	NR	Postural hypotension1.3 % (9/689)	0.6% (4/689)	2.3% (16/689	1.9% (13/689)	0.4% (3/689)	0.4% (3/689)	NR	NR	NR	NR	Ejaculation failure 0.3% (2/689) Retrograde Ejaculation 0.1% (1/689)	2.0% (14/689)

IACOG, 2000 Alfuzosin 2.5mg TID	351 12m	0.3% (1/355) Accidental	"Vertigo" 0.8% (3/355)	NR	2.6% (9/351)	NR	1.7% (6/351)	0.3% (1/355)	NR	NR	NR	NR	NR	NR	NR	NR
Lukacs B, 2000a, 2000b Alfuzosin 2.5mg TID	2829 12m	1.7% (48/2829)	0.6% (16/2829)	NR	1.6% (47/2829)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	7093 3y	7.7% (549/7093)	2.1% (NR)	NR	0.4% (NR)	NR	NR	NR	NR	NR	NR	NR	NR	NR	Retrograde ejaculation: 0%	NR
Saad F, 2005 Alfuzosin 10 mg QD	347 3m	0	0	NR	0	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Shah T, 2002 Palit 2005 Alfuzosin SR 5mg BID	33 2, 4y	9.1% (3/33) (medical causes)	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Van Kerrebroeck P, 2002 (OLE van Kerrebroeck 2000) Alfuzosin 10mg QD	360 12m	NR	2.5% (9/360)		2.8% (10/360)	NR	3.6% (13/360)	1.4% (5/360)	1.1% (4/360)	NR	NR	NR	NR	NR	NR	0.6% (2/360)

Table 3.2. Doxazosin

Table 3.2a. Characteristics of doxazosin randomized, controlled trials

Author, year Country Study duration	Total sample size Treatment groups (sample size[a]) Formulation	Demographic characteristics of the comparison group	Run-in period	Outcomes reported
Doxazosin 4mg QD compared with doxazosin 8mg QD				
MacDiarmid SA, 1999 USA 12w	82 Doxazosin 4mg QD (42) Doxazosin 8mg QD (40) Formulation: not specified	Age: 67.0(10.6) AUA SS: 17.4(8.7) Qmax: 15.1(9.7)	Run in: NR Patients recruited were taking Doxazosin 4mg QD ≥ 3m prior to study	AUA SS Boyarsky score Qmax
Doxazosin compared with doxazosin XL				
Andersen M, 2000 Denmark, Norway, Sweden 13w	795 Doxazosin GITS 4 or 8mg QD (mean final dose in ITT population 6.4mg QD (311) Doxazosin 1-8mg QD (mean final dose 6.0mg QD) (318) Placebo QD (155) Formulation: Doxazosin standard and GITS	Age: 64.9(range 50-80) Total I-PSS: 17.7(4.3) Qmax: 10.3(2.6)	Run-in: 2w, placebo	IPSS Qmax
Kirby RS, 2005 Europe, Canada, South Africa 13w	680 Doxazosin XL 4 or 8mg QD (350) Doxazosin standard 1-8mg QD (330) Formulation: Doxazosin standard and XL	Age: NR Total I-PSS: NR Qmax: NR	Run in: 2w, placebo	IIEF score
Doxazosin compared with placebo				
Ozbey I, 1999 Turkey 6m	57 Doxazosin 2mg QD initially, then 4mg QD (29) Placebo QD (28) Formulation: doxazosin standard	48-82 Total I-PSS: NR Qmax: 10.71(2.71)	Run-in: none	PVR Qmax

Doxazosin GITS compared with tamsulosin				
Pompeo AC, 2006 Brazil 12w	Total: 165 A: Doxazosin 4mg GITS + placebo QID 82 B: Tam 0.4mg + placebo QID 83 Formulation: Doxazosin GITS	Age: 61.7(7.6) Total I-PSS: NR Qmax: NR	Run-in: none 2w "washout phase"	IPSS QoL
Doxazosin compared with terazosin				
Samli MM, 2004 Turkey 12w	50 Doxazosin 8mg QD (25) Terazosin 10mg QD (25) Formulation: not specified	Age: 60(6.3) Total I-PSS: 13.8(4.4) Qmax: 11.1(1.9)	Run-in: NR	IPSS Qmax
Doxazosin compared with finasteride, doxazosin + finasteride, and placebo				
McConnell JD, 2003 Kaplan SA, 2006 Johnson TM, 2007 Bautista OM, 2003 USA (MTOPS trial) 4.5y (mean)	3047 Doxazosin 1mg, titrated up to 4-8mg QD (756) Finasteride 5mg QD (768) Doxazosin 1-8mg QD; finasteride 5mg QD (786) Placebo QD (737) Formulation: not specified	Age: 62.6(7.3) AUA SS: NR Qmax: 10.5(2.6)	Run-in: 2w, placebo	Clinical progression AUA SS PVR Qmax PSA
Kirby RS, 2003 Europe (PREDICT trial) 52w	1095 Doxazosin 1mg, titrated up to 4-8mg QD (275) Finasteride 5mg QD (264) Doxazosin 1-8mg QD; finasteride 5mg QD (286) Placebo QD (270) Formulation: not specified	Age: 64(7.0) Total I-PSS: 17.3(4.7) Qmax: 10.4(2.7)	Run-in: 2w, placebo	IPSS Qmax PSA Adverse Events
Doxazosin + finasteride with discontinuation of doxazosin				
Baldwin KC, 2001 USA 12m	240 Initial treatment of 272 men was with finasteride 5 mg and doxazosin 2 mg, titrated to 4 or 8 mg; men with a favorable response (n=240) after 1m were randomized to: 5 mg finasteride + 2 mg doxazosin (n=100) 5 mg finasteride + 4 mg	Age: NR IPSS: NR Qmax: NR Prostate volume (g): >40; mean 54 (40 – 104)	No run-in	Successful discontinuation

	doxazosin (n=80) 5 mg finasteride + 8 mg doxazosin (n=60) Within each group, men were randomized to discontinue doxazosin at 3-month intervals			

[a]Number of patients randomized
Data are reported as mean (standard deviation) unless otherwise indicated.

Table 3.2b. Efficacy and effectiveness outcomes in doxazosin randomized, controlled trials

Author, year Study duration	Intervention (no. of patients assessed)	Baseline [mean(SD)]	Endpoint [mean(SD)]	Within group difference (P-value)	Between group difference (P-value)
AUA Symptom Score					
MacDiarmid SA, 1999 12w	Doxazosin 4mg QD (35)	15.1(7.4)	14.3(8.1)	-1.6 (P<0.05)	Vs. doxazosin 8mg QD: 3.7 (P=0.03)
	Doxazosin 8mg QD (32)	17.4(8.7)	13.4(7.1)	-5.3 (NR)	NR
McConnell JD, 2003 4y	Doxazosin 1-8mg QD (756)	17.0(5.8)	NR	Median change -6.0 (NR)	Vs. placebo: -2.0 (P<0.001) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: 1.0 (P=0.035) Vs. finasteride 5mg QD: -1.0 (P=0.002)
	Finasteride 5mg QD (768)	17.6(5.9)	NR	Median change -5.0 (NR)	Vs. placebo: -1.0 (P=0.047) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: 2.0 (P<0.001)
	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	16.8(5.8)	NR	Median change -7.0 (NR)	Vs. placebo: -3.0 (P<0.001)
	Placebo QD (737)	16.8(5.9)	NR	Median change -4.0 (NR)	NR
International Prostate Symptom Score (I-PSS)					
Pompeo AC, 2006 12w	Doxazosin 4mg QID (76)	NR	NR	NR (P=0.001)	Vs. tamsulosin: NR (P=0.759)
	Tamsulosin 0.4mg QID (82)	NR	NR	NR (P=0.001)	NR
Andersen M, 2000 13w	Doxazosin GITS 4 or 8mg QD (311)	Per protocol analysis (n=772 out of 795 randomized) "ITT results similar" Note: text and table differ on whether measure of dispersion is SD or SE	NR	Least squared adjusted mean change -8.0(SE 0.3) (P<0.001)	Vs. placebo: 2.0 (P<0.05) Vs. doxazosin 1-8mg QD: 0.4 (P=0.321)
	Doxazosin 1-8mg QD (318)	NR	NR	Least squared adjusted mean change -8.4(SE 0.3) (P<0.001)	Vs. placebo: -2.4 (P<0.05)

	Placebo QD (155)	NR	NR	Least squared adjusted mean change -6.0(SE 0.4) (P<0.001)	NR
SamLi MM, 2004 12w	Doxazosin 8mg QD (25)	14.4(6.2)	8.2(3.7)	-6.2 (NR)	Post outcome, responders only Vs. terazosin: -0.7 (P=0.16)
	Terazosin 10mg QD (25)	13.8(4.4)	8.3(4.2)	-5.5 (NR)	NR
Kirby RS, 2003 52w	Doxazosin 1-8mg QD (250)	17.1(4.2)	8.7(5.8)	-8.3 (NR)	Vs. placebo: -2.6 (P≤ 0.0001) Vs. finasteride 5mg QD: -1.7 (P≤0.01) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: 0.2 (P>0.05)
	Finasteride 5mg QD (239)	17.1(4.4)	10.9(6.2)	-6.6 (NR)	Vs. placebo: -0.9 (P>0.05)
	Doxazosin 1-8mg QD; finasteride 5mg QD (265)	17.3(4.7)	8.7(6.2)	-8.5 (NR)	Vs. placebo: -2.8 (P≤0.0001) Vs. finasteride 5mg QD: -1.9 (P≤0.01)
	Placebo QD (253)	17.2(4.5)	11.8(6.9)	-5.7 (NR)	NR
Other Symptom Scores					
MacDiarmid SA, 1999 12w	Doxazosin 4mg QD (42)	Boyarsky score 17.4(8.3)	17.9(8.3)	-0.6 (P<0.05)	Vs. doxazosin 8mg QD: 4.3 (P=0.009)
	Doxazosin 8mg QD (40)	Boyarsky score 19.2(8.2)	15.7(7.8)	-4.9 (P<0.05)	NR
Pompeo AC, 2006 12w	Doxazosin 4mg QID (82)	Prostatic Hyperplasia Impact Index 5.85(2.55)	2.47(2.67)	NR (P=0.0001)	Vs. tamsulosin: NR (P=0.674)
	Tamsulosin 0.4mg QID (82)	Prostatic Hyperplasia Impact Index 6.11(2.65)	2.43(2.83)	NR (P=0.0001)	NR
Qmax (mL/s)					
MacDiarmid SA, 1999 12w	Doxazosin 4mg QD (42)	16.0(7.8)	14.9(7.1)	-0.6 (P<0.05)	Vs. doxazosin 8mg QD: -2.0 (NR)
	Doxazosin 8mg QD (40)	15.1(9.7)	17.9(10.3)	1.4 (NR)	NR
Andersen M, 2000 13w	Doxazosin GITS 4 or 8mg QD (311)	Per protocol analysis (n=772 out of 795 randomized) "ITT results similar"	NR	Least squared adjusted mean change (reported) 2.6(SE 0.2) (P<0.001)	Vs. placebo: 1.8 (P <0.001) Vs. doxazosin 1-8mg QD: 0.4 (P=0.257)

		10.3(SE 2.6) Note: text and table differ on whether measure of dispersion is SD or SE			
	Doxazosin 1-8mg QD (318)	10.0(SE 2.8)	NR	2.2(SE 0.2) (P<0.001)	Vs. placebo: 1.4 (P<0.001)
	Placebo QD (155)	9.9(SE 2.6)	NR	0.8(SE 0.3) (P<0.01)	NR
Ozbey I, 1999 6m	Doxazosin 2-4mg QD (21)	10.22(2.15)	13.10(1.93)	2.88 (P=0.01)	Vs. placebo: 3.89 (NR)
	Placebo QD (18)	10.71(2.71)	9.70(2.26)	-1.01 (NR)	NR
Pompeo AC, 2006 12w	Doxazosin 4mg QID (76)	11.50(5.63)	12.98(6.33)	NR	Vs. tamsulosin: NR (P=0.526)
	Tamsulosin 0.4mg QID (78)	11.55(6.5)	13.68(7.56)	NR	NR
SamLi MM, 2004 12w	Doxazosin 8mg QD (25)	10.8(2.7)	13.1(3.1)	2.3 (NR)	Post outcome, responders only Vs. terazosin: NR (P=0.63)
	Terazosin 10mg QD (25)	11.5(1.9)	12.9(2.3)	1.4 (NR)	NR
McConnell JD, 2003 4y	Doxazosin 1-8mg QD (756)	10.3(2.5)	NR	Median change 2.5 (NR)	Vs. placebo: NR (P<0.001) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: NR (P=0.002)
	Finasteride 5mg QD (768)	10.5(2.5)	NR	2.2 (NR)	Vs. placebo: 0.8 (P=0.047) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: -1.5 (P<0.001) Vs. doxazosin 1-8mg QD: -0.3 (P=0.089)
	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	10.6(2.5)	NR	3.7 (NR)	Vs. placebo: 2.3 (P<0.001)
	Placebo QD (737)	NR	NR	1.4 (NR)	NR
Kirby RS, 2003 52w	Doxazosin 1-8mg QD (250)	10.4(2.5)	14.0(4.9)	3.6 (0.3)	Vs. placebo: 2.2 (P≤0.0001) Vs. finasteride 5mg QD: NR (P≤0.0001)
	Finasteride 5mg QD (239)	10.2(2.5)	12.1(4.7)	1.8 (NR)	Vs. placebo: 0.4 (P<0.001)
	Doxazosin 1-8mg QD; finasteride 5mg QD (265)	10.4(2.7)	14.5(5.1)	3.8 (NR)	Vs. placebo: 2.4 (P≤0.0001)
	Placebo QD (253)	10.8(2.5)	12.1(4.2)	1.4 (NR)	NR
Quality of Life (QoL)					

Andersen M, 2000 13w	Doxazosin GITS 4 or 8mg QD (311)	Unclear if per protocol analysis (n=772 out of 795 randomized) or ITT (780/795)	NR	Least squared adjusted mean change -1.3(SD 0.1) (P<0.001)	Vs. doxazosin 1-8mg QD: 0.04(SE 0.10) (95% CI -0.15 – 0.22) (P>0.05)
	Doxazosin 1-8mg QD (318)	NR	NR	-1.4(SD 0.1) (P<0.001)	NR
	Placebo QD (155)	NR	NR	-0.9(SD 0.1) (P<0.001)	NR
Detrusor Pressure at Qmax (cmH20)					
Ozbey I, 1999 6m	Doxazosin 2-4mg QD (21)	80.19(9.03)	56.14(11.88)	-24.05 (P<0.05)	Vs. placebo: -32.28 (NR)
	Placebo QD (18)	82.38(9.07)	90.61(9.42)	8.23 (NR)	NR
Post Void Residual (PVR) (mL)					
Ozbey I, 1999 6m	Doxazosin 2mg QD initial; doxazosin 4mg QD (21)	32.19(20.29)	20.14(14.65)	-12.05 (P>0.05)	Vs. placebo: -27.5 (NR)
	Placebo QD (18)	33.88(21.97)	49.33(21.92)	15.45 (NR)	NR
Pompeo AC, 2006 12w	Doxazosin 4mg QID (76)	230.34(111.89)	200.06(107.33)	NR	Vs. tamsulosin 0.4mg QD: NR (P=0.057)
	Tamsulosin 0.4mg QID (78)	193.19(124.42)	245.79(142.74)	NR	NR
Prostate Specific Antigen (PSA) (ng/mL)					
McConnell JD, 2003 4y	Doxazosin 1-8mg QD (756)	2.4(2.1)	NR	% change from baseline +13 (NR)	Vs. placebo: NR (P=0.291) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: NR (P<0.001)
	Finasteride 5mg QD (768)	2.4(2.1)	NR	-50% (NR)	Vs. placebo: NR (P<0.001) Vs. doxazosin 1-8mg QD; finasteride 5mg QD: NR (P=0.683) Vs. doxazosin 1-8mg QD: NR (P<0.001)
	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	2.3(1.9)	NR	-50% (NR)	Vs. placebo: NR (P<0.001)
	Placebo QD (737)	2.3(2.0)	NR	+15% (NR)	NR
Kirby RS, 2003 52w	Doxazosin 1-8mg QD (250)	2.5(2.0)	2.8(2.3); NR	0.3 (NR)	NR
	Finasteride 5mg QD (239)	2.6(2.1)	1.5(1.0);	-1.2 (NR)	NR
	Doxazosin 1-8mg QD ; finasteride 5mg QD (265)	2.7(2.3)	1.4(1.2);	-1.3 (NR)	Vs. placebo: -1.6 (NR)
	Placebo QD (253)	2.6(2.1)	2.9(2.6)	0.3 (NR)	NR
Prostate Volume					
McConnell JD,	Doxazosin 1-8mg QD	36.9(21.6)	NR	% change from	NR

2003 4y	(756)			baseline +24% (NR)	
	Fin 5mg QD (768)	36.9(20.6)	NR	-19% (had "large" prostate at baseline) (NR)	NR
	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	36.4(19.2)	NR	-19% (had "large" prostate at baseline) (NR)	NR
	Placebo QD (737)	35.2(18.8)	NR	+24% (NR)	NR
BPH-Related Surgery					
Kirby RS, 2003 52w	Doxazosin 1-8mg QD (275)	NR	NR	Incidence of TURP 0.4%	NR
	Finasteride 5mg QD (264)	NR	NR	1.1%	NR
	Doxazosin 1-8mg QD; finasteride 5mg QD (286)	NR	NR	0%	NR
	Placebo QD (269)	NR	NR	2.6%	NR
McConnell JD, 2003 4y	Doxazosin 1-8mg QD (756)	NR	NR	Invasive therapy due to BPH Rate per 100 P-Y; cumulative incidence (95% CI) 27; 3(range 2-5)	NR
	Finasteride 5mg QD (768)	NR	NR	14; 2(range 0-3)	NR
	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	NR	NR	12; 1(range 0-2)	NR
	Placebo QD (737)	NR	NR	37; 5(range 3-7)	NR
Clinical Progression					
McConnell JD, 2003 4y	Doxazosin 1-8mg QD (756)	Clinical progression defined as one or more of the following: an increase from baseline of AUA SS of 4+ points; AUR, UTI, incontinence; increased serum creatinine attributed to BPH NR	NR	Cumulative incidence (95% CI) 10(range 8-12)	Vs. placebo: NR (P<0.001)
	Finasteride 5mg QD (768)	NR	NR	10(range 8-13)	Vs. placebo: NR (P=0.002)

	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	NR	NR	5(range 4-7)	Vs. placebo: NR (P<0.001) Vs. doxazosin 1-8mg QD: NR (P<0.001) Vs. finasteride 5mg QD: NR (P<0.001)
	Placebo QD (737)	NR	NR	17(range 14-20)	NR
Urinary Retention					
McConnell JD, 2003 4y	Doxazosin 1-8mg QD (756)	NR	NR	Cumulative incidence (95% CI) 1(range 0-2)	Vs. placebo: NR (P=0.23)
	Finasteride 5mg QD (768)	NR	NR	<1(range 0-1)	Vs. placebo: NR (P=0.009)
	Doxazosin 1-8mg QD; finasteride 5mg QD (786)	NR	NR	<1(range 0-1)	Vs. placebo: NR (P<0.001)
	Placebo QD (737)	NR	NR	2(range 1-4)	NR
Kirby RS, 2003 52w	Doxazosin 1-8mg QD (275)	NR	NR	Occurrance of AUR 0%	NR
	Finasteride 5mg QD (264)	NR	NR	1.1%	NR
	Doxazosin 1-8mg QD; finasteride 5mg QD (286)	NR	NR	0%	NR
	Placebo QD (269)	NR	NR	1.5%	NR

[a]No studies reported this outcome

Table 3.2c. Withdrawal and adverse event rates for doxazosin randomized, controlled trials

Author, year Study duration	Overall withdrawal rate	Treatment (no. of patients randomized)	Withdrawal by treatment group	Withdrawal due to adverse events	No. of patients with 1 or more treatment-emergent adverse events (%)
Doxazosin 4mg QD compared with doxazosin 8mg QD					
MacDiarmid SA, 1999 12w	15/82 (18.3%)	Doxazosin 4mg QD (42)	7/42 (16.7%)	4/42 (9.5%)	NR
		Doxazosin 8mg QD (40)	8/40 (20%)	5/40 (12.5%)	NR
Doxazosin XL compared with doxazosin standard					
Andersen M, 2000 13w	68/784 (8.7%)	Doxazosin GITS 4 or 8mg QD (311)	22/311 (7.1%)	4.7% Vs. doxazosin 1-8mg QD: P=0.022 Vs. placebo: P=0.241	Withdrawals due to treatment-related AEs 3.5%
		Doxazosin 1-8mg QD (318)	38/322 (11.8%)	9.3 % Vs. placebo: P=0.003	6.2%
		Placebo QD (155)	8/156 (5.1%)	2.6%	0.6%
Kirby RS, 2005 13w	70/680 (10.3%)	Doxazosin XL 4 or 8mg QD (350)	39/350 (11.1%)	21/350 (6.0%)	NR
		Doxazosin S 1 to 8mg QD (330)	31/330 (9.4%)	16/330 (4.8%)	NR
Doxazosin compared with placebo					
Ozbey I, 1999 6m	18/55 (31.6%)	Doxazosin 2mg QD initial; doxazosin 4mg QD (29)	8/29 (27.6%)	2/29 (6.9%) (hypotension and vertigo)	NR, other than 2/29 with hypotension
		Placebo QD (28)	10/28 (35.7%)	0%	NR
Doxazosin GITS compared with tamsulosin					
Pompeo AC, 2006 12w	29/165 (17.6%)	Doxazosin GITS 4mg QD82	17/82 (20.7%)	2/82 (2.4%)	17/82 (20.7%) P=0.383
		Tam 0.4mg QD 83	12/83 (14.5%)	4/83 (4.8%)	22/83 (26.5%)
Doxazosin compared with terazosin					
SamLi MM, 2004 12w	NR	Doxazosin 8mg QD (25)	NR	NR	1/25 (4%)
		Terazosin 10mg QD (25)	NR	NR	1/25 (4%)
Doxazosin compared with finasteride, doxazosin + finasteride, and placebo					
McConnell JD, 2003 4.5y (mean)	NR (data presented as person-years)	Doxazosin 1-8mg QD (756)	27%	"most often treatment was discontinued because of adverse events"	NR
		Finasteride 5mg QD (768)	24%		NR
		Doxazosin 1-8mg QD; finasteride 5mg QD (786)	18%		NR
		Placebo QD (737)	NR		NR

Kirby RS, 2003 52w	29.6% (324/1095) (ITT population was 1007/1095)	Doxazosin 1-8mg QD (275)	78/275 (28.4%)	11.6% (32/275)	155/275 (56.4%)
		Finasteride 5mg QD (264)	81/264 (30.7%)	12.9% (34/264)	93/264 (35.2%)
		Doxazosin 1-8mg QD; Fin 5mg QD (286)	89/286 (31.1%)	12.2% (35/286)	151/286 (52.8%)
		Placebo QD (270)	76/270 (28.1%)	11.1% (30/270)	82/270 (30.4%)
Baldwin KC, 2001 USA 12m	NR	5 mg finasteride + 2 mg doxazosin (n=100) 5 mg finasteride + 4 mg doxazosin (n=80) 5 mg finasteride + 8 mg doxazosin (n=60)	NR	Of 272 men entering study, 32 did not continue with the study: 11 had no improvement and21 did not tolerate meds (dizziness and orthostatic hypotension)	NR

Table 3.2d. Adverse events in doxazosin randomized, controlled trials

Author, year Study duration	Intervention (no. of patients assessed)	Mortality	Cardiovascular				Central Nervous System				Gastrointestinal	Intraoperative Floppy Iris Syndrome	Sexual Function			Urinary Tract
			Dizziness	Hypotension	Syncope	Other cardiovascular	Asthenia/fatigue	Headache	Malaise	Somnolence	Diarrhea, other		Ejaculation disorder	Retrograde ejaculation	Erectile dysfunction	Urinary incontinence UTI
Doxazosin 4mg compared with doxazosin 8mg																
MacDiarmid SA, 1999 12w	Doxazosin 4mg QD (42)	NR	3/42 (7.1%)	Postural hypotension: 3/42 (7.1%)	NR	NR	NR	5/42 (12%)	NR	Fatigue 12/42 (28.6%)	NR	NR	NR	NR	4/42 (9.5%)	NR NR
	Doxazosin 8mg QD (40)	NR	6/40 (15%)	3/42 (7.1%)	NR	NR	NR	7/70 (10%)	NR	Fatigue 7/40 (17.5%)	NR	NR	NR	NR	5/42 (12%)	NR NR
Doxazosin compared with Doxazosin XL																
Kirby RS, 2005 13w	Doxazosin standard 1-8mg QD (350)	1/350 (0.29%)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	IIEF Improved in patients with sexual dysfunction at baseline; NSD between treatment groups	NR NR
	Doxazosin XL 4 or 8mg QD (330)	0%	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR NR
Doxazosin GITS compared with doxazosin and placebo																
Andersen M, 2000 13w	Doxazosin GITS 4 or 8mg QD (311)	NR	18/311 (5.7 %)	Postural hypotension: 4/311 (1.3%)	NR	NR	NR	18/311 (5.7%)	NR	Asthenia 3.2%	NR	NR	NR	NR	NR	NR NR
	Doxazosin 1-8mg QD (318)	NR	27/318 (8.4%)	7/318 (2.2 %)	NR	NR	NR	13/318 (4.1%)	NR	Asthenia 5.0%	NR	NR	NR	NR	NR	NR NR
	Placebo QD (155)	NR	3/155 (1.9%)	Postural hypotension: 1/155 (0.6%)	NR	NR	NR	7/155 (4.5%)	NR	Asthenia 1.3%	NR	NR	NR	NR	NR	NR NR
Doxazosin compared with placebo																
Ozbey I, 1999 6m	Doxazosin 2mg QD initial; doxazosin 4mg QD 29	NR	NR	2/29 (6.9%)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR NR
	28	NR	NR	0%	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR NR

Doxazosin GITS compared with tamsulosin																
Pompeo AC, 2006 12w	82	NR	3/82 (3.7%)	NR	NR	NR	NR	3/82 (3.7%)	NR	Asthenia 1.2%	NR	NR	2/82 (2.4%)	NR	NR	NR NR
	83	NR	2/83 (2.4%)	NR	NR	NR	NR	2/83 (2.4%)	NR	Asthenia 2.4%	NR	NR	4/83 (4.8%)	NR	NR	NR NR
Doxazosin compared with terazosin																
SamLi MM, 2004 12w	25	NR	1/25 (4%)	Postural hypotension: 0%	NR	NR	NR	0%	NR	0%	NR	NR	NR	NR	0%	NR NR
	25	NR	0%	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1/25 (4%)	NR NR
Doxazosin compared with finasteride, doxazosin + finasteride, and placebo																
McConnell JD, 2003 Kaplan SA, 2006 Bautista OM, 2003 USA (MTOPS trial) 4.5y(mean)	756 *All adverse events: rate/100 person-year of follow-up	NR Breast cancer: 4 cases among men taking finasteride alone or combination therapy	4.41	Postural hypotension: 4.03	NR	NR	NR	NR	NR	Asthenia 0.82 Vs. placebo: P<0.05	NR	NR	1.10	NR	3.56 Decreased libido (100 P-Y) 1.56	NR NR
	768	NR	2.33 Vs. placebo: P<0.05	Postural hypotension: 2.56	NR	NR	NR	NR	NR	Asthenia 0.39	NR	NR	1.78 Vs. placebo: P<0.05	NR	4.53* Decreased libido (100 P-Y) 2.36 Vs. placebo: P<0.05	NR NR
	786	NR	5.35 Vs. placebo: P<0.05	Postural hypotension: 4.33	NR	NR	NR	NR	NR	Asthenia 0.78* Vs. placebo: P<0.05	NR	NR	3.05 Vs. placebo: P<0.05	NR	5.11* Decreased libido (100 P-Y) 2.51	NR NR
	737	NR	2.29	Postural hypotension: 2.29	NR	NR	NR	NR	NR	Asthenia 0.37	NR	NR	0.83	NR	3.32 Decreased libido (100 P-Y) 1.40	NR NR
Kirby RS, 2003 Europe (PREDIC	275	NR	43/275 (15.6%) Betwee	Hypotension: 14/275 (5.1%), P=0.01	2/275 (0.7%) Betwe	NR	NR	NR	NR	11/275 (4%) Between-group	NR	NR	1/275 (0.4%) Between-group P=0.16	NR	16/275 (5.8%) Between-group P<0.01	NR NR

T trial) 52w			n-group P<0.01	Postural hypotension: 16/275 (5.8%), P<0.01	en-group P=0.04					P=0.71						
	264	NR	21/264 (8.0%)	Hypotension: 2/264 (0.8%) Postural hypotension: 2/264 (0.8%)	0%	NR	NR	NR	NR	8/264 (3%)	NR	NR	6/264 (2.3%)	NR	13/264 (4.9%)	NR NR
	286	NR	39/286 (13.6%)	Hypotension: 8/286 (2.8%) Postural hypotension: 8/286 (2.8%)	6/286 (2.1%)	NR	NR	NR	NR	9/286 (3.1%)	NR	NR	7/286 (2.4%)	NR	30/286 (10.5%)	NR NR
	270	NR	20/269 (7.4%)	Hypotension: 4/269 (1.5%) Postural hypotension: 4/269 (1.5%)	1/269 (0.4%)	NR	NR	NR	NR	6/269 (2.2%)	NR	NR	4/269 (1.5%)	NR	9/269 (3.3%)	NR NR

Table 3.2e. Characteristics of doxazosin single-group cohort studies

Author, year **Country** **Study duration**	**Intervention** **Inclusion criteria** **Sample size**	**Demographic characteristics at baseline**	**Total withdrawal rate** **Withdrawal rate due to adverse events** **Subject with one or more treatment-emergent adverse events**
Chung BH, 2006 South Korea 12m	Doxazosin GITS 4-8mg Inclusion: Symptomatic BPH 475	Age: 63.1(9.3) Total I-PSS: 20.4 (6.8) Qmax: 11.3(5.1)	289/475 (60.8%) 3/475 (0.6%) 47/475 (9.9%) had AEs
De Rose AF, 2002 Italy 3m	Doxazosin 4mg QD Inclusion: BPH diagnosed based on patient history, DRE, PSA, I-PSS; stable sexual relationship of ≥ 6m; normal BP 102	Age: NR IPSS: 22 for group with IIEF 6-10 Qmax: NR	16/102 (15.7%) 3/102 (2.9%) (due to hypotension)
Fawzy A, 1999 USA 48m (n=28, reached 48m and end of study) 807d (n=178, mean follow-up for those who started study; all are hypertensive)	Doxazosin 4-16mg QD; mean dose 7.9mg QD (n=28) Inclusion: outpatients ≥ 45y of age with symptoms of BPH and outflow obstruction; Qmax of 5-15mL/sec in a voided volume of 150-500mL, a postvoid residual volume less than <200mL, a daytime micturition frequency ≥ 4 and nocturia≥2; and sitting diastolic BP 90-114mmHg 178 (28 reached 48-m follow-up)	Age: 64.5(range 43.6-73.4) (n=28) Total I-PSS: NR Qmax: 10.45(NR) (n=153)	28/178 completed 48-m follow-up; remainder had shorter follow-up; 25/178 withdrew; reasons NR Withdrawals due to AEs: Hypertensives: 19.1% (n=178); 8.6% per year) Normotensives: 15.1%; 8.3% per year Drug-related AEs: Hypertensives with 48-m follow-up: 57%; 14.3% per year (n=28) Normotensives: 6.6% per year (n=272) All hypertensives: 27.5%; 12.4% per year (n=178) Severe AEs: Hypertensives (n=178): 7.1% per year Normotensives: 6.6% per year

Hernandez C, 2005 Spain 6m	Doxazosin 4-8mg QD Inclusion: male patients > 40y old with moderate to severe BPH symptoms > 7 points on the IPSS and a diagnosis of BPH by rectal examination and/or ultrasound 3684	Age: 65.1(8.3) Total I-PSS: 16.8(NR) Qmax: NR	401/3684 (10.9%) 104/3684 (2.8%) 136/3684 (3.7%)
Lee JY, 2004 South Korea 5m	Doxazosin 2mg QD at bedtime for 1 month; if no improvement, increased to 4mg QD at bedtime for another 2m; if IPSS decreased by ≤ 3 points, tolterodine 2mg BID added for final 2m Symptomatic BOO, normal urine analysis, benign DRE 144 76 with BOO 68 with BOO+OAB	Age: 65.6y Total I-PSS: 23.22 (21.5 for BOO subgroup/25.15 for BOO+OAB subgroup) Qmax: BOO 11.1(1.7); BOO+OAB: 10.7(2.1) Prostate volume (mL): BOO: 29.4(7.1); BOO+OAB: 34.8(5.8)	NR

Table 3.2f. Adverse events in doxazosin single-group cohort studies

Author, year Dose	No. of patients assessed Study duration	Mortality	Cardiovascular				Central Nervous System				Gastrointestinal			Intraoperative Floppy Iris Syndrome	Sexual Function	
			Dizziness	Drowsiness	Hypotension	Syncope	Asthenia, fatigue	Headache	Malaise Somnolence	Dry mouth	Complaints	Diarrhea, other	Nausea		Abnormal ejaculation	Erectile dysfunction
Chung BH, 2006	475 12m	NR	13/475 (2.7%)	NR	Hypotension 2/475 (0.4%) Postural hypotension 2/475 (0.4%)	NR	NR	1/475 (0.2%)	NR	NR	NR	NR	NR	NR	NR	5 (1.1%)
De Rose AF, 2002	102 3m	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	IIEF improved significantly in men with baseline score 6-16 (P<0.01
Fawzy A, 1999	178 48m	NR	26/178 (14.6%)	NR	2.8%	NR	NR	6/178 (3.4%)	Somnolence 4/178 (2.2%) Fatigue4.5%	1.1%	NR	NR	NR	NR	NR	NR
Hernandez C, 2005	3684 6m	3/3684 (0.08%)	Postural dizziness 0.07%	2/3684 (0.05%)	Hypotension 40/3684 (1.1%) Postural hypotension 10/3684 (0.3%)	2/3684 (0.05%)	NR	NR	NR	Dry mouth 3/3684 (0.08%)	NR	NR	NR	NR	NR	1/3684 (0.03%)
Lee JY, 2004	144 5m	NR	3/144 (2%)	NR	Postural hypotension 2/144 (1.3%)	NR	NR	NR	NR	NR	NR	NR	NR	NR	2/144 (1.3%)	NR

Table 3.3 Tamsulosin

Table 3.3a. Characteristics of tamsulosin randomized, controlled trials

Author, Year Country Study Type	Sample size Number of patients assessed at baseline (% of randomized) Study Duration	Demographic Characteristics	Dosage Formulation Run-in period	Primary Outcomes Reported
Intervention: A: Tamsulosin B: Placebo (n=2)				
Chapple, 2005 Multinational RCT	Total: 2152 A(1): 99.7% (360/361) A(2): 99.7% (722/724) A(3): 99.9% (709/710) B:94.7% (338/357) 12 weeks	Age: A(1):64.7 (8.3) , A(2):64.6 (8.1) , A(3): 64.7 (8.3) , B:64.9 (7.9) Total I-PSS: A(1):18.5 (4.4) , A(2): 18.6 (4.5) , A(3): 18.5(4.5), B:18.3 (4.5) Qmax: A(1): 9.6 (1.8) , A(2): 9.6 (1.8), A(3):9.7 (1.8), B: 9.8 (1.8)	A(1): OCAS 0.4 mg qd A(2): OCAS 0.8 mg qd A(3): MR 0.4 mg qd B: Placebo Formulation(s): Oral controlled absorption system (OCAS), Modified release (MR) Run in: two week single-blind, placebo	I-PSS Qmax Adverse events
Kawabe, 2006 Japan RCT	Total: 457 A: 192 (100%) B: 89 (100%) (silodosin 176, NR herein) 12 weeks	Age: A: 65.6 (7.0), B: 65.0 (6.9) Total I-PSS: A: 17.0 (5.7) , B: 17.1 (6.1) Qmax: A: 9.43 (2.8), B: 9.96 (2.7)	A: 0.2 mg BID B: placebo BID Formulation(s): not specified Run in: 7-day "washout" and 7-day observation period	I-PSS Scores Q max Adverse events
Intervention: A: Tamsulosin B: Finasteride (n=2)				
Lee E, 2002 Korea RCT	Total: 205 A: 72/103(69.9%) B: 74/102(72.5%) 24 weeks	Age: A: 64.9 (6.8), B: 64.4 (7.2) Total I-PSS: A: 19.9 (7.2) , B: 19.0 (7..2) Qmax: A: 9.2 (2.5) , B: 9.6 (2.9)	A: 0.2 mg QD B: 5 mg QD Formulation: not specified Run-in: NR	I-PSS scores Qmax Adverse events
Rigatti P, 2003 Italy RCT MICTUS Trial	Total: 403 A: 196/199 (98%) B: 204/204 (100%) 1 year	Age: 63 (7.1) Total I-PSS: A: 16.3 (5.1), B: 16.9 (5.0) Qmax: A:10.8 (3.7) , B:10.8 (3.4)	A: 0.4 mg qd B: 5 mg qd Formulation: not specified Run-in: 2w single-blind, placebo-controlled	SPI symptom score I-PSS Adverse events
Intervention: A: Alfuzosin B: Tamsulosin C: Placebo				
Nordling J, 2005 Denmark	Total: 625(ITT, n=611)	Age: A(1): 65 (51- 85), A(2): 65 (50 – 84), B: 64 (50-87) , C: 64 (50 - 82)	A(1): 10 mg qd ER	I-PSS

RCT	A(1): 100% (154/154) A(2): 100% (158/159) B: 100% (158/158) C: 100% (153/154) 12 weeks	Total I-PSS: A(1): 20 (NR), A(2): 20 (NR), B:20 (NR) C: 20 (NR) Qmax: A(1): 8.9 (5.0-12.6) , A(2): 8.7 (5.0-11.9), B: 8.8 (4.7-12.0), C: 9.0 (4.0-12.5)	A(2): 15 mg qd ER B: 0.4 mg qd C: Placebo Formulation: Extended Release (ER) Run-in: 28 day single-blind, placebo	Qmax Adverse events
Intervention: A: Tamsulosin B: Alfuzosin C: Placebo				
Hofner K, 1999 United Kingdom RCT	Tamsulosin versus placebo A: 381 (C1: 193 (tamsulosin placebo) Tamsulosin versus alfuzosin A: 131 B: 124 12 weeks	Age: NR IPSS: NR Qmax: NR	A: Tamsulosin 0.4 mg qd B: Alfuzosin 2.5 mg bid, titrated up to tid C: Placebo Formulation: NR Run-in: placebo, 2 weeks	Sexual function
Intervention: A: Tamsulosin, B: Tolterodine ER, C: Placebo, D: Tolterodine ER combined with Tamsulosin (n=1)				
Kaplan S, 2006 United States RCT	Total: 879 A: 215 B: 217 C: 222 D: 225 3 months	Age: A: 61.7 (10.5) , B: 61.8 (9.6) , C: 62.8 (9.7) , D: 61.0 (9.6) Total I-PSS: A: 20.0 (5.0), B: 19.5 (5.2)C: 20.0 (5.4), D: 20.1(5.5) Qmax: A: 13.4 (7.6) , B: 13.3 (7.8), C: 12.2 (6.6) ,D: 12.7 (6.8) Men had diary-documented symptoms of overactive bladder and significant BOO (IPSS ≥ 12, PVR >200 mL and Qmax <5 mL/s)	A: Tam 0.4 mg qd B: Tolt 4 mg ER qd C: Placebo D: Tam 0.4 mg qd + Tolt 4 mg qd Formulation: Tolterodine: Extended Release (ER) Run-in: "baseline period"	I-PSS Score Urinary incontinence Symptom diaries Perception of treatment benefit
Intervention: A: Dutasteride + Tamsulosin B: Dutasteride + Tamsulosin; Dutasteride + Placebo				
Barkin J, 2003 Multi-country RCT SMART-1 trial	Total: 327 A: 164 B: 163 36 weeks	Age: A: 67.6 (7.1); B: 66.9 (7.5) Total I-PSS: A: 16.4(5.8); 16.5 (5.2) Qmax: NR	A: Dut 0.5mg qd + Tam 0.4mg qd B: Dut 0.5mg qd + placebo (12w) Formulation not specified Run in: 1 month placebo run-in; 1 week single-blind washout period to monitor Tamsulosin withdrawals	I-PSS scores QoL Adverse events

* Number of patients randomized
Data are reported as mean (standard deviation) unless otherwise indicated.

Table 3.3b. Efficacy and effectiveness outcomes in tamsulosin randomized, controlled trials

Author, Year Study duration	Intervention No. of patients assessed	Baseline Endpoint Mean Change	Within group P-value	Between group difference	Between group P-value
Total International Prostate Symptom Score (I-PSS)					
Chapple C, 2005 12 weeks	A: Tamsulosin A(1): OCAS 0.4 mg QD A(2): OCAS 0.8 mg QD A(3): MR 0.4 mg QD B: Placebo A(1): 354 , A(2): 707 A(3): 700, B:356	Baseline: A(1): 18.5 (4.4), A(2):18.6 (4.5), A(3):18.5 (4.5) , B:18.3 (4.5)) Endpoint: A(1):NR , A(2):NR , A(3): NR, B:NR Mean Change: A(1):-7.7(NR) A(2):-8.0 (NR) , A(3):-8.0 (NR) B:-5.8 (NR) (calculated)	NR	NR	A(1):B <0.0001 A(2):B NR A(3):B < 0.0001 A(2) vs. A(3) 0.9909
Kaplan S, 2006 12 weeks	A:Tamsulosin 0.4 mg qd B: Tolterodine 4 mg qd C:Placebo D:Tolterodine 0.4 mg qd + Tamsulosin 0.4 mg qd A: 197, B: 206, C: 213, D: 203	Baseline: A: 20.0 (5.0), B: 19.5 (5.2)C: 20.0 (5.4), D: 20.10 (5.5) Endpoint: in table Mean Change: NR	NR	NR	A: C, .007 B:C, NS D:C, <.01
Kawabe, 2006 12 weeks	A: Tamsulosin 0.2 mg bid B: Placebo bid A: 192 B: 89	Baseline: A: 17.0 (5.7) B: 17.1(6.1) Endpoint: A: NR B: NR Mean Change: A: -6.8 (5.7)B: -5.3(6.7) (reported)	NR	NR	NR
Lee E, 2002 24 weeks 4 w data also reported	A: Tamsulosin0.2 mg QD B: Finasteride5 mg QD A:78 B:83	Baseline: A: 19.9 (7.2) B: 19.0 (7.2) Endpoint: A:13.0(7.1); B: 13.1(7.6) Mean Change: A:-6.9(NR) B:-5.8(NR) (reported)	A: <0.05 B:<0.05	NR	A: B >0.05

Nordling J, 2005 12 weeks	A: Alfuzosin A(1): 10 mg qd A(2): 15 mg qd B: Tamsulosin 0.4 mg qd C: Placebo A(1): 154 A(2):158 B: 158 C:153	Baseline: A(1): 18.0 (5.4) A(2):17.4 (4.8) B: 17.4 (5.6) C:17.7 (5.0) Endpoint: A(1):NR A(2):NR B:NR C:NR Mean Change: A(1): -6.5(5.2) A(2):-6.0(5.6) B:-6.5(6.2) C:-4.6 (5.8)	NR	NR	A (1): C 0.007 A (2): C 0.05 B :C 0.014
Rigatti P, 2003 26 weeks	A: Tamsulosin0.4 mg qd B:Finasteride 5 mg qd A:193 B:202	Baseline: A: 16.3 (5.1) , B:16.9 (5.0) Endpoint: A:NR, B:NR Mean Change: A:-6.3 (5.5) B: -5.7 (5.7) (reported)	NR	NR	A: B 0.080
Barkin J, 2003 12 weeks	A: Dut 0.5mg qd + Tam 0.4mg qd B: Dut 0.5mg qd + placebo A: 164 B: 163	Baseline: A: 16.5 (5.2) , B: 16.4 (5.8) Endpoint: A: 10.3(NR); B: 11.1(NR) Mean Change: A: -6.2 (NR); B: -5.3 (NR)	NR	NR	NR
Quality of Life (Q of L) Sub-score					
Barkin J, 2003 36 weeks	A: Dut 0.5mg qd + Tam 0.4mg qd B: Dut 0.5mg qd + placebo A: 164 B: 163	Baseline: A: NR ; B: NR Endpoint: NR Mean Change: A: -1.1 (NR); B: -1.1(NR)	NR	NR	NR
Chapelle C, 2005 12 Weeks	A: Tamsulosin A(1): OCAS 0.4 mg QD A(2): OCAS 0.8 mg QD A(3): MR 0.4 mg QD B: Placebo	Baseline: A(1): 3.8 (1.1), A(2):3.8(1.1) , A(3): 3.8 (1.1), B: 3.8(1.0) Endpoint: A(1):NR , A(2): NR, A(3): NR B: NR Mean Change: A(1): -1.4 (1.3), A(2): -1.4 (1.4), A(3): -1.4 (1.3),	NR	A(1): B 1.53(NR) A(2):B NR A(3):B 1.60	A(1): B <0.01 A(2):B NR A(3):B <0.001

	A(1): 354 A(2): 707 A(3): 700 B: 356	B: -1.1 (1.3) (reported)		A(2):A(3 0.90(NR)	A(2): A(3) >0.05 (NS)
Kaplan S, 2006 3 months	A: Tam 0.4 mg qd B: Tolt 4 mg ER qd C: Placebo D: Tam 0.4 mg qd + Tolt 4 mg qd A: 198, B: 206, C: 213, D: 205	Baseline: A: 4.6 (0.9), B: 4.6 (0.9), C: 4.6 (1.0), D: 4.6 (0.9) Endpoint: NR (graphical data) Mean Change: NR	NR	NR	A:C: P>0.05 B:C: P>0.05 D:C: P<.01
Kawabe, 2006 12 weeks	A: Tamsulosin0.2 mg BID B: Placebo bid A: 192 B: 89	Baseline: A: 4.7 (0.8) B: 4.7 (0.9) Endpoint: A: NR B: NR Mean Change: A: -1.4 (1.3)B: -1.1 (1.2)	NR	NR	NR
Lee E, 2002 24 weeks 4 w data also reported	A: Tamsulosin0.2 mg QD B: Finasteride5 mg QD A:78 B:83	Baseline: A: 4.1 (1.0) B: 3.9 (1.2) Endpoint: A:2.6(1.2); B: 2.9(1.4) Mean Change: A:-1.4(NR) B:-0.9(NR) (reported)	A: <0.05 B:<0.05	NR	A: B <0.05
Rigatti P, 2003 26 weeks	A: Tamsulosin0.4 mg qd B: Finasteride5 mg qd A:193 B:202	Baseline: A: 3.2(1.0) , B:3.1(1.1) Endpoint: A:NR, B:NR Mean Change: A:-1.1(1.2) B: -1.0 (1.2)	NR	NR	A: B 0.163
Storage Sub-score					
Chapple C, 2005 12 Weeks	A:Tamsulosin A(1): OCAS 0.4 mg QD A(2): OCAS 0.8 mg QD A(3): MR 0.4 mg QD B: Placebo A(1): 354 A(2):707 A(3)700 A(4)356	Baseline: A(1): 7.8(2.6); A(2): 7.77(2.6); A(3): 7.8(2.6), B: 7.6(2.6) Endpoint: A(1):NR , A(2): NR, A(3): NR B: NR Mean Change: A(1): -3.0(2.8), A(2): .3.0(2.8), A(3): -3/0(2/7), B: -2.2(2.7) (reported)	NR	A(1):B -0.7(NR) A(2):B NR A(3): B -0.7 (NR) A(2): A(3) 0.0	A(1): B <0.001 A(2):B NR A(3):B <0.001 A(2): A(3) >0.05 (NS)
Kawabe, 2006	A: Tamsulosin0.2	Baseline: A: 6.2(2.9) B: 6.3(2.8)	NR	NR	NR

12 weeks	mg BID B: Placebo bid A: 192 B: 89	Endpoint: A: NR B: NR Mean Change: A: -2.1 (2.6), B: -1.5(2.6) (reported)			
Voiding Sub-score					
Chapple C, 2005 12 Weeks	A: Tamsulosin A(1): OCAS 0.4 mg QD A(2): OCAS 0.8 mg QD A(3): MR 0.4 mg QD B: Placebo A(1): 354 A(2): 707 A(3): 700 B:350	Baseline: A(1): 10.7 (3.4), A(2):10.9(3.3) , A(3): 10.8 (3.4), B: 10.6(3.4) Endpoint: A(1):NR , A(2): NR, A(3): NR B: NR Mean Change: A(1): -4.7(4.0), A(2): -5.0(4.1), A(3): -5.0(4.0), B: -3.7(3.8)	NR	A(1):B -1 (NR) A(2):B NR A(3): B -1.2 (NR) A(2): A(3) 0.0 (NR)	A(1): B <0.001 A(2):B NR A(3):B <0.001 A(2): A(3) >0.05 (NS)
Kawabe, 2006 12 weeks	A: Tamsulosin0.2 mg BID B: Placebo bid A: 192 B: 89	Baseline: A: 10.8(4.2), B: 10.9(4.4) Endpoint: A: NR B: NR Mean Change: A: -4.8 (4.1)B: -3.8(4.8)	NR	NR	NR
IPSS obstructive subscore					
Nordling J, 2005 12 weeks	A: Alfuzosin A(1): 10 mg qd A(2): 15 mg qd B: Tamsulosin0.4 mg qd C: Placebo	Baseline: A1: 10.3(3.9); A2: 9.8(3.6); B: 9.8(4.0); C: 10.1(3.6) Endpoint: NR Mean change: A1 -3.9(3.6); A2 -3.7(3.8); B -3.9(4.1); C; -2.8(4.0)	NR	NR	A1:C: 0.03 A2:C: 0.09 B:C: 0.01
Peak Urinary Flow Rate (Qmax (mL/s)) or Maximum Flow Rate					
Kawabe, 2006 12 weeks	A: Tamsulosin0.2 mg BID B: Placebo bid	Baseline: A: 9.41(2.8); B: 10.2(2.7) Endpoint: NR Mean change: A: 2.6(4.0); B: 0.26(2.2)	NR	NR	NR
Kaplan S, 2006 12 weeks	A: Tam 0.4 mg qd B: Tolt 4 mg ER qd C: Placebo D: Tam 0.4 mg qd + Tolt 4 mg qd	Baseline: A: 13.4 (7.6) , B: 13.3 (7.8), C: 12.2 (6.6) ,D: 12.7 (6.8) Endpoint: NR Mean Change: A:-0.22(NR); B: -0.60(NR); C: -0.53(NR): D: 0.07(NR)	All >0.05	NR	NSD between any 2 treatment groups (P>0.05)

	A: 198, B: 206, C: 213, D: 205				
Lee E, 2002 24 weeks 4 w data also reported	A:Tamsulosin 0.2 mg QD B: Finasteride5 mg QD A:78 B:83	Baseline: A: 9.2 (2.5) B: 9.6 (2.9) Endpoint: A:11.5(3.2); B: 11.7(4.3) Mean Change: A:2.2(NR) B:2.2(NR) (reported)	A: <0.05 B:<0.05	NR	A: B >0.05(NS)
Nordling J, 2005 12 weeks	A: Alfuzosin A(1): 10 mg qd A(2): 15 mg qd B: Tamsulosin, 0.4 mg qd C: Placebo A(1): 154 A(2):158 B: 158 C:153	Baseline: A(1): 9.2(NR) A(2):8.9 (NR) B: 9.4 (NR) C:9.0(NR) Endpoint: A(1):NR A(2):NR B:NR C:NR Mean Change: A(1): 1.5 A(2): 1.4 B:1.4 C: 0.5	NR	NR	A(1): C 0.02 A(2):C 0.02 B:C 0.02
Rigatti P, 2003 26 weeks	A: Tamsulosin0.4 mg qd B: Finasteride5 mg qd A:193 B:202	Baseline: A: 10.8 (3.7) , B:10.8 (3.4) Endpoint: A:NR, B:NR Mean Change: A:2.4 (5.9)) B: 1.9 (5.1)	NR	NR	A: B 0.163
Prostate Specific Antigen (PSA) (ng/mL)					
Rigatti P, 2003 26 weeks	A: Tamsulosin 0.4 mg qd B: Finasteride 5 mg qd A:193 B:202	Baseline: A: NR , B:NR Endpoint: A:NR, B:NR Mean Change: A:-0.13 (NR) B: -0.78(NR)	NR	NR	A:B <0.0001
Post Void Residual (PVR) (mL)					
Kaplan S, 2006 3 months	A:Tamsulosin 0.4 mg qd B: Tolterodine 4 mg qd C:Placebo D:Tolterodine 0.4 mg qd + Tamsulosin 0.4 mg qd	Baseline: A: 56.5 (55.0) , B: 50.5 (55.8) , C: 47.1 (47.7) , D:58.8 (53.8) Endpoint: NR Mean Change: A: 0.11(NR); B: 5.27(NR): C: -3.61(NR); D: 6.42 (NR)	All >0.05	NR	NSD between any 2 treatment groups (P>0.05)

	A:209 , B:210 , C:215 , D:217				
Prostate Volume: no study reported outcome data					
Detrusor pressure @ max flow (cmH20): no study reported outcome data					

Table 3.3c: Withdrawal and adverse event rates for tamsulosin randomized, controlled trials

Intervention Author, year	Number of patients randomized by intervention	Overall Withdrawal	Withdrawal by Treatment	Withdrawal due to AEs	≥1 treatment-emergent AE
Intervention: A: Tamsulosin B: Placebo					
Chapple C, 2005	A(1): 361 A(2): 724 A(3): 710 B: 338	5.0% (107/2133)	A(1) 5.0% (18/361) A(2): 6.2% (45/724) A(3): 3.5% (25/710) B: 5.6%(19/338)	A(1): 3.9% (14/361) A(2): 3.9% (28/724) A(3): 1.5%(11/710) B: 1.7% (6/357)	A(1): 11.1% (40/360)* A(2): 14.3% (103/722)* A(3): 11.6% (82/709)* B: 7.0% (25/356)*
Kawabe K, 2006	A:192 B:89	NR	NR	A: 5.7% (11/192) B: 4.5% (4/89)	Incidence rates of AEs: A: 82.3% B: 71.6% Incidence of drug-related AEs: A: 47.4% B: 36.4%
Intervention: A: Tamsulosin B: Finasteride					
Lee E, 2002	A:103 B:102	28.8% (59/205)	A:30.1% (31/103) B:27.5% (28/102)	A: 1.0% (1/103) (due to dyspnea) B: 5.9% (6/102) (all due to decreased potency)	A: 4/103 (3.9%) B: 23/102 (22.5%) Between-group P<0.001
Rigatti P, 2003	A: 204 B: 199	26 weeks 14.4%(58/403) 52 weeks 26.8%(108/403)	26 weeks A: 19.1% (39/204) B: 9.5% (19/199) 52 weeks A: 33.3%(68/204) B: 20.1%(40/199)	A: 9.3% (19/204) B: 6.5% (13/199)	A: 63/196 (32.1%) B: 60/204 (29.4%)
Intervention: A: Alfuzosin B: Tamsulosin C: Placebo					
Nordling J, 2005	A(1): 154 A(2): 159 B: 158 C: 154	7.5% (47/625)	A(1): 5.8% (9/154) A(2): 10.7% (17/159) B: 5.7% (9/158) C: 7.8% (12/154)	A(1): 2.6% (4/154) A(2): 8.8% (14/159) B: 3.8% (6/158) C: 3.3% (5/154)	A(1): 37.7% (58/154) A(2): 38.6% (61/158)* B: 36.7% (58/158) C: 34.0% (52/153)*
Intervention: A: Tamsulosin, B: Tolterodine ER, C: Placebo, D: Tolterodine ER combined with Tamsulosin					
Kaplan S, 2006	A: 198, B: 206, C:	14.0% (123/879)	A: 13.5 % (29/215)	A: 3.3% (7/215)	NR

A: Tam 0.4 mg qd B: Tolt 4 mg ER qd C: Placebo D: Tam 0.4 mg qd + Tolt 4 mg qd	213, D: 205		B: 12.4% (27/217) C: 14.4% (32/222) D: 15.1% (34/225)	B: 2.3% (5/217) C: 3.2% (7/222) D: 8.9% (20/225)	
Intervention: A: Tamsulosin B: Alfuzosin C: Placebo					
Hofner K, 1999 Meta-analysis of 3 previously published RCTs	Tamsulosin versus placebo A: 381 (C1: 193 (tamsulosin placebo) Tamsulosin versus alfuzosin A: 131 B: 124 12 weeks	NR	NR	NR	NR
Intervention: A: Dutasteride + Tamsulosin B: Dutasteride + Tamsulosin; Dutasteride + Placebo					
Barkin J, 2003** A: Dut 0.5mg qd + Tam 0.4mg qd B: Dut 0.5mg qd + placebo	A: 164 B: 163	7.6% (25/327)	A: 6.7% (11/164) B: 8.6% (14/163)	A: 11/164 (15%) B: 5/163 (3%)	A: 17.7% (29/164) B: 16.6% (27/163)

* number assessed for this outcome subset of total randomized

** Barkin J, 2003: initial population size (327) is used to determine withdrawals since it is unclear if the authors are taking the 91% completion rate from the 24w population size (305) or the initial population size

Table 3.3d. Adverse events in tamsulosin randomized, controlled trials

Intervention Author, Year	No. of patients assessed	Mortality	Cardiovascular				CNS				Gastrointestinal		IFIS	Sexual Function		Urinary Tract	
			Dizziness	Hypotension	Orthostatic Hypotension	Syncope	Asthenia/fatigue	Headache	Malaise	Somnolence	Diarrhea	Other GI		Abnormal Ejaculation	Erectile Dysfunction	Urinary Incontinence Other	Other
Intervention: A: Tamsulosin B: Placebo (n=2)																	
Chapple C, 2005 A(1): 0.4 mg QD A(2): 0.8 mg QD A(3): 0.4 mg QD B: placebo	A(1): 360 A(2): 709 A(3): 722 B: 356	A (1): 0% A (2): 0.1% (1/709) A (3): 0.1% (1/722) B: 0.1% (1/356)	A(1): 1.4% (5/360) A(2): 1.3% (9/709) A(3): 2.4% (17/722) B: 1.4% (5/356) Between group comparisons were not statistically significant	Cardiovascular AEs (dizziness, hypotension, orthostatic hypotension, syncope, depressed level of consciousness A(1): 2.5% (9/360)* A(2): 3.9% (28/722) A(3): 3.2% (23/709) B: 2.2% (8/356)			NR	NR	NR	NR	NR	NR	NR	Abnormal ejaculation A(1): 1.9% (7/360) A(2): 3.1% (22/709) A(3): 5.3% (38/722) B:.3% (1/356) A3): B, 0.014 A(2): B, 0.0002 A(2): A(1), 0.04 Retrograde ejaculation A(1): 1.7% (6/360) A(2): 1.4% (10/709) A(3): 2.5% (18/722) B: 3% (1/356)	NR	NR	NR
Kawabe K, 2006	A: 192 B: 89	NR	A: 7.3% (14/192) B: 4.5% (4/89)	NR	NR	NR	NR	NR	NR	NR	Diarrhea A: 6.8% (13/192) B: 5.6% (5/89)	Loose stool A: 3.6% (7/192) B: 4.5% (4/89)	NR	A: 1.6% (3/192) B: 0% (0/89)	NR	A: 5.7% (11/192) B: 0% (0/89)	URTI A:27.6% (53/192) B: 19.1% (17/89)
Intervention: A: Tamsulosin B: Finasteride (n=2)																	
Lee E, 2002	A: 103 B: 102	NR	NR	NR	NR	NR	NR	A: 1/103 B: 0	NR	NR	NR	Loose stoole A: 0 B: 1/102	NR	Decreased ejaculatory volume A: 0 B: 3/102	Decreased potency A: 0 B: 15/102 Impotence A: 0 B: 5/102	NR	NR
Rigatti P,	A: 204	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	A: 2.9% (6/204)	Impotence	A: 0.5%	UR

2003	B: 199													B: 1.0% (2/199)	A: 7/196(3.1%) B: 7/204(3.4%	(1/204) B: 0.5% (1/199)	A: 1/196 B: 1/204
Intervention: A: Alfuzosin B: Tamsulosin C: Placebo (n=1)																	
Nordling J, 2005	A(1): 154 A(2): 158 B: 158 C: 153	NR	A(1): 5.8% (9/154) A(2): 7.0% (11/158) B: 1.9%(3/158) C: 4.0% (6/153)	A(1): 0% (0/154)^ A(2): 0.6% (1/158) B: 0.6% (1/158) C:0% (0/153)	NR	A(1): 0% (0/154) A(2): 1.3% (2/158) B: .6%(1/158) C: 0% (0/153)	A(1): 2.6% (4/154) A(2): 6.3% (10/158) B: 3.8% (6/158) C: 2.0% (3/153)	A(1):1.9% (3/154) A(2): 2.5%(4/158) B: 4.4%(7/158) C: 3.2%(5/153)	A(1): 0% (0/154) A(2): 0.6% (1/158) B: 0% (0/158) C: 0% (0/153)	A(1): 0% (0/154) A(2): 0.6% (1/158) B: 0% (0/158) C: 1.3% (2/153)	NR	NR		Ejaculation disorder A(1): 1.3% (2/154) A(2): 0% (0/158) B: 3.2%(5/158) C: 0% (0/153) A(1): C, P=0.12 A(2):C, P=0.50	A(1): 1.3% (2/154) A(2): 1.3% (2/158) B: 4.4% (7/158) C: 0% (0/153) NR	NR	NR
Intervention: A: Tamsulosin, B: Tolterodine ER, C: Placebo, D: Tolterodine ER combined with Tamsulosin (n=1)																	
Kaplan S, 2006	A: 215 B: 216 C: 220 D: 225	NR	A: 6% (12/215) B: 1% (3/216) C: 1% (2/220) D: 3% (6/225)	NR	NR	NR	A: 1% (3/215) B: 1% (2/216) C: 3% (6/220) D: 1% (2/225)	A: 4% (9/215) B: 1% (2/216) C: 3% (7/220) D: 6% (14/225)	NR	A: 2% (5/215) B: 1% (2/216) C: 1% (2/220) D: 2% (4/225)	Diarrhea A: 1% B: 4% C: 2% D: 4% Constipation A: 3% (6/215) B: 3% (7/216) C: 1% (3/220) D: 2% (5/225)	Dry mouth A: 7% B: 7% C: 2% D: 21%		Ejaculation failure A: 2% (4/215) B: 0% C: 0% D: 3% (7/225)	NR	See urinary incontinence diary outcome variables	Urinary retention A: 0% B: 2/216 (0.9%) C: 3/220 (1.3%) D: 2/225 (0.9%)
Intervention: A: Tamsulosin B: Alfuzosin C: Placebo																	
Hofner K, 1999 Meta-analysis of 3 previously published RCTs	Tamsulosin versus placebo A: 381 (C1: 193 (tamsulosin placebo) Tamsulosin	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Tam: 4.5%, placebo 1.0% P=0.045 Second comparison: Tam: 0.8% Alfuzosin: 0% P=1.00	ED Tam: 0.8% Placebo: 1.6% P=0.409 Decreased libido Tam 1.0% Placebo: 0%	NR	NR

	versus alfuzosin A: 131 B: 124 12 weeks														P=0.554 Second comparison, impotence: Tam: 3.1% Alfuzosin: 2.4% P=1.00		
Intervention: A: Dutasteride + Tamsulosin B: Dutasteride + Tamsulosin; Dutasteride + Placebo																		
Barkin J, 2003	A: 164 B: 163	NR	NR	NR	NR	NR	NR	NR	A: 3.7% B: 1.2%	NR	NR	NR	NR	A: 4.9% B: 5.5%	A: 3% B: 1.2%	UTI A: 0 B: 1.2% Dysuria A: 1.2% B: 1.2%	NR	

^any occurrence of orthostatic hypotension, defined as > than or = to 2 mmHg decrease in systolic BP (SBP) when standing, compared with SBP recorded while supine was recorded; *cardiovascular events (i.e. palpitations, tachycardia, hypotension, orthostatic hypotension, dizziness

Table 3.3e. Characteristics of tamsulosin single-group cohort studies

Author,Year, Country Follow-up Interval	Intervention Inclusion Criteria Sample Size	Demographic Characteristics	Total Withdrawals Withdrawals Due to AEs ≥1 Treatment Emergent AE
Single Group Cohort(n=8) Intervention: Tamsulosin			
Batista J, 2002, Spain 3, 6 months	Tamsulosin 0.4 mg qd Aged 45-75 y with complains of LUTS compatible with BPO 2740	Age: 62.6 (6.77) Total I-PSS: 20.3 (7.0) Qmax: NR	15.9% (435/2740) 2.4% (66/2740) NR
Mann R, 2000, United Kingdom 6 months	Tamsulosin (mean dose NR) Prescription for tamsulosin issued between June 1996 and January 1998 (99.2% men) 12.484 (had event data; additional 1077 had no event data)	Age: 66(12) Total I-PSS:NR Qmax: NR	31.4% (3543/11282) (stopped tamsulosin for any reason) NR NR
Muzzonigro G, 2005, Italy 12 weeks	Tamsulosin 0.4 mg MR qd Aged ≥ 45 y; LUTS/BPH, total I-PSS ≥ 8 273	Age: 64.3 (8.1) Total I-PSS: 16.6 (6.20) Qmax: 12.73 (6.9)	8.4% (23/273) 1.9% (5/261) 2.6% (total of 11 AEs)
Narayan P, 2001 and 2003, USA 64 weeks (2001), 4y (2003)	Tamsulosin 0.4 or 0.8 mg qd Men ≥ 45y who completed a previous 1y OLE of tamsulosin 949 (2001) and 604 (2003) Both 2001 and 2003 are open label extensions of 3 trials published in 1998; unclear why baseline sample size differs in the two publications.	2001 Age: 59.1 (NR) AUA symptom score: 17.7(NR) Qmax: 10.1(NR)	30% (283/949) 19% (176/949) 97% (925/949)
		2003 Age: 58.9 AUA Symptom Score: 17.4 Qmax: 10.1(NR)	34.6% (209/604) 15.7% (95/604) NR
Palacio A, 2004, Spain 5y	Tamsulosin 0.4mg qd Male patients >45y have complaints of LUTS suggestive of BPO > 6m; total I-PSS	Age: 65.4 (95% C.I., 65-65.7) Total I-PSS: 17.8(17.6 – 18.0)	6m: 0.9% (27/292) 5 y: 4.9 % (143/2921) NR

	7 2921	Qmax: 11.26 mL/s (CI 95% 10.81-11.71)	 12m: 105/292(3.6%) ; no events after 12m
Schulman CC, 2001 (includes Schulman 1999 and unpublished data) 4y	Tamsulosin 0.4mg qd or .8 mg qd Is an open label extension (OLE) study of a 12-week RCT; of 831 who entered the RCT, 516 elected to participate in the OLE 516	Age: 63.5 (8.1) Total I-PSS:nr Boyarsky symptom score: 9.6(3.0) Qmax:10.1 (3.2)	66% (342/515) 17% (90/515) 76% (392/515) (26% considered drug-related

Single-group Cohort (n=2) Intervention: Cataract Surgery			
Oshika T, 2007, Japan Intraoperative assessment	Cataract surgery Persons undergoing cataract surgery and receiving alpha-1 antagonists at the time of surgery 2643 eyes (1968 patients) 58 eyes of 50 persons taking tamsulosin	Age: NR Total I-PSS: NR Qmax: NR	NA
Srinivasan S, 2007, Canada Intraoperative assessment	Cataract surgery Men using alpha-blockers for benign prostatic hypertrophy Men who had cataract surgery by 2 experienced cataract surgeons, between January 2000 and July 2005 1612 cataract surgeries performed on 1298 men; 65 men (5%) were on systemic alpha-blockers; these 65 men had 95 cataract surgeries	Age: 75.9 (57.0-91.0) Total I-PSS: NR Qmax: NR	NA (retrospective cohort)

^percentage of persons taking antihypertensive agents

Table 3.3f. Characteristics of tamsulosin single-group cohort studies

Author,Year, Country Follow-up Interval	Intervention Inclusion Criteria Sample Size	Demographic Characteristics	Total Withdrawals Withdrawals Due to AEs ≥1 Treatment Emergent AE
Single Group Cohort(n=8) **Intervention: Tamsulosin**			
Batista J, 2002, Spain 3, 6 months	Tamsulosin 0.4 mg qd Aged 45-75 y with complains of LUTS compatible with BPO 2740	Age: 62.6 (6.77) Total I-PSS: 20.3 (7.0) Qmax: NR	15.9% (435/2740) 2.4% (66/2740) NR
Mann R, 2000, United Kingdom 6 months	Tamsulosin (mean dose NR) Prescription for tamsulosin issued between June 1996 and January 1998 (99.2% men) 12.484 (had event data; additional 1077 had no event data)	Age: 66(12) Total I-PSS:NR Qmax: NR	31.4% (3543/11282) (stopped tamsulosin for any reason) NR NR
Muzzonigro G, 2005, Italy 12 weeks	Tamsulosin 0.4 mg MR qd Aged ≥ 45 y; LUTS/BPH, total I-PSS ≥ 8 273	Age: 64.3 (8.1) Total I-PSS: 16.6 (6.20) Qmax: 12.73 (6.9)	8.4% (23/273) 1.9% (5/261) 2.6% (total of 11 AEs)
Narayan P, 2001 and 2003, USA 64 weeks (2001), 4y (2003)	Tamsulosin 0.4 or 0.8 mg qd Men ≥ 45y who completed a previous 1y OLE of tamsulosin 949 (2001) and 604 (2003) Both 2001 and 2003 are open label extensions of 3 trials published in 1998; unclear why baseline sample size differs in the two publications.	2001 Age: 59.1 (NR) AUA symptom score: 17.7(NR) Qmax: 10.1(NR)	30% (283/949) 19% (176/949) 97% (925/949)
		2003 Age: 58.9 AUA Symptom Score: 17.4 Qmax: 10.1(NR)	34.6% (209/604) 15.7% (95/604) NR
Palacio A, 2004, Spain 5y	Tamsulosin 0.4mg qd Male patients >45y have complaints of LUTS suggestive of BPO > 6m; total I-PSS 7	Age: 65.4 (95% C.I., 65-65.7) Total I-PSS: 17.8(17.6 – 18.0) Qmax: 11.26 mL/s (CI 95% 10.81-	6m: 0.9% (27/292) 5 y: 4.9 % (143/2921) NR

	2921	11.71)	12m: 105/292(3.6%) ; no events after 12m
Schulman CC, 2001 (includes Schulman 1999 and unpublished data) 4y	Tamsulosin 0.4mg qd or .8 mg qd Is an open label extension (OLE) study of a 12-week RCT; of 831 who entered the RCT, 516 elected to participate in the OLE 516	Age: 63.5 (8.1) Total I-PSS:nr Boyarsky symptom score: 9.6(3.0) Qmax:10.1 (3.2)	66% (342/515) 17% (90/515) 76% (392/515) (26% considered drug-related
Single-group Cohort (n=2) **Intervention: Cataract Surgery**			
Oshika T, 2007, Japan Intraoperative assessment	Cataract surgery Persons undergoing cataract surgery and receiving alpha-1 antagonists at the time of surgery 2643 eyes (1968 patients) 58 eyes of 50 persons taking tamsulosin	Age: NR Total I-PSS: NR Qmax: NR	NA
Srinivasan S, 2007, Canada Intraoperative assessment	Cataract surgery Men using alpha-blockers for benign prostatic hypertrophy Men who had cataract surgery by 2 experienced cataract surgeons, between January 2000 and July 2005 1612 cataract surgeries performed on 1298 men; 65 men (5%) were on systemic alpha-blockers; these 65 men had 95 cataract surgeries	Age: 75.9 (57.0-91.0) Total I-PSS: NR Qmax: NR	NA (retrospective cohort)

^percentage of persons taking antihypertensive agents

Table 3.3g. Adverse events in tamsulosin single-group cohort studies

Author, Year Dose	No. Patients Assessed Follow-up	Mortality Other	Cardiovascular				CNS			Gastrointestinal			Intra-operative Floppy Iris Syndrome	Sexual Function	
			Dizziness	Hypotension	Orthostatic hypotension	Syncope	Asthenia/ fatigue	Headache	Somnolence	Unspecified complaints	Diarrhea	Nausea		Abnormal ejaculation	Erectile Dysfunction
Intervention: Tamsulosin															
Batista J, 2002^ 0.4 mg qd	2740 6m	NR	0.8% (22/2740)	0.7% (18/2740)	0.1% (3/274)	NR	NR	NR	NR	0.4% (12/2740)	NR	NR	NR	Ejaculation disorder: 0.5% (13/2740)	NR
Mann R, 2000 Various All data reported as Incidence density per 1000 patient-months, month 2-6 of treatment	12484 6m	282/12484 ; none attributed to tamsulosin	2.9	0.7	NR	NR	Malaise: 1.9	1.6	NR	NR	NR	1.1	NR	Retrograde ejaculation: 0.3	ED or ejaculation failure: 2.6
Muzzonigro G, 2005 Tamsulosin 0.4 mg MR qd	261	NR	NR	0%	NR	NR	NR	NR	NR	NR	NR	NR	NR	0%	NR
Narayan P, 2001, 2003 0.4 mg qd and 0.8 mg qd	949 64w	NR Rhinitis: 49%	26.3% (250/949)	NR	NR	NR	15% (145/949)	35% (332/949)	5% (46/ 949)	NR	14% (134/949)	8% (74/949)	NR	30% (289/949)	6% (60/949)
	604 4y	Deaths: 1.5% (9/609) Rhinitis: 26% Increased cough 11%	10.1% (61/604)	NR	1.3% (8/604)	0.2% discontinued due to syncope	NR	18.4% (111/604)	NR	NR	NR	NR	NR	Discontinued due to abnormal ejaculation: 0.8% (5/604)	NR

Palacio A, 2004 0.4mg qd	2921 5y	NR	0.8% (23/2921)	0.5% (15/2921)	NR	NR	NR	0.3% (9/2921)	NR	NR	NR	NR	NR	1.5% (44/2921)	NR
Schulman C, 2001 0.4mg qd and 0.8mg qd	516 4y	0.4% (2/516) Urinary retention: 4.5% Prostate cancer: 1.4%	8.5% (44/515)	Postural hypotension: 2.9% (15/515)		1.0% (5/515)	3.9% (20/515)	4.7% (24/515)	0.8% (4/515)	NR	NR	NR	NR	4.9% (25/515) Decreased libido: 1.2%	5.4% (28/515)
Intervention: Cataract Surgery for Patients using Tamsulosin															
Oshika T, 2007 NA	58 eyes (50 persons) Intraoperative	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Patients taking tamsulosin: 43.1% (25/58) No cases with prazosin or terazosin	NR	NR
Srinivasan S, 2007 NA	18 men Intraoperative	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Of 65 men/95 eyes on systemic alpha-blockers, 14/95 (14.7%) had iris prolapsed and intraoperative miosis; 10/14 on tamsulosin	NR	NR

^Adverse events listed here are adverse reactions that induced the discontinuation of treatment

Table 3.4. Terazosin
Table 3.4a. Characteristics of terazosin randomized, controlled trials

Author, year Country Study duration	Total sample size Treatment groups (sample size*)	Demographic characteristics of the comparison group	Run-in period	Primary outcomes reported
Johnson TM, 2003 USA 12 months Secondary analysis of data from the VA Cooperative Study Program Trial included in prior report	1229 Terazosin: 262 Finasteride: 252 Combination: 272 Placebo: 254 1,078 completed 1y follow-up; 38 reported no episodes of nocturia; leaving 1,040 men for this analysis	Age: Terazosin: 65.2(NR) Finasteride: 65.3(NR) Combination: 65.1(NR) Placebo: 65.3(NR) AUA-7 SI Terazosin: 16.3(NR) Finasteride: 15.9(NR) Combination: 16.1(NR) Placebo: 16.1(NR) Qmax: Terazosin: 10.4(NR) Finasteride: 10.5(NR) Combination: 10.4(NR) Placebo: 10.4(NR)	NR	Nocturia episodes (see text)
Lowe FC, 1999 USA 12 months Subgroup analysis of HYCAT trial included in prior report	1896 (included in this analysis of BP) Terazosin: dosage NR Placebo NR	Age: Terazosin: NR Placebo: NR Total I-PSS: Terazosin: NR Placebo: NR Qmax: Terazosin: NR Placebo: NR	NR	Blood pressure-related side effects

* Number of patients randomized
Data are reported as mean (standard deviation) unless otherwise indicated.

Table 3.4b: Withdrawal and adverse event rates for terazosin randomized, controlled trials

Author, Year Study duration	Overall withdrawal rate	Treatment (number of patients randomized)	Withdrawal by treatment group	Withdrawal due to adverse effects	Percent of patients with 1 or more treatment-emergent adverse effects
Terazosin compared with placebo					
Johnson TM, 2003 12 months	Original RCT: 151/1229 Only 1-y completers were examined in this secondary analysis	Terazosin: 262 Finasteride: 252 Combination: 272 Placebo: 254	NA (completers only reported)	NA (completers only reported)	NR
Lowe FC, 1999 12 months	NR	Terazosin: 951 Placebo: 945	NR	On hypertensive treatment: terazosin: 4.5%; placebo: 2.6% (P=0.26) Not on hypertensive treatment: terazosin: 4.2%; placebo 2.1% (P=0.02)	On hypertensive treatment: terazosin: 14.3%; placebo 9.3% (P=0.06) Not on hypertensive treatment: terazosin: 13.5%; 5.9% (P<0.01)

Table 3.4c. Characteristics of terazosin single-group cohort studies

Author, Year Country Study duration	Intervention Inclusion criteria Sample size	Demographic characteristics at baseline	Total withdrawal rate Withdrawal rate due to adverse events Subject with one or more treatment emergent adverse events
Cohort with comparison group **Intervention: Terazosin; Finasteride**			
Islam AK, 2005 Bangladesh 6 months	Terazosin: 1mg QD for 3 days 2mg QD for 7 days 5mg QD for 6 months Finasteride: 5mg QD for 6 months IPSS 8-19; A Qmax > 10mL/s for a voided volume of at least 150 mL; PVR 50-100 mL 60	Age: Ter 63(50-70); Fin 62(52-70) Total IPSS: Ter 17.47(1.38); Fin 17.07(1.41) Qmax: Ter 10.7(0.92); Fin 11.7(0.96)	3/60(5%) NR NR

Table 3.4d. Adverse events in terazosin single-group cohort studies

Author, Year Dose	No. of patients assessed Study duration	Mortality	Cardiovascular					Central Nervous System				Gastrointestinal	IFIS	Sexual function	
			Dizziness	Drowsiness	Hypotension	Postural Hypotension	Syncope	Asthenia/ fatigue	Headache	Malaise	Somnolence			Abnormal ejaculation	Erectile dysfunction
Intervention: Terazosin															
Islam AK, 2005 Terazosin: 1mg QD for 3 days 2mg QD for 7 days 5mg QD for 6 months Finasteride: 5mg QD for 6 months	Ter: 30 Fin: 30	NR	Ter: 4(13.3.%) Fin: 1(3.33%)	NR	Supine hypertension Ter: 1(3.33%) Fin: 0	Ter: 1(3.33%) Fin: 0	NR	NR	Ter: 2(6.6%) Fin: 1(3.33%)	NR	NR	NR	NR	NR	NR

Table 3.5. The risk of intraoperative floppy iris syndrome with the use of various alpha blockers (adapted from Cantrell, 2008)

					Risk of IFIS in patients treated with:			
Reference	Design	Population	Overall prevalence or incidence of IFIS (%)	Exposure to systemic α_1AR Antagonist (%)	Tamsulosin (%)	Alfuzosin (%)	Doxazosin, Prazosin, or Terazosin (%)	Notes
Chang (2005)[2], clinical study #1	retrospective chart review	511 pts 706 eyes	10/511 pts (2.0%)	27/511 pts (5.3%)	10/16 pts (62.5%)	NA	0/11 pts	
Chang (2005)[2], clinical study #2	prospective case series	741 pts 900 eyes	16/741 pts (2.2%)	NA	NA	NA	NA	15/16 pts with IFIS were exposed to tamsulosin
Cheung (2006)[8]	prospective, nonrandomized observational study	2390 eyes	NA	17/2390 eyes	11/17 eyes (64.7%)	NA	NA	5 eyes all 3 criteria for IFIS, 6 eyes partial criteria
Blouin (2007)[4]	retrospective chart review	332 pts 461 eyes	61/461 eyes (13.2%)	64/332 pts (19.3%)	19/22 pts (86.4%)	2/13 pts (15.4%)	NA	

					Risk of IFIS in patients treated with:			
Reference	Design	Population	Overall prevalence or incidence of IFIS (%)	Exposure to systemic α_1AR Antagonist (%)	Tamsulosin (%)	Alfuzosin (%)	Doxazosin, Prazosin, or Terazosin (%)	Notes
Chadha (2007)[6]	prospective, nonrandomized observational study	1786 pts 1842 eyes	29/1842 eyes (1.6%)	74/1842 eyes (4%)	12/21 eyes (57%)	0/2 eyes (0%)	1/51 eyes (2%)	
Chang (2007)[7]	prospective, multicenter, nonrandomized observational series	135 pts 167 eyes	NA	135/135 pts (100%)	150/167 eyes (89.8%)	NA	NA	10% no IFIS 17% mild IFIS 30% moderate IFIS 43% severe IFIS
Oshika (2007)[10]	prospective, interventional case series	1968 pts 2643 eyes	29/2643 eyes (1.1%)	134/2643 eyes (5.1%)	25/58 eyes (43.1%)	NA	0/55 eyes* (0%)	4/21 eyes (19%) taking naftopidil
Srinivasan (2007)[11]	retrospective chart review	1298 pts 1612 eyes	13/1298 pts (1.0%)	65/1298 pts (5.0%)	10/18 pts (56%)	0/1	3/49 pts (6.1%)	
Takmaz (2007)[12]	prospective, nonrandomized observational study	774 pts 858 eyes	16/858 eyes (1.9%)	24/858 eyes (2.8%)	14/18 eyes (77.8%)	1/2 eyes (50%)	1/4 eyes (25%)	

					Risk of IFIS in patients treated with:			
Reference	Design	Population	Overall prevalence or incidence of IFIS (%)	Exposure to systemic α_1AR Antagonist (%)	Tamsulosin (%)	Alfuzosin (%)	Doxazosin, Prazosin, or Terazosin (%)	Notes
Amin (2008)[3]	prospective, nonrandomized observational study	1267 pts 1462 eyes	13/1462 eyes (0.9%) 11/1267 pts (0.9%)	23/462 eyes (5%) 16/1267 pts (1.3%)	13/23 eyes (57%)	NA	NA	
Keklikci (2008)[9]	prospective, nonrandomized observational study	579 pts 594 eyes	15/594 eyes (2.5%)	23/579 pts (4%)	12/23 pts (52%)	NA	NA	

* Including urapidil and silodosin users as well (numbers on individual agents not specified).

Table 3.6. Outcomes data for transurethral microwave treatment devices

Author, Year	TUMT Modality	Number of Patients	% Change in Qmax	% Change in PVR	% Change in IPSS	% Change in AUA Symptom Score	% Change in Madsen-Iverson score	% Change in QOL	Use in Retention	Study Length (mo)
Albala, 2003	TMx-2000™	119	58.1%	N/A	N/A	-47.1%	N/A	-49.1%	No	48
Lau,1998; Hallin, 1998	Prostatron® 2.0	64 to 323	-18.8 to 32%	-21.6 to -46.7%	-24.5 to -55.8%	N/A	-36.9 to -55.8%	-27.6 to -49.1%	No	8.8 to 60
D'Ancona,1998; Laguna,2002	Prostatron® 2.5	31 to 388	55.3 to 62.4%	-44.6%	-50.8 to -56.8%	N/A	-56.4%	-51.3%	No	12 to 30
Laguna, 2002; Vesely, 2005	Prostatron® 3.5	129 to 388	55.3%	N/A	-43.4 to -50.8%	N/A	N/A	-51.3 to -60.5%	No	12 to 30
Floratos, 2001	Prostatron®	78	29.3%	N/A	-40.0%	N/A	N/A	N/A	No	36
Djavan, 2001; Thalmann, 2002; Osman,2003; Miller, 2003;	Targis®	20 to 429	-71.1% to 116.7%	-84.1 to -91.9%	-39.8 to -87%	-39.0 to -56.1%	N/A	-38.6 to -52.0%	Yes	2.5 to 60

Berger, 2005 Kellner ,2004; Tsukada, 2005; Kaplan, 2002										
Huidobro,2003	CTC	40	29.6%	N/A	N/A	-67.0%	N/A	-67.3%	No	12
Gravas, 2003; de la Rosette, 2003; David, 2004; Schelin, 2006; Mattiasson, 2007	CoreTherm ®	33 to 180	50 to 111.9%	-5.2 to -40.6%	-64.8% to -69.4%	-38.9%	N/A	N/A	Yes	5.6 to 60
Bock, 2004	Prolieve™	94	N/A	N/A	N/A	N/A	N/A	N/A	No	12

Please note that changes in Qmax and PVR were not statistically significant for studies involving Prostatron® 2.0.

