

Orientation to Service

Urology encompasses the full gamut of peri-operative and intra-operative care of veterans admitted to our service. This service focuses on the full spectrum of urologic surgery with emphasis on benign and malignant conditions of the prostate, bladder and kidneys, as well as stone disease and urinary tract infections.

A. COMPOSITION OF UROLOGY:

1. The Urology Service comprises of a chief resident (PGY 5), junior resident (PGY 3), and an intern (PGY 1). The service will also have various physician assistants assigned to the team. Two permanent midlevel practitioners (physician assistant or nurse practitioner) are also assigned to the team to assist with day-to-day assessment of inpatients and assist in maintenance of system-based practice. Residents are supervised by the faculty members assigned to Urology.
2. Residents are responsible for the day-to-day care of all Urology surgery patients under supervision of the faculty. Residents communicate directly with the individual immediately senior to them on all admissions, consultations, and significant changes in the condition of all inpatients and outpatients. Monday through Thursday, residents should communicate directly with the attending responsible for each patient. On weekends, problems are addressed with the on-call faculty member.

B. ROLES AND RESPONSIBILITIES OF EACH TEAM MEMBER:

3. Interns are responsible for call of the ward patients and are the first responder to urgent patient needs. They are to inform the junior and chief residents of changes in the condition of patients. They are responsible for signing out all patients on the service for whom they have responsibility to the intern cross-covering for that evening by 6 p.m., Monday through Friday and before noon on Saturdays and Sundays. They must also sign out to the junior before leaving for home post-call. When leaving post-call, interns must set their pager to an out-of-hospital or forwarded status.

Curriculum/Education Goals and Objectives

Educational Goals for Residents:

Intern

Medical Knowledge

- Understand renal physiology and its relationship to post-obstructive diuresis
- Understand the principles and types of urinary tract catheterization

- Understand the various types of urinary diversion and the indications for their use
- Understand the use of drains and stents in Urology
- Understand the pathophysiology of BPH and the medical and surgical treatment options
- Understand the use of PSA in benign and malignant conditions of the prostate
- Have a basic understanding of prostate cancer, including diagnostic aids and the treatment of localized and advanced disease
- Have a basic understanding of the manifestations of bladder cancer and the treatment options for low-grade, superficial disease, as well as muscle-invasive bladder cancer
- Have a basic understanding of the pathophysiology, medical and surgical treatment options for urinary stone disease

Patient Care

- Develop an understanding for fluid shifts and electrolyte changes peculiar to urologic patients
- Understand the nuances of urinary diversions, stents, catheters and drains in urologic surgery
- Counsel and educate patients and their families
- Have an awareness for the multitude of co-morbid conditions encountered in many veterans and become knowledgeable in their management

Professionalism

- Learn to communicate effectively and compassionately with patients, families, team members and staff
- Learn to efficiently sign-out patients to other teams
- Be sensitive to patients in their social and cultural context
- Learn to practice the ethical principles involved with caring for the surgical population, including consent ability, confidentiality and informed consent

Interpersonal and Communication Skills

- Respectfully interact with patients, staff and families
- Learn to listen and assess non-verbal cues from patients and staff
- Work effectively with the team, communicating issues appropriately and succinctly

Practice-Based Learning

- Accept responsibility for the care of patients on the ward, learning and modifying practice management style
- Apply knowledge of scientific data to the care of the urologic patient
- Facilitate the learning of medical students and physician assistant students on the team
- Use the library to access medical information and review recent advances in care

Systems-Based Practice

- Develop systems to help maintain consistent quality of patient care
- Learn to practice cost-effective health care without sacrificing quality of care
- Assist patients to negotiate the medical system in a consistent and fair manner

Educational Objectives for Residents:

Intern

Medical Knowledge:

- Define hematuria and describe the appropriate evaluation of gross and microscopic hematuria
- Describe the evaluation and treatment of urinary tract infections in men and women, including pyelonephritis, cystitis, prostatitis, and epididymis
- Describe the medical evaluation and treatment of patients with urolithiasis
- Describe the options for treatment of urinary tract calculi and the indications for shock wave lithotripsy, ureteroscopy with holmium laser ablation and percutaneous nephrostolithotomy
- Describe the appropriate use of PSA testing in men with benign and malignant disease of the prostate
- Give a synopsis of the evaluation and treatment of BPH
- Describe the evaluation and treatment options for men with localized and metastatic prostate cancer
- Describe the treatment options for renal cell carcinoma
- Describe the treatment options for transitional cell carcinoma of the bladder and upper urinary tracts

Patient Care:

- Describe the management of post-obstructive diuresis
- Discuss the principles of catheter and drain management in urologic patients
- Discuss the various types of urinary diversions and the complications of each
- Discuss the options for prophylaxis of the pulmonary embolism in the urologic patient

Professionalism:

- Attend Urology Grand Rounds, Urologic Oncology Conference, Morbidity and Mortality Conference and Monday morning conference

Interpersonal and Communication Skills:

- Demonstrate discharge instructions and advice
- Participate in post-operative discussions with family

Practice-Based Learning:

- Evaluate an article in the Urologic literature pertaining to patient care issues

Systems-Based Practice:

- Review and recommend updates to current practice guidelines

Assigned Reading:

From: Campbell's Urology 8th Ed.

Be prepared to discuss or be tested in detail on these topics.

Intern (4 week rotation)

- Chapter 6: Renal Physiology and Pathophysiology. Pages 169-230
- Chapter 14: Infections of The Urinary Tract. Pages 516-592
- Chapter 38: Etiology, Pathophysiology, Epidemiology and Natural History of Benign Prostatic Hypertrophy. Pages 1297-1337
- Chapter 40: Minimally Invasive and Endoscopic Management of Benign Prostatic Hyperplasia. Pages 1379-1423
- Chapter 41: Retropubic and Suprapubic Open Prostatectomy. Pages 1423-1435.
- Chapter 75: Renal Tumors. Pages 2672- 2732
- Chapter 76: Urothelial Tumors of The Urinary Tract. Pages 2732-2871.
- Chapter 85: Epidemiology, Etiology and Prevention of Prostate Cancer. Pages 3003-3025.
- Chapter 90: Anatomic Radical Prostatectomy. Pages 3107-3131
- Chapter 97: Radiation Therapy for Prostate Cancer. Pages 3147- 3171
- Chapter 96: Urinary Lithiasis: Etiology, Diagnosis and Medical Management. Pages 3229-3306
- Chapter 99: Surgical Management of Urinary Lithiasis: Pages 3361-3384

Evaluative Method:

Clinical evaluation by staff using verinform system