

Wake Forest Urology Residency Curriculum

Year 1: Research

The first year of the program is dedicated to research. Residents can be mentored by numerous 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. This year is completely protected with no clinical responsibilities.

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 and Urology Rotations

The second year of the program is dedicated to surgical training in various clinical areas. Residents will spend six months of this year rotating on urology and six months rotating on other core general surgery rotations. By experiencing these different surgical rotations, the residents will develop surgical skill sets, including:

- Becoming familiar with the initial assessment of patients who may be considered surgical candidates.
- Becoming familiar with the preoperative assessment of surgical patients.
- Competency in the postoperative management of surgical patients.
- 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 the two main adult urology services at Wake Forest Baptist Medical Center as well as the urology service at local Veterans Health Administration. During these rotations, the residents are 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, Female Pelvic Health, Community Urology, Consult Service

During this year the residents rotate through the subspecialties of pediatric urology and female pelvic health. They also spend time at one of our community hospitals to experience practice in a high-volume

private practice like setting. Residents also spend time on the consultation service learning the diagnosis and management of urologic emergencies.

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.
- Work with female pelvic health fellows and attendings in the diagnosis and management of female genitourinary issues.
- Experience operating in a high-volume surgical setting.
- Perform inpatient and intraoperative consultations for urologic emergencies.
- Continue to develop additional competency in open surgical procedures, demonstrating an ability to adapt

basic surgical skills to a variety of urologic procedures with sound intraoperative decisionmaking.

Year 5: Senior Residency, Elective Time, Transplant Surgery

During this year residents graduate from junior residents to senior residency. They return to the Veterans Health Administration to be the chief resident of the rotation and continue the community urology and female pelvic health rotations in a senior capacity. Residents also rotate with our transplant surgery colleagues to learn the nuances of renal transplant and perioperative management. Finally, residents are allotted two months of elective time where they can select rotations with both urological and non-urological services to expand their knowledge base in their areas of interest. Previous elective rotations have included:

- Medical Oncology
- Radiation Oncology
- Diagnostic Radiology
- Interventional Radiology
- Pediatric General Surgery
- Endocrinology

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.

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 all 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.