

Resident Endocrinology Rotation Organization

2016 - 2017

Year 1: Research

The first year of the program is dedicated to research. Residents can be mentored by a number of research and clinical faculty with various areas of expertise including:

- urologic oncology
- voiding dysfunction
- sexual dysfunction
- infertility
- stone disease
- public health sciences
- physiology
- pharmacology
- molecular biology
- cell biology
- molecular genetics
- material sciences
- nanotechnology
- regenerative medicine

The research year gives residents exposure to both basic and clinical research, an opportunity that will serve them well regardless of their career track. Whether a physician chooses an academic or private practice opportunity, the ability to adequately assess emerging technologies and research methodologies is essential as the practice of medicine evolves.

Residents will:

- Become familiar with the development of a hypothesis-driven research plan.
- Develop competency with the design and execution of specific sets of experiments.
- Become competent in data analyses and interpretation.
- Develop competency in the recording, writing and reporting of specific sets of research results.

Year 2: Surgical Rotations

The second year of the program is dedicated to general surgery training in various clinical areas. The resident will have the opportunity to experience different surgical rotations that are valuable in providing specific surgical and patient-specific skill sets, including:

- vascular surgery
- plastic surgery
- transplant surgery
- general surgery

Residents will:

- Become familiar with the initial assessment of patients who may be considered surgical candidates.
- Become familiar with the preoperative assessment of surgical patients.
- Develop competency in the postoperative management of surgical patients.
- Develop competency in basic operative skills.

Years 3-6: Urology Clinical Rotations

The urology program at Wake Forest Baptist Medical Center is structured to provide an increasing level of experience throughout the years of clinical urology training.

Year 3: Adult Urology

Residents rotate on both of the two adult urology services at Wake Forest Baptist Medical Center. During these rotations, the resident is exposed to the complete spectrum of adult urologic practice both in terms of operative experience as well as in the evaluation and management of patients in the outpatient urology clinic.

All adult urology subspecialty areas are covered, including:

- oncology
- endourology
- andrology
- voiding dysfunction

Residents will:

- Become familiar with common urologic operative procedures and postoperative management of urologic patients.
- Develop competency with office-based diagnosis and treatment of common urologic conditions. This includes familiarity with urinalysis, urologic ultrasound, prostate biopsy, transrectal ultrasound prostate biopsy (TRUS-Bx), cystoscopy and urodynamics.
- Master urologic diagnostic procedures including cystoscopy, ureteroscopy, retrograde pyelography and stent placement.
- Develop a basic knowledge of the pathophysiology and diagnosis of urologic disease states.
- Become competent in the management of common outpatient urologic problems and urologic emergencies.
- Develop competency in basic urologic surgical procedures such as scrotal and testicular surgery as well as the endoscopic management of urologic disease including ureteroscopic treatment of stone disease.

Year 4: Pediatric Urology and Urology Subspecialties

In the first half of the year, the resident works one-on-one with the pediatric urology faculty, including outpatient evaluation and surgical management of pediatric urology disorders.

In the second half of the year, the resident rotates through the subspecialty clinics within the Department of Urology. During this outpatient clinic rotation, the resident works hand-in-hand with the urology faculty evaluating new patients presenting within all of the major subspecialty areas of urology. This rotation provides the broad framework necessary for the initial evaluation and management of the full spectrum of adult urologic problems.

Residents will:

- Develop competency in the evaluation and management of common pediatric urologic conditions and familiarity with common pediatric urologic procedures and postoperative care of pediatric patients.
- Develop additional competency in the endoscopic management of urologic disease including transurethral resection of the prostate (TURP).
- Demonstrate competency in extracorporeal shock wave lithotripsy (ESWL) and metabolic stone evaluation.
- Develop additional competency in open surgical procedures, demonstrating an ability to adapt basic surgical skills to a variety of urologic procedures with sound intraoperative decision-making.

Year 5: Pediatric Urology and Private Practice Rotation

The resident is again exposed at a higher level to pediatric urology and also spends half of this year on our affiliated private practice rotation at Moses Cone Health Care Systems assisting the attending urologists in the diagnosis and management of their patients. This rotation provides our residents with valuable exposure to the private practice of urology in addition to broadening the surgical experience.

Residents will:

- Demonstrate a mastery of routine adult and pediatric urologic diagnosis and treatment.
- Demonstrate a high level of competency in open and endoscopic surgery.
- Develop the independent medical and surgical judgment necessary to enter the chief residency year.
- Develop diagnostic and management expertise in the subspecialty areas of urologic oncology, neurourology and female urology.
- Demonstrate competency in the evaluation and treatment of male infertility.

Year 6: Chief Residency

The chief resident is in charge of the urology outpatient clinic and has supervision over all inpatient adult urologic patients on his or her service. This year is viewed as a time for the resident to develop leadership and administrative skills while fine-tuning surgical technique and mastering the management of complex urologic problems

Residents will:

- Demonstrate competency in complex urologic operative procedures such as radical cancer surgery, reconstructive urology and laparoscopy.
- Demonstrate the leadership ability, management skills and interpersonal skills to independently operate a busy urologic practice.
- Function as an effective teacher to more junior residents.