Overview of Fellowship Program

Program Name: Male Reproductive Medicine, Andrology and Robotic Microsurgery Fellowship at Avant Concierge Urology and University of Central Florida

Program Inception date: July 2012

Institution(s): Avant Concierge Urology & University of Central Florida

Fellowship Director: Sijo Parekattil, MD

Summary of the Program:

Clinical program: We see patients with chronic testicular/groin pain, male infertility, sexual dysfunction and/or testosterone deficiency syndrome. Our team includes 2 fellowship (Male Infertility & Microsurgery) trained urologists, and a research director (Ph.D. Statistics). We collaborate closely with REI specialists.

Research Program: We have a very active clinical research program with projects on clinical outcomes for various treatment modalities for male infertility and chronic testicular/groin pain and psychological impact studies. We have some novel projects involving new robotic microsurgical platforms and novel oxidative stress testing devices.

Fellowship Faculty:
- Sijo Parekattil, MD
- Alex Galante, M.D.
- Richard Mendelson, PhD

Number of Positions per Year: 1

Duration of Fellowship: 1 year fellowship: 90% clinical/10% research

Accreditation: RAMSES (The Robotic Assisted Microsurgical and Endoscopic Society)
**Andrology Program**

**Who to contact regarding the program:**
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**Overview of Fellowship Program / Description of Program:**

The Male Reproductive Medicine, Andrology and Robotic Microsurgery Fellowship will enable the fellow to acquire expertise in the management of reproductive and sexual health diseases in order to pursue leadership roles in clinical, teaching and research careers. Key components are:

- **Novel and comprehensive treatment and evaluation of patients (male and female) with chronic groin, testicular and pelvic pain:**
  - Targeted robotic micro-denervation of the spermatic cord
  - Targeted peri-spermatic cord cryoablation
  - Ilioinguinal and genitofemoral targeted cryoablation
  - Targeted peri-spermatic cord and peri-epididymal botox ablation
  - Ilioinguinal and genitofemoral targeted botox ablation
  - Robotic intra-abdominal targeted denervation of the spermatic cord

- **Comprehensive Male infertility workup and treatment options, including some novel treatment such as:**
  - Microsurgical Vasectomy Reversal
  - Microsurgical Vaso-epididymostomy for congenital anomalies of the epididymis
  - Microsurgical Varicocelectomy
  - Robotic Intra-abdominal vasal reconstruction for vasal obstruction from prior hernia repairs or prior elective intra-abdominal vasectomy
  - Micro-TESE
  - TUR Ejaculatory ducts with seminal vesicle pressure manometry
  - Ejaculatory duct endoscopy with micro-digital scopes

- **Comprehensive workup and treatment of Erectile dysfunction and Peyronie’s disease including:**
  - Penile implants

- **Web-based patient care delivery – over 60% of our patient volume is from outside the state, and 20% international. We provide care for these patients using novel web-based care protocols. We would provide training and education on cutting edge medical care models for the future to allow our fellows to develop web-based care models similar to ours.**
Andrology Program

**Fellowship Summary**
The clinical fellows have 90% clinical and 10% research / academic time. They are exposed to an average 10 surgical cases/week for 3-4 days/week. The fellows also may attend 1 clinic day/wk with an average of 30-40 patients/day. They are expected to attend national & international conferences. There is 1 day a week dedicated to research (optional) – this could also be used for OR surgical cases if the fellow wishes.

**Program Topic Weighting:**
Testicular Pain/Male Infertility/Sexual function/Andrology: 50%, 30%, 20%

**Program Structure:**

<table>
<thead>
<tr>
<th>Type of Experience</th>
<th>Weekly Structured</th>
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<tbody>
<tr>
<td>Surgery</td>
<td>3-4 days / week</td>
</tr>
<tr>
<td>Clinical Experience</td>
<td>1 day / week</td>
</tr>
<tr>
<td>Academics / research</td>
<td>1 day / week (optional – could be surgery if desired)</td>
</tr>
</tbody>
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**Unique qualities:**
One of the largest volume robotic microsurgical programs in the country (6-8 cases per week with 2 surgeons). Fellows will be exposed to microsurgical techniques. Novel new robotic microsurgical platforms and novel high magnification digital microscopic platforms will be available to the fellow.