On behalf of the Division of Urology, I would like to welcome you to the Urology service at the University of Pennsylvania Health System. We provide inpatient and outpatient services for the full range of urologic conditions covering the Hospital of the University of Pennsylvania, Penn Presbyterian Medical Center, Pennsylvania Hospital, the Veterans Affairs Medical Center of Philadelphia, and the Children’s Hospital of Philadelphia. Although in some centers the field of urology has evolved into a largely outpatient specialty, we still maintain busy inpatient services due to the types of surgery, complexity of patients and illness seen in a tertiary centers such as HUP.

While on the urology service, you will spend time in the operating room observing and participating in a wide variety of procedures. You will also likely spend time evaluating patients in the outpatient clinic setting and on the inpatient wards. As time permits, you may also choose to get involved in various research projects. In any of these endeavors, your primary responsibility while on the service is providing exemplary patient care.

Welcome – we are excited to get a chance to introduce you to our specialty. We look forward to having you join us for the rotation. If you have any questions or we can improve your experience in any way, please do not hesitate to let us know.

**General Information:**
The Urology faculty consists of the following:

**HUP**
- Alan J. Wein (Chairman) – Oncology, Neurourology
- Thomas J. Guzzo (Residency Program Director) – Oncology
- Keith Van Arsdalen – Oncology, Endourology, Infertility
- S. Bruce Malkowicz – Oncology
- Irwin S. Goldstein – General Urology
- Jay Bloch – General Urology
- George Drach – General Urology
- Jim O’Connell – General Urology

**PPMC**
- David I. Lee – Robotics
- William I. Jaffe – Voiding Dysfunction & Prosthetics
- Puneet Masson – Infertility & Andrology
- Joseph Harryhill – General Urology

**PAH**
- Victor Carpiniello – General Urology
- Ariana Smith – Female Reconstruction
- Phil Mucksavage – Endourology & Minimally Invasive Surgery
- R. Caleb Kovell – Male reconstruction & Prosthetics

**CHOP**
- Douglas Canning (Chairman)
- Stephen Zderic
- Thomas Kolon
- Aseem Shukla
- Arun Srinivasan
- Gregory Tasian
- Dana Weiss
- Christopher Long
- Mark Zaontz
Urology Rotation Educational Objectives:

It is important to all of us that you have a broad educational opportunity during your rotation in Urology. There is a core curriculum outlined below which represents the minimum educational objectives of the rotation. The pocket sized Clinical Manual of Urology textbook (edited and authored by the Penn Urology faculty) is provided to you as reference during your rotation. Please see Joy McCabe in the Urology office to obtain your copy. Her office is Room 3-333 (next door to the HUP residents’ office).

Weekly Conference Schedule:

The Urology division maintains a rich, didactic conference schedule. Whenever possible, you are encouraged to attend these conferences.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Conference</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>7-8AM</td>
<td>Case Management/Dries</td>
<td>Urology offices/Lunch Room (PCAM)</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-7AM</td>
<td>Robotic Conference</td>
<td>PPMC Uro Offices (3 MOB)</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:30-7:30AM</td>
<td>Resident Educ Conference</td>
<td>Urology Library/Conf Room (PCAM)***</td>
</tr>
<tr>
<td>Wednesday</td>
<td>5:30-6:30PM</td>
<td>Peds Radiology Conference</td>
<td>CHOP</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:30-7:30PM</td>
<td>Urology Grand Rounds</td>
<td>Urology Library/Conf Room (PCAM)***</td>
</tr>
<tr>
<td>Friday</td>
<td>6-7AM</td>
<td>Reconstruction Conference</td>
<td>PAH residents off (4 Cathcart)</td>
</tr>
</tbody>
</table>

*** = attendance required

Scheduled Didactics

You will have scheduled didactic teaching twice a week while you are on rotation. This will generally take place on Monday and Thursday afternoons from 3-5pm with Dr. Jim O’Connell at the urology offices on the 3rd floor of the PCAM.

You will also meet with me at the end of your rotation. If there are any particular topics in urology that you would like to review/discuss in more detail either during or after your rotation, just let me know and we will set up a time to meet.

Core Curriculum:

In addition to the weekly conferences and scheduled didactic sessions highlighted above, you will be expected to complete the National Medical Student Core Curriculum that has been developed by the American Urologic Association. This core curriculum is standardized for all medical students and includes lessons on benign prostatic hyperplasia (BPH), urinary tract infections (UTIs), prostate cancer, and other common urologic topics. The course subjects in the curriculum were selected after an extensive survey of medical stakeholders nationwide including residency directors in pediatrics, internal medicine, and family medicine among others. If you can review this before your rotation, this will help prepare you for many of the topics you will see over your time with us.

Using an online approach, the AUA’s core curriculum includes traditional lessons on urology, but also offers medical students innovative tutorials such as out of the classroom video courses and interactive Web case studies. There is also an online spaced education examination that you also can find on the AUA core curriculum website that you will be expected to complete. You can find the National Medical Student Core Curriculum on the AUA website at www.auanet.org/core.
General Educational Objectives:

Gain a broad exposure to the field of urology including general urology, urologic oncology, pediatric urology, stone disease, minimally invasive urologic surgery, male and female genitourinary reconstruction, prosthetics, infertility, andrology, and neurourology.

Understand the evaluation, diagnosis, and management of patients with common urological conditions such as urologic cancers (prostate, bladder, kidney, testicular), nephrolithiasis, hematuria, erectile dysfunction, urinary tract obstruction, voiding dysfunction, and urinary incontinence.

Understand the evaluation and management of acute urologic emergencies including genitourinary trauma.

Understand the perioperative management of urologic patients including fluid and electrolytes, analgesics, antibiotics, and drainage catheters including Foley catheters.

Understand the routine post-operative management of the urologic patient as well as gain an appreciation for the recognition and management of potential complications unique to the urology patient such as genitourinary anastomotic leaks, urosepsis, etc.

Gain experience in placement and management of Foley catheters.

Acquire a general understanding of principles of urinary tract surgery including relevant anatomy, antiseptic considerations, placement and management of surgical drains, wound care, etc.

General Expectations:

As a busy surgical service, we certainly value timeliness, dedication to patient care, and hard work. As with any other rotation, the more you put in, the more you will get out of it. Whether you are considering a career in a surgical field or not, spending time on a surgical service is an important part of a well-rounded medical education. Either way, we look forward to teaching you something about what we do and how we approach challenging problems.

You will be expected to function at a very high level of efficiency during your rotation. We expect that you have prepared for the cases or clinics that you will be a part of each day. Please spend some time looking up the cases you will be involved with in advance and prepare for questions related to the anatomy, disease specific pathophysiology, surgical process, etc. associated with those patients and procedures. We do not expect that you will be an expert on any topic or surgical skill. That said, having a general understanding of the disease processes that you will see and the procedures that you will participate in allows us review topics in more depth and teach you more.

There is a premium on interpersonal skills such as respect for and cooperation with faculty, housestaff, ancillary personnel (NP/PAs, nursing, office staff) and other departments within the hospital. Above all else, you will be expected to provide outstanding care and service to our patients and their families.
**Miscellaneous Information:**

The Urology academic offices, HUP residents’ office, library, and outpatient clinic area are located on the 3rd floor in the Perelman Center for Advanced Medicine (PCAM) West. Your ID badge will give you access to these areas.

You will be provided with a list of resident contacts for each hospital where you will spend time during your rotation. Please check with them each day to set up a time and place to arrive as well as expectations for your responsibilities on that particular day.

In general, you are not expected to take overnight or weekend call on the rotation. You will have a minimum of 1 in 7 days completely without clinical responsibilities. Your Fridays will be free of any clinical responsibility as this will be dedicated didactic time.

As this is a short rotation (8 clinical days), attendance is mandatory. Special requests for time off should be discussed with me as far in advance as possible. Please try to schedule non-mandatory academic meetings outside of your clinical duty hours. If you are sick enough to need to call out sick, please provide a physician’s note for our reference. If you miss one day, you will be expected to complete a project and presentation to make up for the time missed. If you miss more than one day, you will be expected to either make up the clinical time at a later date or reschedule the rotation as per the guidelines of the general surgery rotation.

Any grievances, questions, concerns, issues or problems that arise during your rotation should be addressed directly with me. My door is always open and you can contact me any time; night or day.

It is my expectation that you will find your time on the urology service both educational and productive. Please review this entire document and if you have any questions regarding this or any other aspect of your rotation on urology, please do not hesitate to let me know.

Warm regards,

R. Caleb Kovell, MD
Assistant Professor of Urology
Department of Surgery, Division of Urology
Director, Urology Medical Student Education
University of Pennsylvania Health System
Penn Medicine at Washington Square
800 Walnut Street, 19th Floor
Philadelphia, PA 19107
Email: robert.kovell@uphs.upenn.edu
Office Phone: (215) 454-3254
Cell Phone: (215) 519-4865
**Critical Criteria For Passing Urology 200 Rotation**

1. Understand the work-up and evaluation of basic urologic problems including hematuria, BPH, stone disease, etc.
2. Obtain proficiency in basic urologic procedures such as foley catheter placement.
3. Demonstrate a general knowledge of common urologic procedures such as prostatectomy, stone removal, circumcision, etc.
## WEEK 1

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrubs</td>
<td>Scrubs</td>
<td>Dress Clothes</td>
<td>Dress clothes</td>
<td>Dress Clothes</td>
</tr>
<tr>
<td>7am: HUP Urology Morning Conference PCAM 3 West</td>
<td>7am-6pm PPMC OR – Voiding Dys/Recon (Jaffe) OR</td>
<td>630am Urology Residents Ed Conf. (3PCAM West, Urol Lib)</td>
<td>6:30-8am Urology Grand Rounds (3PCAM West, Urol Lib)</td>
<td>6-7am: Urologic Reconstructive Conf (PAH 4 cathcart)</td>
</tr>
<tr>
<td>7am-3pm: PPMC OR – Robotics cases (Lee) &amp; surgical simulation</td>
<td>7am-6pm PAH OR – Female Recon (Smith)</td>
<td>8am-6pm: HUP OR Robotics (Guzzo) &amp; Oncology (Malkowicz)</td>
<td>8am-3pm: PPMC OR – Infertility/Andrology (Masson) OR</td>
<td>7:30-11:30am: Clinic (Kovell – PMWS 19th Fl)</td>
</tr>
<tr>
<td>3-5pm Didactics (O’Connell) – 3PCAM</td>
<td>3-5pm Didactics (O’Connell) – 3PCAM</td>
<td>3-5pm Didactics (O’Connell) – 3PCAM</td>
<td>3-5pm Didactics (O’Connell) – 3PCAM</td>
<td>12-5pm: Mandatory Didactics</td>
</tr>
</tbody>
</table>

### WEEK 2

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrubs</td>
<td>Scrubs</td>
<td>Scrubs</td>
<td>Dress clothes</td>
<td>Scrubs</td>
</tr>
<tr>
<td>7am: HUP Urology Morning Conference PCAM 3 West</td>
<td>7am-6pm: VAMC OR – Onc &amp; Endo (Van Arsdalen) and Recon (Kovell) OR</td>
<td>630am: Urology Residents Ed Conf. (3PCAM West, Urol Lib)</td>
<td>6:30-8am Urology Grand Rounds (3PCAM West, Urol Lib)</td>
<td>7-12am: HUP OR Endoscopy &amp; Stones (Van Arsdalen)</td>
</tr>
<tr>
<td>7am-3pm: HUP OR – Oncology (Wein &amp; Guzzo)</td>
<td>7am-6pm: HUP OR Oncology (Wein &amp; Guzzo)</td>
<td>8am-5pm: CHOP OR 5-6:30pm: CHOP Radiology Conference</td>
<td>8:30a-3pm: PAH OR – Endo (Mucksavage) &amp; Recon (Kovell) Cases</td>
<td>12-5pm Mandatory Didactics</td>
</tr>
<tr>
<td>3-5pm: Didactics (O’Connell) – 3PCAM</td>
<td>3-5pm Didactics (O’Connell) – 3PCAM</td>
<td></td>
<td>3-5pm Didactics (O’Connell) – 3PCAM</td>
<td></td>
</tr>
</tbody>
</table>

---

**Critical Criteria For Passing Urology 200 Rotation**

1. Understand the work-up and evaluation of basic urologic problems including hematuria, BPH, stone disease, etc.
2. Obtain proficiency in basic urologic procedures such as foley catheter placement.
3. Demonstrate a general knowledge of common urologic procedures such as prostatectomy, stone removal, circumcision, etc.