U-2 (PGY-4) Resident Responsibilities, Goals and Objectives
In addition to the goals listed for PGY-1, PGY-2 and U-1, the U-2 resident will add to his/her knowledge base by continuing to participate actively in conferences, presenting at conferences and being called upon as a GU consultant to other services at all of the training sites. Rotations for 2008-2009 include Methodist (including cases at Methodist Specialty & Transplant), VA and Research/Elective. The U-2 year includes a major exposure to laparoscopic procedures and increasing exposure to more complex open procedures including transplantation. Some more advanced cases including robotic experience may be available as well. The research rotation (4 months) allows time to develop clinic or basic science projects. The rotation at the VA involves a substantial endoscopic surgery exposure.

**General Goals:**
Build upon the knowledge base from the previous surgery experience.
Develop further communication skills related to providing consultative services in the hospital and outpatient services.
Nurture and build upon the liaison with other members of the Urologic community and begin to establish a reputation as a professional.

**Objectives:**
Prepare 2 Urology grand rounds lectures on topics related to the individualized learning plan.
Prepare a clinical or basic science research project for presentation at the end of the academic year.
Present at the Pyelogram conference.
Actively participate in Journal club, M&M conference and Tumor board.
Complete self assessment and Individualized learning plan.
Complete peer, faculty and program evaluations to help improve the training program.
Maintain candidate membership in the AUA, South Central Section (AUA) and the Texas Urologic Society

**Mechanism of learning:** Reading, mentoring by upper level residents/faculty, conferences.

**Competency:** Medical Knowledge, Practice-based learning & Improvement, Professionalism, Interpersonal & Communication skills

**Documentation:** Global Resident Competency Rating Form, Observed Patient Encounter Rating Form, 360 Degree Rating Form, Conference rating forms, Conference attendance forms

**Urologic Education Specific Goals**
Further develop a mastery level understanding of the physiology and pathophysiology of the major urogenital systems.
Develop an understanding of renal transplantation
Develop an understanding of the health care system as it exists today
Become fluent in the concepts of medical coding.

**Objectives:**
Be able to describe and outline the detailed:
- Neuromuscular anatomy & function of the genitourinary system with respect to anatomy and voiding from birth to senility
- Neuromuscular anatomy and endocrine regulation of the male reproductive system including testicular function, libido, sexual activity and reproduction
- Physiology of the kidney & upper urinary tract along with the pathophysiology associated with obstruction, stone disease and general comorbid conditions.
- Physiology of the adrenal gland and pathophysiology of associated tumors
Be able to discuss the physiologic basis underlying the evaluation of these systems including:

- Urodynamics, Videourodynamics
- Tests for evaluation of adrenal pathology
- Tests in the evaluation of hypogonadism, infertility, erectile dysfunction and ejaculatory disorders
- Tests for the evaluation of undescended testes and intersex disorders
- Tests for the metabolic evaluation of stone disease

Actively interpret and design treatment plans around these tests.

Be able to describe the evaluation and selection process for renal donors and recipients.

Be able to discuss the immunological basis of transplant rejection and the mechanisms to prevent rejection including immune system modification.

Be able to discuss the common complications of renal transplantation and their management.

Be able to describe the rationale around the current coding of diagnoses (ICD-9) and procedures (CPT) in urology.

Be able to describe the current state of medical care in the United States especially as it relates to provision of needed care to patients in the local practice. This should include a basic understanding of the various entitlement programs (Medicaid, Medicare, VAHCS), public assistance programs (Carelink) and private insurance (HMO, PPO, Other).

**Mechanism of learning:** Reading, mentoring by upper level residents/faculty, conferences,

**Competency:** Medical Knowledge, Professionalism. System-based practice

**Documentation:** Global Resident Competency Rating Form, In-service examination scores, performance at conferences.

**Urology Clinical Competency Specific goals:**
Further develop confidence and leadership skills with the clinic team.
Further build on skills that prevent and manage post-operative complications
Further build on teaching skills to assist the more junior residents and students on the service.
Improve communication skills to accurately communicate with patients, their families and other health care professionals regarding patient care issues and treatment plans.
Improve evaluation, management and clinic procedure skills and efficiency.
Become familiar with the nuances of urologic problems in spinal cord patients
Develop a better understanding of more complex urologic problems

**Objectives:**
Appropriately request and interpret postoperative tests/data on urology inpatients & ICU patients.
Develop detailed treatment plans independently.
Become fluent at discussing the rationale for the plans with a highly sophisticated (other staff, attendings, consultants) and less sophisticated (patient, family) group.
Become more efficient at assessment, diagnostic procedures and treatment planning.
Successfully manage a busy diagnostic clinic.
Integrate the basic knowledge of spinal cord injury states with urodynamic findings, and endoscope findings (as appropriate) to develop rational bladder management plans.
Confidently interpret history & clinical data and propose initial treatment/evaluation plans for:

- Complex stone disease
- Renal and bladder malignancies
- Prostate, testis and penile malignancies
- Complex voiding disorders

**Mechanism of learning:** Reading, Spinal cord injury handout, mentoring by upper level
Residents/faculty, conferences, on rotation experience.

**Competency:** Patient Care, Medical Knowledge, Interpersonal & Communication skills, Systems-based practice & improvement.

**Documentation:** Global Resident Competency Rating Form, Observed Patient Encounter Rating Form, 360 Degree Rating Form, Patient Evaluations, spot checks of clinic notes

**Emergent, Consultation & Inpatient Care Goals:**
Build on the knowledge base from the U-1 year.
Further develop confidence and leadership skills with the hospital team.
Further build on skills that prevent and manage post-operative complications.
Further build on teaching skills to assist the more junior residents and students on the service.
Improve communication skills to accurately communicate with patients, their families and other health care professionals regarding patient care issues and treatment plans.

**Objectives:**
Demonstrate efficient, accurate and timely evaluation and management plans for patients in the urgent, consultative and inpatient settings.
Demonstrate confidence and leadership skill necessary to run the hospital team.

**Mechanism of learning:** Reading, mentoring by upper level residents/faculty, conferences, clinical experience.

**Competency:** Medical Knowledge, Patient Care, Interpersonal & Communication skills, Professionalism

**Documentation:** Global Resident Competency Rating Form, Observation on rounds, Peer & Staff 360 Degree Rating Form, Patient evaluations.

**Urology Specific Surgical Skills Goals:**
Improve surgical skill level to allow completion of more complex cases both open and endoscopic.
Develop a full understanding of the safe use of all instrumentation in endoscopic surgery.

**Objectives**
Demonstrate Surgical Skills including: understanding of anatomy; knowledge of indications, benefits and risks of various procedures; familiarity with instrumentation; safety, speed and accuracy in operative performance; and lack of complications for the following (in addition to skills listed under PGY1 – PGY3):
- Simple prostatectomy
- Radical nephrectomy
- PCNL
- Transurethral resection of large bladder tumor
- TURP
- Laser prostatectomy procedures
- Endopyelotomy
- Bladder neck suspension/PV sling
- Ureteroscopy for upper tract tumor
- Ureteroscopy for complex stones
- End-to-end urethroplasty
- Urethrectomy
- Partial cystectomy/diverticulectomy
- Repair of bladder injury/rupture
- Vasography
Vaso-vasostomy/vasoepididmostomy
Bladder neck suspension
Cystocele repair
Male and female sling procedures
Rectocele repair
Enterocoele repair,
Vaginal and abdominal hysterectomy
Assist with transplant nephrectomy
Assist with renal transplantation

**Mechanism of learning:** Reading, mentoring by upper level residents/faculty, conferences, OR experience, Skills lab

**Competency:** Patient Care, Medical Knowledge, Interpersonal and Communication Skills, Practice-Based Learning, Surgical skills

**Documentation:** Attendance record of conferences, Global Resident Competency Rating Form, Operative evaluation forms, peer and staff 360 rating forms

**Research Goals:**
Develop an understanding of the complexity of clinical and basic science research
Develop understanding of statistical methods that are necessary to validate clinical research

**Objectives:**
Design and carry out a research project based upon a relevant clinical or basic science question in Urology
Analyze the data with current statistical methodology
Prepare and present the study at the annual resident research day in June.
Submit abstracts from the study to local, regional or national meetings
Prepare a publication quality document for submission.

**Mechanism of learning:** Reading, mentoring by faculty research advisor, conferences,

**Competency:** Medical Knowledge, Technical Skill, Practice-based learning, Professionalism

**Documentation:** Global Resident Competency Rating Form, Peer & staff 360 Degree Rating Form