2018 and Beyond

Practicing Urologists Across the Globe





American Urological Association Advancing Urology^{**}

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The American Urological Association would like to thank all the members of the global urologic community for their continued support and participation in the Annual Census.

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SUMMARY

PURPOSE

The American Urological Association (AUA) published its first report on practicing urologists across the globe in 2016 using the 2015 AUA Annual Census data. The AUA is releasing an updated report on practicing urology globally using data primarily from the 2018 AUA Annual Census. Findings from this report help build a base for both longitudinal and cross-country comparisons of the urology workforce landscape.

METHODS

Data describing the urology workforce and clinical practice were primarily collected through the 2018 AUA Census. Three questions related to the use of AUA clinical guidelines and the treatment of advanced prostate cancer and minimally invasive procedures were from the 2017 AUA Annual Census. Weighted analyses of samples to represent the entire population of practicing urologists within the United States were performed and used as baselines for comparison. Due to the inaccessibility of national master files of practicing urologists outside the United States, unweighted sample analyses of practicing urologists in other countries were performed and compared. Continents and countries with 20 or more respondents were included in this report.

RESULTS

A total of 4,217 practicing urologists from 110 countries completed the Census, including 2,393 from the United States and 1,824 from outside the United States. Remarkable variations are observed in workforce characteristics and practice patterns across countries and continents. The variations include demographics, work setting, employment status, work hours and patient encounters, use of electronic health records, adherence to clinical practice guidelines in clinical decision-making, other professional roles, and the number of weeks used for vacation. Smaller variations were seen in subspecialization and planned retirement age.

CONCLUSIONS

Findings from this study provide descriptive accounts of the various global experiences and information that may bridge knowledge gaps, inform urology workforce planning and implementation, and ultimately, improve global urologic health.

About the American Urological Association (AUA)

THE ORGANIZATION

Founded in 1902, the AUA is a premier urologic association providing invaluable support to the urologic community.

AUA MISSION

The AUA mission is to promote the highest standards of urological clinical care through education, research and the formulation of health care policy.

AUA VISION

The AUA vision is to be the premier professional association for the advancement of professional urologic patient care.

AUA ANNUAL CENSUS

The AUA's Annual Census (AUAnet.org/Census) is a systematically designed, specialty-wide survey of urology. The primary goal of the Census is to provide a definitive source of data surrounding the urologic community, such as providers' geographic distribution, demographic characteristics, education and training, and patterns of urology practice. The data collected assist in filling knowledge gaps and meeting research needs while, ultimately, improving patient care.

For more information about the AUA, please visit AUAnet.org.

INTRODUCETION

Millions of individuals who are affected by urologic diseases and conditions, such as urologic cancers, sexual dysfunction/infertility and urinary incontinence, are clinically cared for by urologists. As surgical specialists, urologists must also demonstrate expertise in internal medicine, pediatrics, gynecology and other specialties due to the overlap of various conditions. As the global population grows and ages, the demand for urologists has intensified. Research about the urologic workforce and practice, including cross-national variations, is increasing in importance. Such research is needed in order to prepare the appropriate workforce to meet future population needs and improve global health.

The objective of this study was to characterize and compare urologists across the globe on workforce demographics, training, sub-specialization, practice setting, employment status, professional roles, workload and productivity, the adoption of new techniques, and other characteristics of clinical practice through a single questionnaire and a comparable analytical approach. Findings from this study provide information that can bridge knowledge gaps, inform urology workforce planning and implementation, and ultimately, improve urologic care worldwide.

The American Urological Association (AUA) published its first report on the practicing urologists across the globe in 2016 using the 2015 Annual Census data. The AUA is releasing an updated report on practicing urologists globally using data primarily from the 2018 Annual Census. Findings from this report help build a base for both longitudinal and cross-country comparisons of the urology workforce.

AVA Annual Census

Data and Methods

DATA SOURCES

Data used in this study were primarily collected through the 2018 Annual Census, a systematically designed annual survey of urology. The exceptions are Tables 14, 15 and 16, where data were collected from the 2017 AUA Annual Census. Among the AUA's more than 20,000 members throughout the world, two-thirds are based within the United States. The 2018 AUA Annual Census was launched during the AUA Annual Meeting in San Francisco on May 18, 2018, and remained online to both AUA members and non-members until September 30, 2018. Each respondent was assigned an identification number prior to completing the Census questions, which ensures that no respondent could take the survey more than once. In this study, 4,217 practicing urologists from 110 countries completed the Census, including 2,393 practicing urologists from the United States and 1,824 practicing urologists from outside the U.S.

DATA ELEMENTS

Data collected from practicing urologists include demographics (age, gender and race), education and training, geographical location of practice, practice setting, size of practice, subspecialty areas, years of practice in urology, employment status, clinical work hours per week, patient encounters per week, other professional roles, use of electronic health records (EHRs), and intended retirement age.

DATA ANALYSIS

Data were analyzed using both IBM-SPSS 22.0 and MS Excel and presented at both the continent and country levels. Only continents and countries with 20 or more responses were reported. Countries and territories with less than 20 respondents were merged into one group within each continent for analysis and; were reported as part of their corresponding continents as listed below in order of the number of responses in the AUA Annual Census:

North America: Puerto Rico, Panama, Costa Rica, El Salvador, Guatemala, Honduras, Jamaica, Cuba, Nicaragua, Trinidad and Tobago, Haiti, Barbados, Cayman Islands, Mauritania, Saint Lucia, Saint Vincent and the Grenadines, Virgin Islands (U.S.);

South America: Ecuador, Venezuela, Uruguay, Paraguay, Aruba;

Europe: France, Switzerland, Poland, Netherlands, Greece, Russian Federation, Portugal, Romania, Ireland,

Great Britain, Slovakia (Slovak Republic), Austria, Belgium, Bulgaria, Albania, Czech Republic, Denmark, Finland, Hungary, Iceland, Serbia, Sweden, Latvia, Luxembourg, Republic of Macedonia, Norway;

Africa: Algeria, Cameroon, Ghana, Kenya, Morocco, Mozambique, Namibia, Nigeria, Senegal, South Africa, Sudan, Tunisia, Zimbabwe;

Oceania: New Zealand, French Polynesia;

Asia: Israel, Taiwan, Pakistan, Saudi Arabia, Iran, Iraq, Lebanon, Myanmar, Burma, Singapore, Thailand, United Arab Emirates, Hong Kong, Vietnam, Indonesia, Jordan, Sri Lanka, Kuwait, Malaysia, Armenia, Cambodia, Georgia, Kazakhstan, Maldives, Syria, Syrian Arab Republic.

DATA GENERALIZABILITY

Due to the availability of a master file of all practicing urologists within the United States, weighted analyses of the samples representing the entire population of practicing urologists in the U.S., that were reported previously, were used as baselines for comparison in this study. Samples from urologists outside the U.S. were directly analyzed without the adjustment for nonresponse due to the inaccessibility of such practicing urologist master files in other countries. Thus, results regarding practicing urologists from outside the U.S. apply solely to the Census samples and may not be generalizable.

PRIMARY OBSERVATIONS

GLOBAL COMPARISONS

- A total of 4,217 practicing urologists from 110 countries completed the 2018 AUA Annual Census, including 2,393 practicing urologists in the United States and 1,824 practicing urologists from outside of the United States. Continents and countries with 20 or more respondents were included in this report (TABLE 1).
- Practicing urologists are younger in China, Bolivia, • Colombia and Mexico, reporting median ages of 42, 45, 46 and 46, respectively. In contrast, practicing urologists are relatively older with a median age of 58 in the United Kingdom, Spain and Germany (TABLE 2).
- Fellowship training rates for practicing urologists vary by location. In the Republic of Korea, 100 percent of urologists have fellowship training, while the lowest percentage of fellowship-trained urologists was found in Bangladesh, where only 15 percent had this additional training (TABLE 4).
- Oncology and Endourology/Stone Disease are the most common fellowship training areas (TABLE 5) and subspecialties (TABLE 12) for urologists around the globe.
- Urologists in Spain have the highest median number • of years in practice (27), while those in Bolivia have the lowest median number of years (9) (TABLE 6).
- Urologists in Canada have the highest median number • of work hours per week (60), followed by India (56), the United States (55) and Germany (55) (TABLE 7); while practicing urologists in the Republic of Korea, India and Canada see the most patients at 100 or more per week (TABLE 8).
- Practicing urologists in Germany reported the highest median number of hours performing non-clinical work (12) (TABLE 7).



Urologists are most likely to report holding concurrent roles, including educator, researcher and practice manager or administrator (TABLE 17).

- Practice size varies significantly around the globe, with Egypt having the highest median number of urologists (20) in a single practice (TABLE 9).
- Urologists around the world are most likely to work in a university hospital setting (TABLE 11). Urologists in the Republic of Korea, the United Kingdom and Japan are more likely to be employees than those in the Philippines, Brazil, Bolivia and Australia, where urologists are more likely to work in private practice (TABLE 10).
- More than 75 percent of urologists around the globe

report performing major surgical procedures (TABLE 13). The percentage of urologists using minimally invasive procedures was highest in China (94.3 percent), India (89.0 percent) and Chile (87.5). This percentage was relatively lower in the United Kingdom (44.2 percent), Egypt (48.4 percent) and Bolivia (50 percent) (TABLE 15).

- Most practicing urologists around the globe treat advanced prostate cancer. The percentage of practicing urologists treating patients with advanced prostate cancer was highest in the Philippines (97.6 percent) and lowest in Egypt (48.4 percent) (TABLE 14).
- The percentage of urologists who use AUA clinical guidelines when making clinical decisions was highest in China and the Philippines (100 percent) and Chile (96.9 percent) (TABLE 16).
- The use of electronic health records (EHR) is widespread, with more than 62 percent of urologists in non-U.S. countries reporting EHR use. Of the urologists outside the United States that use EHRs, more than 85 percent report an improvement in the quality and accuracy of their work (TABLE 18).



Practicing urologists outside the **United States are more likely** to participate in telemedicine programs (20.9 percent) compared to U.S. urologists (11.7 percent). Telemedicine

use is highest among urologists in China (66.7 percent), Australia (40.9 percent), the Dominican Republic (40.0 percent) and Canada (39.5 percent) (TABLE 19).

- The percentage of urologists prescribing opioids for patients undergoing surgical procedures is markedly lower outside the United States (54.3 percent). However, more than 70 percent of urologists in the United States reported a reduction in the number of opioid prescriptions for surgical procedures compared to three years ago (TABLE 20).
- Nearly two-thirds of non-U.S. urologists receive enough funding from their practices to attend inperson meetings and to obtain continued medical education (TABLE 21).



A higher percentage of urologists outside the United States report satisfaction with their work-life balance (73.3 percent), and the

median number of vacation weeks across all countries globally is the same (TABLE 23).

• The global variation in the median planned retirement ages reported by urologists is narrow, ranging from 65 to 70. An exception is China, where urologists' median planned retirement age is 63 (TABLE 24). In every reported country, the primary reasons urologists plan to retire later are they enjoy practicing or they want to practice; economic pressure was also reported as one of the deciding factors reported by urologists in Argentina, Spain and China (TABLE 25).

COUNTRIES WITH THE MOST OBVIOUS CHANGES FROM 2015 TO 2018

The results from the 2015 report serve as baselines for comparison.¹

- **Canada:** The median number of patient encounters in a typical week increased by approximately 11 percent from 2015 to 2018 (TABLE 8) among the practicing urologists in Canada. During that same period, the percentage of urologists who have a concurrent role as a researcher decreased by 36.4 percent (TABLE 17).
- **Colombia:** The largest decrease was seen in the percentage of urologists in private practices from 39.3 percent in 2015 to 32.0 percent in 2018 (TABLE 10).
- India: The largest decrease was seen in the number of respondents to the AUA Annual Census by 11 percent (TABLE 1). The highest increases were reported in both the median number of clinical work hours by 33.3 percent and the total number of work hours per week by 27.3 percent (TABLE 7).
- **Dominican Republic:** The largest decreases were reported in the number of clinical hours per week by 43.3 percent, the total number of works hours per week by 40.0 percent (TABLE 7) and the median number of patient encounters in a typical week by 28.6 percent between 2015 and 2018 (TABLE 8). In contrast, the largest increase was seen in the number of urologists who have a concurrent role as educators by 105.6 percent (TABLE 17).
- **Germany:** Practicing urologists in Germany reported increases in the mean number of urologists per practice by 66.7 percent (TABLE 9) and the median number of years practicing urology by 33.3 percent between 2015 and 2018 (TABLE 6).

- **Italy:** The largest decreases were seen in both the median number of patient encounters in a typical week by 40.0 percent (TABLE 8), and the median number of years practicing urology by 28.0 percent between 2015 and 2018 (TABLE 6); while a four-time increase was reported in the percent of urologists in private practice (TABLE 10).
- Japan: Obvious decreases were seen in the percentage of fellowship-trained urologists from 81.8 percent in 2015 to 59.5 percent in 2018 (TABLE 4), the median number of clinical work hours per week by 25.0 percent, the total number of work hours per week by 25.9 percent (TABLE 7) and the median number of patient encounters in a typical week by 25.0 percent between 2015 and 2018 (TABLE 8).
- **Philippines:** The largest increases were reported in the median number of urologists per practice by three times (TABLE 9) and the number of urologists who also had a concurrent role as a practice administrator or manager by 77.4 percent (TABLE 17) between 2015 and 2018. The highest decrease was also seen in the median number of total work hours per week by 40.0 percent (TABLE 7) during that period.
- **Turkey:** The largest decreases were seen in the percentage of urologists who had a concurrent role as an educator by 52.4 percent or as a researcher by 50.3 percent (TABLE 17).

¹ https://www.auanet.org/Documents/research/census/AUA-International-Census-2015.pdf

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Table 1 shows 4,217 practicing urologists from 110 countries completed the 2018 Annual Census, comprised of 2,393 samples representing 12,660 practicing urologists in the United States and 1,824 practicing urologists from outside of the U.S. Continents and countries with 20 or more respondents were included in this report.

TABLE 1

Geographic Distribution of Respondents by Continents and Countries with 20 or More Respondents

Continent/Country		Number of Respondents
United States		2,393
Non-U.S. Countries		1,824
	Canada	83
	Dominican Republic	41
North America	Mexico	119
	Other North American Countries	88
	Continent Total [^]	331
	Argentina	126
	Bolivia	20
	Brazil	282
South America	Chile	27
South America	Colombia	50
	Peru	41
	Other South American Countries	31
	Continent Total	577
	Germany	46
	Italy	49
Furene	Spain	28
Europe	United Kingdom	31
	Other European Countries	141
	Continent Total	295
	Egypt	25
Africa	Other African Countries	46
	Continent Total	71
	Australia	22
Oceania	Other Oceania Countries	7
	Continent Total	29
	Bangladesh	20
	China	28
	India	89
	Japan	84
Asia	Republic of Korea	26
	Philippines	82
	Turkey	41
	Other Asian Countries	151
	Continent Total	521

^ The number of respondents were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census)

Based on the median age in years, practicing urologists are the youngest in China (42), Bolivia (45), Colombia (46) and Mexico (46). Urologists are the oldest in the United Kingdom (58), Spain (58) and Germany (58), as shown in Table 2.

TABLE 2

Median Age of Practicing Urologists

Continent/Country		Median Age^
United States		56
Non-U.S. Countries		51
	Canada	50
	Dominican Republic	49
North America	Mexico	46
	Other North American Countries	53
	Continent Total [^]	50
	Argentina	47
	Bolivia	45
	Brazil	49
Courth Annual co	Chile	53
South America	Colombia	46
	Peru	55
	Other South American Countries	57
	Continent Total	49
	Germany	58
	Italy	55
F	Spain	58
Europe	United Kingdom	58
	Other European Countries	52
	Continent Total	56
	Egypt	53
Africa	Other African Countries	49
	Continent Total	51
	Australia	54
Oceania	Other Oceania Countries	57
	Continent Total	54
	Bangladesh	48
	China	42
	India	52
	Japan	54
Asia	Republic of Korea	48
	Philippines	54
	Turkey	51
	Other Asian Countries	52
	Continent Total	51
	•	•

^AMedian ages were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S.)

Table 3 shows urology is a male-dominated profession globally; the percentages of female urologists are relatively high in Colombia (22.0%), Australia (18.2%), Italy (12.2%) and the Dominican Republic (9.8%).

TABLE 3Gender of Practicing Urologists

Continent/Country		Percent of Women (%)	Percent of Practices Making Efforts to Hire Women (%)	
United States		9.2	78.2	
Non-U.S. Countries		4.5	64.1	
	Canada	8.6	55.6	
	Dominican Republic	9.8	87.1	
North America	Mexico	6.7	70.5	
	Other North American Countries	8.0	58.2	
	Continent Total^	7.9	66.0	
	Argentina	2.4	54.9	
	Bolivia	5.0	61.5	
	Brazil	1.4	60.2	
Couth Amorica	Chile	3.7	52.9	
South America	Colombia	22.0	69.2	
	Peru	5.0	67.9	
	Other South American Countries	6.5	57.7	
	Continent Total	4.2	60.0	
	Germany	4.4	78.0	
	Italy	12.2	63.4	
_	Spain	3.6	40.0	
Europe	United Kingdom	3.2	76.2	
	Other European Countries	2.9	63.4	
	Continent Total	4.8	65.2	
	Egypt	0.0	58.8	
Africa	Other African Countries	0.0	71.4	
	Continent Total	0.0	66.7	
	Australia	18.2	76.2	
Oceania	Other Oceania Countries	0.0	100.0	
	Continent Total	13.8	81.5	
	Bangladesh	0.0	66.7	
	China	3.6	92.9	
	India	2.3	63.6	
	Japan	2.4	78.9	
Asia	Republic of Korea	0.0	63.2	
	Philippines	2.4	70.6	
	Turkey	0.0	48.0	
	Other Asian Countries	4.7	55.0	
	Continent Total	2.7	65.1	

^Percentages were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S.)

As shown in Table 4, practicing urologists are most likely to have fellowship training in the Republic of Korea (100.0%), China (89.3%), Canada (79.5%) and Australia (72.7%), and least likely to have such training in Bangladesh (15.0%), India (27.0%) and Colombia (28.0%).

TABLE 4

Formal Fellowship Training

Continent/Country		Percent of Fellowship Trained Urologists (%)
United States		37.4
Non-U.S. Countries		56.3
	Canada	79.5
	Dominican Republic	58.5
North America	Mexico	47.9
	Other North American Countries	45.5
	Continent Total [^]	56.5
	Argentina	62.7
	Bolivia	35.0
	Brazil	54.3
	Chile	55.6
South America	Colombia	28.0
	Peru	56.1
	Other South American Countries	67.7
	Continent Total	54.1
	Germany	71.7
	Italy	55.1
_	Spain	39.3
Europe	United Kingdom	51.6
	Other European Countries	64.5
	Continent Total	60.3
	Egypt	72.0
Africa	Other African Countries	65.2
	Continent Total	67.6
	Australia	72.7
Oceania	Other Oceania Countries	71.4
	Continent Total	72.4
	Bangladesh	15.0
	China	89.3
Asia	India	27.0
	Japan	59.5
	Republic of Korea	100.0
	Philippines	31.7
	Turkey	58.5
	Other Asian Countries	68.2
	Other Asian Countries	0012

APercentages were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S.)

Table 5 shows oncology is the most common fellowship training area for practicing urologists across the globe, followed by endourology/stone disease, and female pelvic medicine and reconstructive surgery.

TABLE 5Most Common Fellowship Training Areas

Continent/Country		Common Fellowship Training Area				
Continent/Country		Most Common	2nd Most Common	3rd Most Common		
United States		Oncology	Robotic Surgery	Pediatrics		
Non-U.S. Countries		Oncology	Endourology/Stone Disease	Erectile Dysfunction		
	Canada	Oncology	Endourology/Stone Disease	Pediatrics		
	Dominican Republic	Endourology/Stone Disease	Oncology	Male Infertility		
North America	Mexico	Endourology/Stone Disease	Oncology	Erectile Dysfunction		
	Other North American Countries	Endourology/ Stone Disease	Oncology	Renal Transplantation		
	Continent Total^	Endourology/Stone Disease	Oncology	Erectile Dysfunction		
	Argentina	Oncology	Endourology/Stone Disease	Erectile Dysfunction		
	Bolivia	Endourology/Stone Disease	Oncology	Erectile Dysfunction/ Male Infertility		
	Brazil	Oncology	Endourology/Stone Disease	Erectile Dysfunction		
South America	Chile	Oncology	Endourology/Stone Disease	Erectile Dysfunction/ Male Reconstruction/ Trauma		
	Colombia	Endourology/Stone Disease	Oncology	Male Infertility		
	Peru	Endourology/Stone Disease	Oncology	Renal Transplantation		
	Other South American Countries	Endourology/ Stone Disease	Oncology	Robotic Surgery		
	Continent Total	Oncology	Endourology/Stone Disease	Erectile Dysfunction		
	Germany	Oncology	Endourology/Stone Disease	Erectile Dysfunction		
	Italy	Oncology	Endourology/Stone Disease	Female Pelvic Medicine and Reconstructive Surgery		
Europe	Spain	Oncology	Robotic Surgery	Endourology/Stone Disease/Research		
	United Kingdom	Oncology	Endourology/Stone Disease	Erectile Dysfunction		
	Other European Countries	Oncology	Endourology/ Stone Disease	Erectile Dysfunction/ Robotic Surgery		
	Continent Total	Oncology	Endourology/Stone Disease	Erectile Dysfunction		

(Continued on page 16.)

TABLE 5Most Common Fellowship Training Areas (Continued)

Continent/Country		Common Fellowship Training Area			
Continent/Country		Most Common	2nd Most Common	3rd Most Common	
	Egypt	Endourology/Stone Disease	Erectile Dysfunction	Male Infertility	
Africa	Other African Countries	Oncology	Endourology/ Stone Disease	Erectile Dysfunction/ Male Infertility	
	Continent Total	Endourology/Stone Disease	Oncology	Erectile Dysfunction	
	Australia		Pelvic Medicine and tive Surgery	Endourology/Stone Disease	
	Other Oceania Countries		Oncology		
Oceania	Continent Total	Oncology	Female Pelvic Medicine and Reconstructive Surgery	Endourology/Stone Disease	
	Bangladesh	Oncology	Research	N/A	
	China	Oncology	Endourology/Stone Disease	Research	
	India	Endourology/Stone Disease	Oncology	Renal Transplantation	
	Japan	Oncology	Endourology/Stone Disease	Research	
Asia	Republic of Korea	Oncology	Endourology/Stone Disease	Female Pelvic Medicine and Reconstructive Surgery/Research	
	Philippines	Endourology/Stone Disease	Oncology	Pediatrics	
	Turkey	Oncology	Endourology/Stone Disease	Erectile Dysfunction	
	Other Asian Countries	Endourology/ Stone Disease	Oncology	Erectile Dysfunction	
	Continent Total	Oncology	Endourology/Stone Disease	Erectile Dysfunction	

^Percentages were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S.)

In Table 6, practicing urologists in Spain, Japan and Germany had the most years in the practice of urology, with respective median years of 27, 24 and 24, compared with Bolivia, Bangladesh and China with the fewest median years of 9, 10 and 10.

TABLE 6

Clinical Experience

	Median Number of Years Practicing Urology^
	21
	18
Canada	18
Dominican Republic	14
Mexico	15
Other North American Countries	19
Continent Total^	17
Argentina	15
Bolivia	9
Brazil	19
Chile	23
Colombia	15
Peru	17
Other South American Countries	20
Continent Total	18
Germany	24
Italy	18
Spain	27
United Kingdom	22
Other European Countries	17
Continent Total	20
Egypt	23
Other African Countries	16
Continent Total	18
Australia	20
Other Oceania Countries	19
Continent Total	20
Bangladesh	10
China	10
India	19
Japan	24
Republic of Korea	15
Philippines	18
Turkey	15
Other Asian Countries	17
Continent Total	17
	Dominican RepublicMexicoMexicoOther North American Countries Continent Total^ ArgentinaBoliviaBoliviaBrazilChileColombiaPeruOther South American Countries Continent Total GermanyItalySpainOther European CountriesOther African Countries Continent Total SpainOther African CountriesContinent TotalAustraliaOther Oceania CountriesContinent TotalAustraliaIndiaJapanIndiaJapanFeyublic of KoreaPhilippinesSuite Asian CountriesOther Asian Countries

[^]Median numbers of years were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Table 7 shows practicing urologists had both the longest median work hours and hours spent on clinical duties per week in Canada (60/50), India (56/48), the United States (55/48) and Germany (55/40).

TABLE 7 Number of Work Hours in a Typical Week

Continent/Country		Median Number of Work Hours per Week			
United States		Total	Clinical Work	Non-Clinical Work	
		55	48	5	
Non-U.S. Countries	5	42	30	8	
	Canada	60	50	10	
	Dominican Republic	24	17	6	
North America	Mexico	33	25	5	
	Other North American Countries	46	40	6	
	Continent Total [^]	45	36	6	
	Argentina	37	24	5	
	Bolivia	13	10	4	
	Brazil	40	30	8	
	Chile	40	32	5	
South America	Colombia	30	20	5	
	Peru	28	24	6	
	Other South American Countries	27	20	8	
	Continent Total	37	30	6	
	Germany	55	40	12	
	Italy	46	34	10	
_	Spain	43	30	10	
Europe	United Kingdom	45	35	10	
	Other European Countries	45	30	10	
	Continent Total	46	35	10	
	Egypt	40	25	10	
Africa	Other African Countries	44	35	8	
	Continent Total	43	30	8	
	Australia	48	40	10	
Oceania	Other Oceania Countries	47	30	15	
	Continent Total	47	40	10	
	Bangladesh	48	36	10	
	China	52	40	5	
Asia	India	56	48	8	
	Japan	43	30	10	
	Republic of Korea	41	30	10	
	Philippines	27	20	5	
	Turkey	30	20	5	
	Other Asian Countries	44	32	8	
	Continent Total	43	30	8	

^AMedian numbers were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Practicing urologists in the Republic of Korea, India and Canada saw the most patients per week (135, 100 and 100, respectively); meanwhile, they spent the shortest time with patients in a typical office visit (from 6 minutes to 12 minutes), as shown in Table 8.

TABLE 8 Patient Encounters

Continent/Country		Median Number of Patient Encounters in a Typical Week	Median Number of Minutes Spent with a Patient in a Typical Office Visit
United States		75	16
Non-U.S. Countries		60	15
	Canada	100	12
	Dominican Republic	50	17
North America	Mexico	40	25
	Other North American Countries	58	15
	Continent Total^	50	17
	Argentina	70	15
	Bolivia	52	15
	Brazil	60	20
South America	Chile	50	20
South America	Colombia	80	16
	Peru	40	15
	Other South American Countries	40	20
	Continent Total	60	15
	Germany	85	15
	Italy	30	20
_	Spain	50	14
Europe	United Kingdom	40	15
	Other European Countries	50	15
	Continent Total	50	15
	Egypt	75	15
Africa	Other African Countries	50	15
	Continent Total	51	15
	Australia	60	15
Oceania	Other Oceania Countries	40	15
	Continent Total	50	15
	Bangladesh	50	15
	China	30	10
	India	100	10
	Japan	60	10
Asia	Republic of Korea	135	6
	Philippines	60	15
	Turkey	50	15
	Other Asian Countries	70	10
	Continent Total	70	10

^AMedian numbers were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

As shown in Table 9, the median practice size varies greatly from the highest (Egypt [20 urologists]), China (12 urologists), and Spain (11 urologists) to the lowest (India, Australia, the Dominican Republic and Mexico [3 urologists]).

TABLE 9 Practice Size

Continent/Country		Median Number of Urologists per Practice
United States		6
Non-U.S. Countries		5
	Canada	5
	Dominican Republic	3
North America	Mexico	3
	Other North American Countries	3
	Continent Total^	3
	Argentina	5
	Bolivia	4
	Brazil	5
outh America	Chile	10
outh America	Colombia	7
	Peru	6
	Other South American Countries	4
	Continent Total	5
	Germany	5
	Italy	7
	Spain	11
Europe	United Kingdom	8
	Other European Countries	7
	Continent Total	7
	Egypt	20
Africa	Other African Countries	4
	Continent Total	5
	Australia	3
Dceania	Other Oceania Countries	4
	Continent Total	3
	Bangladesh	5
	China	12
	India	3
	Japan	8
Asia	Republic of Korea	6
	Philippines	5
	Turkey	5
	Other Asian Countries	5
	Continent Total	5
		-

AMedian numbers were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

As shown in Table 10, practicing urologists are most likely to work in private practices in the Philippines (62.2%), Brazil (60.6%), Bolivia (60.0%) and Australia (59.1%) versus least likely to work in private practices in the Republic of Korea (7.7%), China (10.7%) and the United Kingdom (12.9%). Table 10 also shows practicing urologists are most likely to work as employees in the Republic of Korea (88.5%), the United Kingdom (87.1%) and Japan (82.1%), and least likely to be employed in the Philippines (8.5%), Brazil (18.8%) and Mexico (25.2%).

TABLE 10

Practice Setting and Employment Status

Continent/Country		Percent of Urologists in Private Practice (%)	Percent of Urologists Who Are Employees Only (%)
United States		56.9	58.1
Non-U.S. Countries		37.7	44.1
	Canada	37.3	16.9
	Dominican Republic	46.3	36.6
North America	Mexico	47.9	25.2
	Other North American Countries	48.9	33.0
	Continent Total^	45.3	26.6
	Argentina	47.6	27.8
	Bolivia	60.0	40.0
	Brazil	60.6	18.8
South America	Chile	18.5	48.1
South America	Colombia	32.0	48.0
	Peru	29.3	53.7
	Other South American Countries	45.2	22.6
	Continent Total	50.3	28.1
	Germany	39.1	56.5
	Italy	14.3	61.2
Francis	Spain	17.9	64.3
Europe	United Kingdom	12.9	87.1
	Other European Countries	25.5	63.1
	Continent Total	23.7	64.4
	Egypt	28.0	80.0
Africa	Other African Countries	23.9	56.5
	Continent Total	25.4	64.8
	Australia	59.1	27.3
Oceania	Other Oceania Countries	28.6	42.9
	Continent Total	51.7	31.0
	Bangladesh	30.0	80.0
	China	10.7	60.7
Asia	India	38.2	53.9
	Japan	13.1	82.1
	Republic of Korea	7.7	88.5
	Philippines	62.2	8.5
	Turkey	17.1	53.7
	Other Asian Countries	20.5	70.9
	Continent Total	27.8	59.3

^Percentages were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Globally, the most common primary practice setting for urologists is the university hospital, followed by public and private hospitals, and then private practices as shown in Table 11.

TABLE 11Most Common Primary Practice Settings

Continent/Country		Most Common Primary Practice Settings			
Continent/Country		Most Common	2 nd Most Common	3 rd Common	
United States		Single urology groups	University hospitals	Multispecialty groups	
Non-U.S. Countries		University hospitals	Solo practices	Private hospitals	
	Canada	University hospitals	Solo practices	Single urology groups	
	Dominican Republic	Private hospitals	University hospitals	Single urology groups	
North America	Mexico	Non-university hospitals	Solo practices	Private hospitals	
	Other North American Countries	Solo Practices	Single urology groups	Non-university hospitals	
	Continent Total^	University hospitals	Solo practices	Single urology groups	
	Argentina	University hospitals	Multi-specialty groups	Single urology groups	
	Bolivia	Single urology groups	Multi-specialty groups/non-university hospitals		
	Brazil	Single urology groups	University hospitals	Solo practices	
	Chile	Non-university hospi	oitals/private hospitals University hospit		
South America	Colombia	Private hospitals	University hospitals	Single urology groups	
	Peru	Non-university hospitals	Private hospitals		
	Other South American Countries	Private hospitals	Single urology groups and Non-univers hospitals		
	Continent Total	Single urology groups	University hospitals	Private hospitals	
	Germany	University hospitals	Solo practices	Non-university hospitals	
Europe	Italy	University hospitals	Private hospitals	Non-university hospitals	
	Spain	University hospitals	Multi-specialty groups	Non-university hospitals/private hospitals	
	United Kingdom	University hospitals	Non-university hospitals	Multi-specialty groups	
	Other European Countries	University hospitals	Non-university hospitals	Private hospitals	
	Continent Total	University hospitals	Non-university hospitals	Private hospitals	

(Continued on page 23.)

TABLE 11 Most Common Primary Practice Settings (Continued)

Continent/Country		Most Common Primary Practice Settings		
Continent/Country	continent/country		2 nd Most Common	3 rd Common
	Egypt	University hospitals	Multi-specialty groups	Private hospitals
Africa	Other African Countries	University hospitals	Private hospitals	Solo practices
	Continent Total	University hospitals	Private hospitals	Single urology groups /solo practices
	Australia	Single urology groups	Solo practices	Non-university hospitals
Oceania	Other Oceania Countries	Non-university hospitals	Multi-specialty groups	
	Continent Total	Non-university hospitals	Single urology groups	Solo practices
	Bangladesh	Solo practices	University hospitals/non-university hospitals	
	China	University hospitals	Non-university hospitals	Multi-specialty groups
	India	Private hospitals	University hospitals	Solo practices
	Japan	University hospitals	Non-university hospitals	Private hospitals
Asia	Republic of Korea	University hospitals		pitals/single urology o practices
	Philippines	Solo practices	Private hospitals	University hospitals
	Turkey	University hospitals	Private hospitals	Solo practices
	Other Asian Countries	University hospitals	Non-university hospitals	Private hospitals
	Continent Total	University hospitals	Private hospitals	Solo practices

AMost common practice settings were selected at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.) Table 12 shows oncology and endourology/stone disease are the top two urology subspecialty areas among practicing urologists worldwide. Other common subspecialty areas include laparoscopic surgery, erectile dysfunction, female pelvic medicine and reconstructive surgery, male genitourinary reconstruction, and robotic surgery.

TABLE 12Most Common Subspecialty Areas

Continent/Country		Most Common Subspecialties			
Continent/Country		Most Common	2 nd Most Common	3 rd Common	
United States		Oncology	Endourology/Stone Disease	Erectile Dysfunction	
Non-U.S. Countries		Oncology	Endourology/Stone Disease	Erectile Dysfunction	
	Canada	Oncology	Endourology/Stone Disease	Erectile Dysfunction/ Laparoscopic Surgery	
Marcella Association	Dominican Republic	Endourology/Stone Disease	Oncology	Erectile Dysfunction	
North America	Mexico	Endourology/Stone Disease	Oncology	Erectile Dysfunction	
	Other North American Countries	Endourology / Stone Disease	Oncology	Erectile Dysfunction	
	Continent Total^	Endourology/Stone Disease	Oncology	Erectile Dysfunction	
	Argentina	Oncology	Endourology/Stone Disease	Laparoscopic Surgery	
	Bolivia	Endourology/Stone Disease	Oncology	Laparoscopic Surgery	
	Brazil	Endourology/Stone Disease	Oncology	Erectile Dysfunction	
	Chile	Oncology	Endourology/Stone Disease	Erectile Dysfunction	
South America	Colombia	Oncology	Endourology/Stone Disease	Female Pelvic Medicine and Reconstructive Surgery	
	Peru	Endourology/Stone Disease	Oncology	Laparoscopic Surgery	
	Other South American Countries	Endourology / Stone Disease	Oncology	Laparoscopic Surgery	
	Continent Total	Oncology	Endourology/Stone Disease	Erectile Dysfunction	

(Continued on page 25.)

TABLE 12 Most Common Subspecialty Are (Continued)

Continent/Country		Mos	st Common Subspecia	lties
		Most Common	2 nd Most Common	3 rd Common
	Germany	Oncology	Endourology/Stone Disease	Erectile Dysfunction
	Italy	Oncology	Endourology/Stone Disease	Laparoscopic Surgery
Europa	Spain	Oncology	Laparoscopic Surgery	Endourology/Stone Disease
Europe	United Kingdom	Oncology	Endourology/Stone Disease	Erectile Dysfunction
	Other European Countries	Oncology	Endourology / Stone Disease	Erectile Dysfunction
	Continent Total	Oncology	Endourology/Stone Disease	Erectile Dysfunction
	Egypt	Endourology/Stone Disease	Oncology	Male Genitourinary Reconstruction
Africa	Other African Countries	Oncology	Male Infertility	Endourology / Stone Disease / Erectile Dysfunction
	Continent Total	Oncology/Endourology/Stone Disease		Male Infertility
	Australia	Endourology/Stone Disease	Oncology	Erectile Dysfunction
Oceania	Other Oceania Countries	Oncology	Endourology / Stone Disease	Laparoscopic Surgery
	Continent Total	Endourology/Stone Disease	Oncology	Laparoscopic Surgery
	Bangladesh	Endourology/Stone Disease	Oncology	Laparoscopic Surgery/Pediatrics
	China	Oncology	Endourology/Stone Disease	Laparoscopic Surgery
	India	Endourology/Stone Disease	Oncology	Laparoscopic Surgery
	Japan	Oncology	Laparoscopic Surgery	Robotic Surgery/ Endourology/Stone Disease
Asia	Republic of Korea	Oncology/Lapar	oscopic Surgery	Endourology/Stone Disease/Robotic Surgery
	Philippines	Oncolog	gy/Endourology/Stone	e Disease
	Turkey	Oncology	Endourology/Stone Disease	Laparoscopic Surgery
	Other Asian Countries	Endourology / Stone Disease	Oncology	Erectile Dysfunction
	Continent Total	Oncology	Endourology/Stone Disease	Laparoscopic Surgery

[^]Most common subspecialties were selected at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Most practicing urologists perform surgical procedures across the globe as shown in Table 13. The percentage of practicing urologists who perform surgical procedures is reported as 100% in the Republic of Korea, Bangladesh, Spain, Chile and Bolivia. In contrast, urologists performing rates of surgical procedures are relatively lower in Germany (78.3%), Japan (84.5%), Canada (89.2%) and the United Kingdom (90.3%).

TABLE 13

Percentage of Practicing Urologists Who Perform Surgical Procedures

Continent/Country	1	Percent of Urologists Who Perform Major Surgical Procedures (%)	
United States		80.2	
Non-U.S. Countrie	s	93.9	
	Canada	89.2	
	Dominican Republic	92.7	
North America	Mexico	94.1	
	Other North American Countries	93.2	
	Continent Total^	92.4	
	Argentina	93.7	
	Bolivia	100.0	
	Brazil	96.5	
	Chile	100.0	
South America	Colombia	94.0	
	Peru	97.6	
	Other South American Countries	93.5	
	Continent Total	95.8	
	Germany	78.3	
	Italy	93.9	
-	Spain	100.0	
Europe	United Kingdom	90.3	
	Other European Countries	88.7	
	Continent Total	89.2	
	Egypt	96.0	
Africa	Other African Countries	95.7	
	Continent Total	95.8	
	Australia	95.5	
Oceania	Other Oceania Countries	100.0	
	Continent Total	96.6	
	Bangladesh	100.0	
	China	92.9	
Asia	India	98.9	
	Japan	84.5	
	Republic of Korea	100.0	
	Philippines	98.8	
	Turkey	95.1	
	Other Asian Countries	95.4	
	Continent Total	95.0	

^Percentages were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Most practicing urologists treat patients with advanced prostate cancer across the globe, as shown in Table 14. The percentages of practicing urologists who treat patients with advanced prostate cancer were the highest in the Philippines (97.6%), Colombia (92.9%) and Bolivia (92.9%). In contrast, treating patients with advanced prostate cancer was relatively lower in Egypt (48.4%), Canada (56.1%) and Brazil (58.4%).

TABLE 14

Percentage of Practicing Urologists Who Treat Patients with Advanced Prostate Cancer in Their Practice

		Urologists Who Treat Advanced Prostate Cancer		
	Total Number of Urologists	Number of Urologists Who Answered Yes	Percentage (%)	
	1,985	1,522	76.9	
Canada	98	55	56.1	
Dominican Republic	55	45	81.8	
Mexico	123	106	86.2	
Other North American Countries	77	68	88.3	
Continent Total^	353	274	77.6	
Argentina	122	111	91.0	
Bolivia	14	13	92.9	
Brazil	281	164	58.4	
Chile	32	28	87.5	
Colombia	56	52	92.9	
Peru	37	31	83.8	
Other South American Countries	53	40	75.5	
Continent Total	595	439	73.8	
Germany	52	48	92.3	
Italy	50	34	68.0	
Spain	42	34	81.0	
United Kingdom	43	29	67.4	
Other European Countries	126	96	76.2	
Continent Total	313	241	77.0	
Egypt	64	31	48.4	
Other African Countries	57	53	93.0	
Continent Total	121	84	69.4	
Australia	27	20	74.1	
Other Oceania Countries	3	2	66.7	
Continent Total	30	22	73.3	
Bangladesh	26	17	65.4	
China	35	32	91.4	
India	82	73	89.0	
Japan	97	84	86.6	
Republic of Korea	31	24	77.4	
	85	83	97.6	
	32	20	62.5	
Other Asian Countries			69.7	
Continent Total	573	462	80.6	
	Dominican RepublicMexicoOther North American CountriesContinent Total^ArgentinaBoliviaBrazilChileColombiaPeruOther South American CountriesContinent TotalGermanyItalySpainOther European CountriesContinent TotalEgyptOther African CountriesContinent TotalBolyptOther African CountriesContinent TotalBangladeshContinent TotalBangladeshChinaIndiaJapanRepublic of KoreaPhilippinesTurkeyOther Asian CountriesContinesContinesContinesContinesContinesContinent TotalBangladeshChinaIndiaJapanRepublic of KoreaPhilippinesConter Asian CountriesContines <t< td=""><td>Total Number of Number of Number of Number of Number of Number of Notional Republic1,985Canada98Dominican Republic55Mexico123Other North American Countries77Continent Total^353Argentina122Bolivia14Brazil281Chile32Colombia56Peru37Other South American Countries53Continent Total595Germany52Italy50Spain42United Kingdom43Other European Countries126Continent Total313Egypt644Other African Countries57Continent Total313Egypt644Other African Countries31Dither Oceania Countries3Continent Total35India35India35India82Japan97Public of Korea31Philippines85Turkey32Other Afsian Countries31</td><td>Prostate CancerTotal Number of UrologistsNumber of Urologists1,9851,522Canada9855Dominican Republic5545Mexico123106Other North American Countries7768Continent Total^353274Argentina122111Bolivia1413Brazil281164Chile3228Colombia5652Peru3731Other South American Countries5340Continent Total595439Germany52448Italy5034Spain4234United Kingdom4329Other African Countries5753Continent Total313241Egypt6431Other African Countries5753Continent Total3022Bangladesh2617China3532India2617China3532India3234Agann9784Philippines8583Turkey3220Other Asian Countries3124Philippines8583Turkey3220Other Asian Countries3124</td></t<>	Total Number of Number of Number of Number of Number of Number of Notional Republic1,985Canada98Dominican Republic55Mexico123Other North American Countries77Continent Total^353Argentina122Bolivia14Brazil281Chile32Colombia56Peru37Other South American Countries53Continent Total595Germany52Italy50Spain42United Kingdom43Other European Countries126Continent Total313Egypt644Other African Countries57Continent Total313Egypt644Other African Countries31Dither Oceania Countries3Continent Total35India35India35India82Japan97Public of Korea31Philippines85Turkey32Other Afsian Countries31	Prostate CancerTotal Number of UrologistsNumber of Urologists1,9851,522Canada9855Dominican Republic5545Mexico123106Other North American Countries7768Continent Total^353274Argentina122111Bolivia1413Brazil281164Chile3228Colombia5652Peru3731Other South American Countries5340Continent Total595439Germany52448Italy5034Spain4234United Kingdom4329Other African Countries5753Continent Total313241Egypt6431Other African Countries5753Continent Total3022Bangladesh2617China3532India2617China3532India3234Agann9784Philippines8583Turkey3220Other Asian Countries3124Philippines8583Turkey3220Other Asian Countries3124	

^Percentages and numbers were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2017 AUA Annual Census - Percentages from unweighted samples from the 2017 AUA Annual Census for countries outside the U.S. were reported. No report on the U.S. urologists was made because this question was not asked in the same year.) Variations were seen among practicing urologists who utilize minimally invasive procedures using laparoscopy or robotics across the globe in Table 15. The percentages of practicing urologists who utilize minimally invasive procedures were the highest in China (94.3%), India (89.0%) and Chile (87.5%). In contrast, utilizing minimally invasive procedures using laparoscopy or robotics was relatively lower in the United Kingdom (44.2%), Egypt (48.4%) and Bolivia (50.0%).

TABLE 15

Percentage of Practicing Urologists Who Utilize Minimally Invasive Procedures Using Laparoscopy or Robotics in Their Practice

Continent/Country		Percentage of Urologists Who Utilize Minimal Invasive Procedures		
		Total Number of Urologists	Number of Urologists Who Answered Yes	Percentage (%)
Non-U.S. Countrie	s	1,985	1,418	71.4
	Canada	98	72	73.5
	Dominican Republic	55	36	65.5
North America	Mexico	123	99	80.5
	Other North American Countries	77	45	58.4
	Continent Total^	353	252	71.4
	Argentina	122	75	61.5
	Bolivia	14	7	50.0
	Brazil	281	202	71.9
Couth America	Chile	32	28	87.5
South America	Colombia	56	40	71.4
	Peru	37	29	78.4
	Other South American Countries	53	42	79.2
	Continent Total	595	423	71.1
	Germany	52	33	63.5
	Italy	50	41	82.0
F	Spain	42	36	85.7
Europe	United Kingdom	43	19	44.2
	Other European Countries	126	95	75.4
	Continent Total	313	224	71.6
	Egypt	64	31	48.4
Africa	Other African Countries	57	31	54.4
	Continent Total	121	62	51.2
	Australia	27	18	66.7
Oceania	Other Oceania Countries	3	2	66.7
	Continent Total	30	20	66.7
	Bangladesh	26	21	80.8
Asia	China	35	33	94.3
	India	82	73	89.0
	Japan	97	80	82.5
	Republic of Korea	31	23	74.2
	Philippines	85	57	67.1
	Turkey	32	24	75.0
	Other Asian Countries	185	126	68.1
	Continent Total	573	437	76.3

APercentages and numbers were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2017 AUA Annual Census - Percentages from unweighted samples from the 2017 AUA Annual Census for countries outside the U.S. were reported. No report on the U.S. urologists was made because this question was not asked in the same year.)

Most practicing urologists utilize AUA clinical guidelines when making clinical decisions across the globe, as shown in Table 16. The percentages of practicing urologists who utilize AUA clinical guidelines when making clinical decisions were the highest in China and the Philippines (100.0%), and Chile (96.9%). In contrast, utilizing AUA clinical guidelines when making clinical decisions was relatively lower in Australia (66.7%), the United Kingdom (69.8%) and Italy (72.0%).

TABLE 16

Percentage of Practicing Urologists Who Utilize AUA Clinical Guidelines When Making Clinical Decisions

Continent/Country		Practicing Urologists Who Utilize AUA Clinical Guidelines		
		Total Number of Urologists	Number of Urologists Who Answered Yes	Percentage (%)
Non-U.S. Countries		1,985	1,763	88.8
	Canada	98	89	90.8
	Dominican Republic	55	51	92.7
North America	Mexico	123	117	95.1
	Other North American Countries	77	75	97.4
	Continent Total^	353	332	94.1
	Argentina	122	109	89.3
	Bolivia	14	11	78.6
	Brazil	281	261	92.9
Courth Amorico	Chile	32	31	96.9
South America	Colombia	56	53	94.6
	Peru	37	35	94.6
	Other South American Countries	53	53	100.0
	Continent Total	595	553	92.9
	Germany	52	39	75.0
	Italy	50	36	72.0
Furene	Spain	42	35	83.3
Europe	United Kingdom	43	30	69.8
	Other European Countries	126	100	79.4
	Continent Total	313	240	76.7
	Egypt	64	58	90.6
Africa	Other African Countries	57	50	87.7
	Continent Total	121	108	89.3
	Australia	27	18	66.7
Oceania	Other Oceania Countries	3	3	100.0
	Continent Total	30	21	70.0
	Bangladesh	26	19	73.1
Asia	China	35	35	100.0
	India	82	70	85.4
	Japan	97	73	75.3
	Republic of Korea	31	29	93.5
	Philippines	85	85	100.0
	Turkey	32	29	90.6
	Other Asian Countries	185	169	91.4
	Continent Total	573	509	88.8

^Percentages and numbers were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2017 AUA Annual Census - Percentages from unweighted samples from the 2017 AUA Annual Census for countries outside the U.S. were reported. No report on the U.S. urologists was made because this guestion was not asked in the same year.) Practicing urologists are most likely to be an educator concurrently in Chile (29.6%), Brazil (20.6%), Canada (18.1%) and Colombia (18.0%) as opposed to Italy (4.1%), Bangladesh (5.0%), China (7.1%) and Spain (7.1%) as shown in Table 17. Additionally, practicing urologists are most likely to be a concurrent researcher in Egypt (24.0%), Canada (15.7%), Chile (14.8%) and Spain (14.3), compared to Bolivia (0.0%), Argentina (1.6%) and the Dominican Republic (2.4%). Practicing urologists are likely to serve as a practice manager or administrator in Chile (14.8%), Brazil (8.9%), the Philippines (11.0%) and Bangladesh (10.0%).

TABLE 17Concurrent Professional Roles

Continent/Country		Pe	ercentage of Urolo Concurrent R	
		Educator (%)	Researcher (%)	Practice Manager or Administrator (%)
United States		9.9	7.5	3.6
Non-U.S. Countri	es	13.4	9.4	4.3
	Canada	18.1	15.7	4.8
	Dominican Republic	14.6	2.4	2.4
North America	Mexico	9.2	7.6	2.5
	Other North American Countries	9.1	2.3	2.3
	Continent Total^	12.1	7.6	3.0
	Argentina	12.7	1.6	1.6
	Bolivia	15.0	0.0	0.0
	Brazil	20.6	11.0	8.9
Courth Annual co	Chile	29.6	14.8	14.8
South America	Colombia	18.0	6.0	2.0
	Peru	7.3	7.3	2.4
	Other South American Countries	19.4	6.5	6.5
	Continent Total	17.9	7.8	6.1
	Germany	8.7	8.7	2.2
	Italy	4.1	10.2	0.0
_	Spain	7.1	14.3	0.0
Europe	United Kingdom	16.1	12.9	0.0
	Other European Countries	10.6	12.1	2.8
	Continent Total	9.5	11.5	1.7
	Egypt	16.0	24.0	0.0
Africa	Other African Countries	17.4	21.7	2.2
	Continent Total	16.9	22.5	1.4
	Australia	9.1	9.1	4.5
Oceania	Other Oceania Countries	0.0	14.3	14.3
	Continent Total	6.9	10.3	6.9
	Bangladesh	5.0	5.0	10.0
	China	7.1	10.7	0.0
Asia	India	10.1	11.2	4.5
	Japan	11.9	13.1	2.4
	Republic of Korea	11.5	7.7	0.0
	Philippines	13.4	7.3	11.0
	Turkey	9.8	7.3	2.4
	Other Asian Countries	12.6	7.9	5.3
	Continent Total	11.3	9.2	5.0

^Percentages were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

As shown in Table 18, the electronic health records (EHR) systems are most commonly used by practicing urologists in Australia (95.5%), the United States (95.3%), Canada (89.2%) and South Korea (88.0%), and least commonly used in Bangladesh (20.0%), the Philippines (32.9%) and Germany (41.9%).

TABLE 18

Electronic Health Records Use and Improvement of Patient Care

Continent/Country		Percentage	e of Urologists
		Use Electronic Health Records (EHR) System (%)	Believe Using an EHR System Increases the Quality and Accuracy of Work (%)
United States		95.3	41.3
Non-U.S. Countries		62.4	85.6
	Canada	89.2	64.9
	Dominican Republic	82.9	85.3
North America	Mexico	62.2	91.9
	Other North American Countries	55.7	83.7
	Continent Total [^]	69.6	80.5
	Argentina	62.1	88.3
	Bolivia	70.0	92.9
	Brazil	66.7	90.1
South America	Chile	84.0	85.7
South America	Colombia	68.8	90.9
	Peru	56.1	87.0
	Other South American Countries	66.7	90.0
	Continent Total	66.1	89.5
	Germany	41.9	61.1
	Italy	59.6	100.0
-	Spain	74.1	85.0
Europe	United Kingdom	71.0	63.6
	Other European Countries	62.7	83.3
	Continent Total	61.4	81.4
	Egypt	50.0	100.0
Africa	Other African Countries	40.9	94.4
	Continent Total	44.1	96.7
	Australia	95.5	81.0
Oceania	Other Oceania Countries	85.7	83.3
	Continent Total	93.1	81.5
	Bangladesh	20.0	100.0
	China	72.0	88.9
Asia	India	58.0	86.3
	Japan	47.9	82.9
	Republic of Korea	88.0	90.9
	Philippines	32.9	81.5
	Turkey	56.1	87.0
	Other Asian Countries	64.8	87.2
	Continent Total	54.9	86.5

^Most common practice settings were selected at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Participating in telemedicine is most common among practicing urologists in China (66.7%), Australia (40.9%), the Dominican Republic (40.0%) and Canada (39.5%), and least common among practicing urologists in the Republic of Korea (4.2%), Chile (11.1%), Japan (12.0%) and the Philippines (12.2%), as shown in Table 19.

TABLE 19 Telemedicine Participation

Continent/Country		Percentage of Urologists Who Participate in a Telemedicine Program (%)	
United States		11.7	
Non-U.S. Countries		20.9	
North America	Canada Dominican Republic Mexico Other North American Countries Continent Total ^	39.5 40.0 21.2 11.5 25.5	
South America	Argentina Bolivia Brazil Chile Colombia Peru Other South American Countries Continent Total	18.5 20.0 16.4 11.1 18.4 29.3 32.3 18.7	
Europe	Germany Italy Spain United Kingdom Other European Countries Continent Total	13.6 14.6 17.9 19.4 19.4 17.6	
Africa	Egypt Other African Countries Continent Total	13.6 28.9 23.9	
Oceania	Australia Other Oceania Countries Continent Total	40.9 42.9 41.4	
Asia	Bangladesh China India Japan Republic of Korea Philippines Turkey Other Asian Countries Continent Total	15.8 66.7 33.0 12.0 4.2 12.2 19.4 18.1 20.8	

APercentages were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Table 20 shows opioids were prescribed for patients undergoing surgical procedures the most among practicing urologists in the United States (89.4%), Canada (79.0%) and Bangladesh (77.8%) versus the least in the Philippines (29.1%), Peru (30.8%) and Mexico (33.9%). Also seen in Table 20, practicing urologists in the countries where opioids were prescribed the most are more likely to report they have reduced the number of opioid prescriptions for patients undergoing surgical procedures compared to three years ago.

TABLE 20

Current Level and Trend of Opioid Prescription for Surgical Procedures

Continent/Country United States		Percentage of Urologists Prescribing Opioid		
		Prescribe Opioids for Patients Undergoing Surgical Procedures (%)	Reduce the Number of Opioid Prescriptions for Surgical Procedures (%)	
		89.4	72.3	
Non-U.S. Countries		54.3	31.2	
	Canada Dominican Republic Mexico	79.0 45.9 33.9	54.7 31.3 27.0	
North America	Other North American Countries	53.9 53.0 51.6	36.4 41.0	
	Argentina Bolivia Brazil	56.1 47.4 65.0	23.5 28.6 33.9	
South America	Chile Colombia Peru Other South American Countries	46.2 53.1 30.8 35.5	25.0 19.2 16.7 54.5	
Europe	Continent TotalGermanyItalySpainUnited KingdomOther European CountriesContinent Total	56.7 72.7 46.9 66.7 61.3 49.3 55.6	30.2 17.2 26.1 31.3 16.7 32.3 26.4	
Africa	Egypt Other African Countries Continent Total	44.0 65.0 56.9	45.5 20.0 27.8	
Oceania	Australia Other Oceania Countries Continent Total	72.7 57.1 69.0	50.0 25.0 47.4	
Asia	Bangladesh China India Japan Republic of Korea	77.8 66.7 41.4 48.2 52.0	42.9 11.8 34.3 10.3 8.3	
	Philippines Turkey Other Asian Countries Continent Total	29.1 50.0 66.0 51.5	13.0 29.4 40.7 28.2	

^Most common practice settings were selected at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

The percentage of practicing urologists who have enough funding to attend in-person meetings for face-to-face interaction with other urologists or to obtain needed continued medical education are higher in Australia (90.9%/90.9%), the Philippines (88.6%/85.4%), the Dominican Republic (87.2%/89.5%) and the United States (75.8%/82.4%) and low in Egypt (41.7%/38.1%), Turkey (44.7%/44.7%) and Colombia (44.7%/45.8%) as shown in Table 21.

TABLE 21

Does Your Practice Provide Enough Financial Support for You to Gain In-Person Interaction with Other Urologists or Obtain Needed CME?

	Attend In-person Meetings for Face-to-face Interaction with Other Urologists (%) 75.5	Obtain Needed Continued Medical Education (%)	
	75 5		
	75.5	82.4	
	64.7	65.3	
anada	52.6	56.3	
ominican Republic	87.2	89.5	
1exico	75.2	75.4	
ther North American Countries	57.7	64.0	
ontinent Total^	66.7	69.3	
rgentina	59.1	59.1	
olivia	61.1	55.0	
razil	70.2	72.1	
hile	48.0	33.3	
olombia	44.7	45.8	
eru	73.0	70.7	
other South American Countries	83.9	76.7	
ontinent Total	65.2	64.7	
iermany	73.2	70.5	
aly	47.8	56.3	
pain	48.1	42.3	
Inited Kingdom	46.4	55.2	
other European Countries	63.1	62.9	
ontinent Total	58.8	60.2	
gypt	41.7	38.1	
other African Countries	47.5	40.5	
ontinent Total	45.3	39.7	
ustralia	90.9	90.9	
other Oceania Countries	100.0	100.0	
ontinent Total	93.1	93.1	
angladesh	64.7	68.4	
hina	79.2	88.0	
ndia	75.3	74.7	
apan	52.9	51.6	
epublic of Korea	54.5	68.4	
hilippines	88.6	85.4	
urkey	44.7	44.7	
other Asian Countries	63.2	64.3	
ontinent Total	67.1	68.1	
	lexico ther North American Countries ontinent Total^ rgentina olivia razil razil hile olombia eru ther South American Countries ontinent Total ermany aly coain nited Kingdom ther European Countries ontinent Total gypt ther African Countries ontinent Total ustralia ther Oceania Countries ontinent Total angladesh hina adia apan epublic of Korea hilippines urkey ther Asian Countries	anada 52.6 ominican Republic 87.2 lexico 75.2 ther North American Countries 57.7 ontinent Total^ 66.7 rgentina 59.1 olivia 61.1 razil 70.2 hile 48.0 olombia 44.7 eru 73.0 eru 73.0 ther South American Countries 83.9 ontinent Total 65.2 ermany 73.2 aly 47.8 opain 48.1 nited Kingdom 46.4 opypt 41.7 ther African Countries 63.1 optinent Total 58.8 opypt 41.7 ther African Countries 100.0 ontinent Total 90.9 ustralia 90.9 ustralia 64.7 oppan 52.9 epublic of Korea 54.5 hilippines 88.6 urke	

^Most common practice settings were selected at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Table 22 shows practicing urologists who are more likely to have enough time to keep up with changes in the field of urology by reading scientific papers or journals in China (92.9%), the Dominican Republic (92.7%), Republic of Korea (92.3%) and Egypt (92.0%); through attending in-person scientific meetings in Bangladesh and Australia (100%), the Philippines (96.3%) and Egypt (96.0%); through attending webinars in China (75.0%), the Dominican Republic (73.2%), the Republic of Korea (65.4%) and Bolivia (65.0%).

TABLE 22

Percentage of Urologists Who Have Enough Time to Keep Up with Changes in the Field of Urology (Scientific Papers or Journals, In-Person Meetings, Webinars)

Continent/Country United States		Percentage of Urologists			
		Read Scientific Papers or Journals (%)	Attend In-person Scientific Meetings (%)	Attend Webinars (%)	
		81.7	82.7	64.3	
Non-U.S. Countries		85.3	86.6	50.9	
	Canada	84.3	85.5	57.8	
	Dominican Republic	92.7	92.7	73.2	
North America	Mexico	89.9	84.0	58.0	
	Other North American Countries	86.4	90.9	38.6	
	Continent Total^	88.0	87.3	54.5	
	Argentina	91.3	90.5	42.1	
	Bolivia	90.0	80.0	65.0	
	Brazil	87.2	89.4	49.6	
	Chile	74.1	88.9	37.0	
South America	Colombia	74.0	92.0	44.0	
	Peru	78.0	87.8	46.3	
	Other South American Countries	96.8	90.3	48.4	
	Continent Total	86.3	89.4	47.2	
	Germany	69.6	84.8	26.1	
	Italy	91.8	87.8	51.0	
_	Spain	75.0	71.4	57.1	
Europe	United Kingdom	71.0	77.4	29.0	
	Other European Countries	87.2	80.9	51.1	
	Continent Total	82.4	81.4	45.4	
	Egypt	92.0	96.0	44.0	
Africa	Other African Countries	89.1	87.0	56.5	
	Continent Total	90.1	90.1	52.1	
	Australia	81.8	100.0	59.1	
Oceania	Other Oceania Countries	100.0	100.0	71.4	
	Continent Total	86.2	100.0	62.1	
	Bangladesh	85.0	100.0	60.0	
Asia	China	92.9	85.7	75.0	
	India	80.9	85.4	52.8	
	Japan	71.4	70.2	56.0	
	Republic of Korea	92.3	92.3	65.4	
	Philippines	90.2	96.3	56.1	
	Turkey	85.4	73.2	61.0	
	Other Asian Countries	84.1	85.4	47.0	
	Continent Total	83.5	84.6	54.9	

^Percentages and numbers were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2017 AUA Annual Census - Percentages from unweighted samples from the 2017 AUA Annual Census for countries outside the U.S. were reported. No report on the U.S. urologists was made because this question was not asked in the same year.)

TABLE 22 (Continued)

Percentage of Urologists Who Have Enough Time to Keep Up with Changes in the Field of Urology (Videos or Podcasts, Live CME Classes, Online Learning)

Continent/Country United States		Percentage of Urologists			
		Watch Videos or Podcasts (%)	Attend Live CME Classes (%)	Attend Online Learning (%)	
		74.8	72.9	76.2	
Non-U.S. Countries		72.0	48.4	63.9	
	Canada	56.6	49.4	67.5	
	Dominican Republic	87.8	61.0	82.9	
North America	Mexico	77.3	48.7	78.2	
	Other North American Countries	67.0	46.6	63.6	
	Continent Total^	70.5	50.0	71.9	
	Argentina	73.0	31.7	65.9	
	Bolivia	90.0	55.0	75.0	
	Brazil	75.2	35.1	64.9	
Courth Association	Chile	55.6	22.2	48.1	
South America	Colombia	60.0	28.0	56.0	
	Peru	78.0	51.2	70.7	
	Other South American Countries	87.1	45.2	67.7	
	Continent Total	74.0	35.4	64.6	
	Germany	47.8	54.3	56.5	
	Italy	67.3	49.0	57.1	
_	Spain	60.7	35.7	53.6	
Europe	United Kingdom	41.9	54.8	54.8	
	Other European Countries	70.2	53.2	63.8	
	Continent Total	62.4	51.2	59.7	
	Egypt	84.0	48.0	56.0	
Africa	Other African Countries	82.6	52.2	58.7	
	Continent Total	83.1	50.7	57.7	
	Australia	77.3	77.3	72.7	
Oceania	Other Oceania Countries	71.4	71.4	57.1	
	Continent Total	75.9	75.9	69.0	
	Bangladesh	85.0	80.0	85.0	
Asia	China	89.3	64.3	89.3	
	India	74.2	67.4	51.7	
	Japan	57.1	33.3	51.2	
	Republic of Korea	80.8	50.0	65.4	
	Philippines	78.0	76.8	68.3	
	Turkey	82.9	36.6	51.2	
	Other Asian Countries	75.5	60.3	61.6	
	Continent Total	74.7	58.3	61.0	

APercentages and numbers were calculated at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Percentages from unweighted samples from the 2017 AUA Annual Census for countries outside the U.S. were reported. No report on the U.S. urologists was made because this question was not asked in the same year.)

Practicing urologists who take the most prolonged vacation leave reside in the United Kingdom and Australia (6 weeks), followed by Canada and Germany (5 weeks) and the shortest vacation leave occurs in China, Japan and the Republic of Korea (2 weeks) as shown in Table 23. The percentages of practicing urologists who are satisfied with their work-life balance are the highest in the Dominican Republic (97.6%), the Philippines (93.9%), Italy (85.4%), Peru (85.0%) and Bolivia (85.0%). No correlation between the amount of vacation leave and satisfaction with the work-life balance of practicing urologists was found.

TABLE 23

Vacation Leave and Work-Life Balance

Continent/Country		Median Number of Weeks of Vacation Leave	Percent of Urologists Who Are Satisfied with Their Work-Life Balance (%)
United States		4	53.8
Non-U.S. Countries		4	73.3
	Canada	5	55.1
	Dominican Republic	3	97.6
North America	Mexico	4	81.5
	Other North American Countries	4	75.0
	Continent Total^	4	75.5
	Argentina	4	84.1
	Bolivia	3	85.0
	Brazil	4	79.4
Courth Annual co	Chile	4	76.9
South America	Colombia	4	78.0
	Peru	4	85.0
	Other South American Countries	4	96.8
	Continent Total	4	81.7
	Germany	5	54.5
	Italy	4	85.4
_	Spain	4	84.6
Europe	United Kingdom	6	48.4
	Other European Countries	5	63.6
	Continent Total	5	66.1
	Egypt	4	66.7
Africa	Other African Countries	4	71.7
	Continent Total	4	70.0
	Australia	6	72.7
Oceania	Other Oceania Countries	8	85.7
	Continent Total	6	75.9
	Bangladesh	4	72.2
Asia	China	2	50.0
	India	4	69.7
	Japan	2	47.6
	Republic of Korea	2	65.4
	Philippines	4	93.9
	Turkey	4	55.0
	Other Asian Countries	4	66.9
	Continent Total	3	66.8
		a a second s	

^Percentages and median numbers were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

As shown in Figure 24, the median planned retirement age for practicing urologists in almost all reported countries falls between 65 and 70. The only exception is China, where urologists planned to retire at the age of 63.

Continent/Country		Median Planned Retirement Age	
United States		68	
Non-U.S. Countrie	s	69	
	Canada	65	
	Dominican Republic	65	
North America	Mexico	68	
	Other North American Countries	68	
	Continent Total [^]	66	
	Argentina	70	
	Bolivia	65	
	Brazil	70	
South America	Chile	70	
South America	Colombia	65	
	Peru	70	
	Other South American Countries	70	
	Continent Total	70	
	Germany	67	
	Italy	70	
F	Spain	70	
Europe	United Kingdom	67	
	Other European Countries	67	
	Continent Total	67	
	Egypt	66	
Africa	Other African Countries	65	
	Continent Total	65	
	Australia	67	
Oceania	Other Oceania Countries	70	
	Continent Total	68	
	Bangladesh	65	
	China	63	
	India	70	
	Japan	70	
Asia	Republic of Korea	65	
	Philippines	67	
	Turkey	68	
	Other Asian Countries	69	
	Continent Total	67	

TABLE 24 Median Age at Planned Full Retirement from Practice

^Median ages were calculated at both country and continent levels using the samples within the jurisdiction.

(Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Enjoying practicing and wanting to keep working are the two top reasons leading to late retirement among all urologists across the globe, as shown in Table 25. Economic pressure was considered the third top reason leading to late retirement in most countries except Argentina, Spain and China, where it was listed as the second top reason for late retirement.

TABLE 25

Top Three Reasons Leading to Late Retirement

Continent/Country		Top Reason Leading to Late Retirement			
		Most Common	2 nd Most Common	3 rd Most Common	
United States		Enjoy practicing	Want to keep working	Economic pressure	
Non-U.S. Countries		Enjoy practicing	Want to keep working	Economic pressure	
	Canada	Enjoy practicing	Want to keep working	Economic pressure	
	Dominican Republic	Enjoy practicing	Want to keep working	Economic pressure	
North America	Mexico	Enjoy practicing	Want to keep working	Economic pressure	
	Other North American Countries	Enjoy practicing	Want to keep working	Economic pressure	
	Continent Total^	Enjoy practicing	Want to keep working	Economic pressure	
	Argentina	Enjoy practicing	Economic pressure	Want to keep working	
	Bolivia	Enjoy practicing	Want to keep working	Economic pressure	
	Brazil	Enjoy practicing	Want to keep working	Economic pressure	
South America	Chile	Enjoy practicing	Want to keep working	Economic pressure	
	Colombia	Enjoy practicing	Want to keep working	Economic pressure	
	Peru	Enjoy practicing/Want to keep working Economic pressur			
	Other South American Countries	Enjoy practicing	Want to keep working	Economic pressure	
	Continent Total	Enjoy practicing	Want to keep working	Economic pressure	
Europe	Germany	Enjoy practicing	Want to keep working	Economic pressure	
	Italy	Enjoy practicing	Want to keep working	Economic pressure	
	Spain	Enjoy practicing	Economic pressure	Want to keep working	
	United Kingdom	Enjoy practicing	Want to keep working	Economic pressure	
	Other European Countries	Enjoy practicing	Want to keep working	Economic pressure	
	Continent Total	Enjoy practicing	Want to keep working	Economic pressure	

(Continued on page 40.)

TABLE 25 Top Three Reasons Leading to Late Retirement (Continued)

Continent/Country		Top Reason Leading to Late Retirement			
continent/country			2 nd Most Common	3 rd Most Common	
	Egypt	Enjoy practicing	Want to keep working	Economic pressure	
Africa	Other African Countries	Enjoy practicing	Want to keep working	Economic pressure	
	Continent Total	Enjoy practicing	Want to keep working	Economic pressure	
	Australia	Enjoy pr	acticing	Want to keep working	
Oceania	Other Oceania Countries	Enjoy practicing	Want to keep working	Economic pressure	
	Continent Total	Enjoy practicing	Want to keep working	Economic pressure	
	Bangladesh	Want to keep working	Enjoy practicing	Inability to recruit a replacement	
	China	Enjoy practicing	Economic pressure	Want to keep working	
	India	Enjoy practicing	Want to keep working	Economic pressure	
	Japan	Enjoy practicing/Want to keep working		Economic pressure	
Asia	Republic of Korea	Enjoy practicing	Want to keep working	Economic pressure	
	Philippines	Enjoy practicing	Want to keep working	Economic pressure	
	Turkey	Enjoy practicing	Want to keep working	Economic pressure	
	Other Asian Countries	Enjoy practicing	Want to keep working	Economic pressure	
	Continent Total	Enjoy practicing	Want to keep working	Economic pressure	

A Top reasons were determined at both country and continent levels using the samples within the jurisdiction. (Data source: The 2018 AUA Annual Census - Reported results are based on the weighted samples from the U.S. practicing urologists and unweighted samples from urologists in countries outside the U.S.)

Discussion

In this study, practicing urologists across the globe were compared at both the continent level and selected country level with regard to the key issues affecting the urologist workforce. Variations in workforce characteristics and practice patterns across countries and continents were observed.

Population growth and aging, health care improvement, new therapeutic possibilities, and rising expectations of health care cost-effectiveness present prominently among several critical challenges facing the health care workforce. These challenges have made the provision of health care much more complex than in the past. To address various challenges and meet global needs for urological care, one must understand urologists: their demographics, training, sub-specialization, practice setting, employment status, workload and productivity, adoption of new techniques, and adherence to clinical guidelines.

The results of the AUA Annual Census are subject to limitations. First, the United States is the only country with a national urologist master file with large samples available to be used in this study. As such, estimates were weighted to represent the U.S. practicing urologist population through the adjustment of non-response. In contrast, estimated values for other countries that were used in this study were based on samples because of the lack of country-specific urologist master files and; therefore, may not represent the true landscape of urologists in these countries. Second, sample sizes vary greatly from country to country, which may result in biases due to small sample sizes. Such variations also make it difficult to detect statistically significant differences among countries with low Census response counts, especially those with samples of 20 or fewer. Third, non-U.S. practicing urologists who connected with the AUA through membership, the Annual Meeting or other education activities may differ from practicing urologists in their home countries in many ways. Fourth, Census data were self-reported, non-validated, and subject to the usual survey biases and possible misrepresentation. Finally, the AUA Annual Census questionnaire was written in English only; thus, the results of this study may be subject to language barrier bias.

Urology is a well-established surgical specialty. However, information on the urology workforce across the globe is rarely available. The available studies published are limited in terms of the number of countries covered, and the scope of these studies is outdated and hard to compare internationally. Through a single questionnaire and a comparable analytical approach, findings from our study help characterize urologists across the globe on workforce demographics, training, practicing characteristics and roles, workload and productivity, the adoption of new techniques, the adherence to practice guidelines in clinical decision-making, and other aspects of clinical practice. Members of the urology community can use this report to understand urologists in their countries and compare their countries with the rest of the world. The knowledge gaps bridged will inform urology workforce planning and implementation and, ultimately, improve global urologic care.

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AUA International Membership Committee AUA Census Advisory Panel AUA Institutional Review Group AUA Data Committee AUA Workforce Work Group

PROJECT TEAM:

Raymond Fang, MSc, MASc – Data Director, Principal Investigator William Meeks, III, MA – Data Operations Manager, Survey Programming and Statistical Analysis John Murphy, MSc – Statistical Analyst, Statistical Analysis Roxann Nottingham – Communication and Outreach Coordinator, Coordination & Communication Keonna Feaster Confesor, MSc – Data Program Analyst, Analysis and Reporting

THE KEY STAFF COLLABORATORS: (IN ALPHABETICAL ORDER)

Lori Agbonkhese – Senior Manager, International Programs Patricia Banks – Vice President & Chief Marketing Officer Diane Bieri, JD – Vice President & General Counsel Christine Frey – Senior Manager, Corporate Communications Jessica Kessler – Coordinator, Marketing and Communications Kathleen Shanley, Ph.D. – Executive Vice President for Public Policy and Advocacy This page intentionally left blank.

AUA Statistical Services

AUA provides members with full statistical services:

- Study design
- Data collection
- Data analysis
- Data reporting
- Data presentation



American Urological Association Contact AUA at dataservices@auanet.org or visit AUAnet.org/Statistics