

Faculty Director:	Steven Canfield, MD, Melina McCarty, MD, and Lislly Chery, MD
Participating Faculty:	Faculty in the UT Division of Urology and Urology Department at MD Anderson Cancer Center
Location:	MHH, LBJ, and MDACC
Prerequisites:	None for MHH or LBJ; Third-Year Surgery Clerkship for MDACC
Streams Offered:	All streams
Max. # Students/3-week Period:	2

Course Objective

Material Covered:

This third-year elective will introduce students to the field of urology. Students will be exposed to all areas of urology and they will spend time learning about each of the following subspecialty areas: general urology, urologic oncology, reconstructive surgery, endourology, female urology, erectile dysfunction, and pediatric urology. Students will work closely with faculty and residents in the operating room, on the inpatient wards, and in the outpatient clinic. This elective is open to all 3rd-year medical students. It is designed to equip students with the skills necessary to mature into successful sub-I's and interns.

Site Specific Rotation Details:

Memorial Hermann: Exposure to all aspects of Urology, including pediatrics at Memorial Hermann Children’s Hospital and Neurourology / Spinal Cord Injury Urology at TIRR.

LBJ General Hospital: Exposure to all aspects of Urology with heavy exposure to oncology and endourology

MD Anderson Cancer Center: Students will gain firsthand exposure to patients with urologic malignancies such as bladder, prostate, and kidney cancer and they will participate in the complex surgical procedures required for these patients.

Didactic requirements differ based on the rotation site. At the Memorial Hermann and LBJ sites, students will attend didactic conferences on Thursday mornings at the UT Medical School and they will be encouraged to attend Thursday evening conferences at the Medical School from 5:30-6:30 pm. Students assigned to the MDACC site will have a dedicated teaching session with the site director on Mondays. In addition, they will be required to attend multidisciplinary case conference on Tuesday mornings and didactic conference on Wednesday mornings. There is no overnight or weekend call requirement for this elective. **There is an evidence-based medicine literature review and presentation requirement.** The attendings at each site will assist with the selection of a topic, an article and the appraisal as necessary.

Objectives:

By the end of this elective, the student will be able to:

- Conduct a focused history and physical examination on patients with urologic disorders
- Describe the work-up and management of common urologic conditions as well as urologic emergencies
- Perform basic surgical techniques (closure of skin incisions, one- and two-handed suture ties, etc.) as well as routine and moderately difficult urethral catheterizations in men and women
- Perform and describe the findings of a digital rectal exam
- Concisely and articulately deliver case presentations to attending physicians in the clinic and inpatient settings
- Create a PICO question, find a focused article, perform an appraisal, and summarize the findings

Activities Of Elective

Number Of New Patients/Student/Week: ~10/week (including outpatient)

Responsibilities Of Student For Assigned Patients:

Does history/physical:	Yes
Who critiques:	Attending and resident
Follows patients, with appropriate notes as needed:	Yes
Who supervises:	Attending and resident
Does student see ambulatory patients:	Yes

Procedures	Observe	Perform
Variety of urologic surgical procedures	All procedures	Minor procedures

Scheduled Duties of Student:

Frequency of rounds on patients	Daily
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	Presents patients to preceptor or attending physician	YES
	Weekly schedule of required teaching sessions	Yes (Location based, includes some Monday AM, Tuesday AM, Wednesday AM, Thursday AM)

Other Required Activities:

	Reading/review of current literature	Yes – literature review project – see specifics below.
	Presentation	Yes – patient presentations in clinic and on inpatient wards

All rotating students will be required to complete an evidence-based medicine literature review project.

Goal: Develop skill in applying the medical literature to patient care

Objectives:

1. Learn to search for medical literature to improve patient care
2. Practice writing a 4 part clinical PICO question
3. Find an article which appears to answer the PICO question
4. Appraise the article using an appraisal tool
5. Calculate and interpret RR, RRR, ARR, NNT if appropriate for the article chosen
6. Interpret Forest Plots in Meta- Analysis if appropriate for the article chosen
7. Summarize the exercise in a brief presentation to other learners

How Is Student Evaluated:

This elective is pass/fail. Students will be evaluated by faculty and residents based on their attendance and participation in didactic sessions and clinical assignments. The students are evaluated based on the demonstration of their accomplishment of the objectives.