



In the Name of God

Islamic Republic of Iran
Ministry of Health and Medical Education
Deputy Ministry for Education

Urology

Degree: Specialty

Introduction:

Urology has achieved dramatic progress not only in Western countries, but also in Islamic Republic of Iran in recent years. Rarely kidney and ureteral stones are managed with open surgery in our academic centers. We are currently prominent in the region in the field of kidney transplantation. We have already begun and are expanding laparoscopic training, which is used as a preferred approach in a number of diseases, such as adrenalectomy. Our specialists are actively involved in the management of infertility (ART) in all major cities. Currently, surgeries, such as robotic laparoscopy, microsurgery, three-dimensional surgery, the use of stem cells, selective chemotherapy against malignant cells, and treatment of urology diseases using immunological methods are included in programs of the world's scientific societies, toward which we are advancing.

Definition and Duration of Training Program:

Urology is a branch of clinical and surgical sciences dealing with preventive measures, diagnosis, management, care and rehabilitation of medical and surgical diseases of genitourinary tract and includes the following areas: diseases of the adrenal glands, kidney, ureter, bladder, urethra, and prostate, urinary incontinence in both sexes, male infertility, impotence, developmental disorders, and congenital diseases of these organs, such as ambiguous genitalia, as well as the surgery of urologic retroperitoneal and inguinal canal diseases..

This course duration is four years.

According to the 35th session of the Council of Graduate Medical Education dated September 16, 1991, departments which are able to provide a 5-year training are permitted to implement this 5-year-course with the agreement of the Head of Department.

Aims:

In the next 10 years, this course in the country will be among top countries in the region in terms of educational standards, research production, and providing health services to people.

2- To train specialists who are scientifically updated, competent, responsive, and sensitive to the health of individuals and society in the field of urology and interdisciplinary fellowships.

Admission Requirements

- B.D.S./D.M.D./D.D.S or equivalent certificates for the applicants of Specialty
- Certificate of Internship or Certificate of Practice

Language Requirements:

- Language requirements: Evidence of English Proficiency on the TOEFL or IELTS tests. The minimum score for TOEFL PBT, TOEFL iBT and IELTS is 533, 72 and 5.5 respectively.
- Applicants from Persian (Farsi) Speaking countries (They shall both speak and write in Persian) who have applied for graduate Degree-based programs may be exempted, based on the decision of the department, from submitting any certificates regarding their English Language Proficiency. Nevertheless, they are required to hand in their English language certificate which meets SUMS' minimal language proficiency requirements, within one year from commencing their studies at SUMS.

Expected Competencies at the End of the Program

General Competencies*

Procedural skills (Diagnostic-therapeutic procedures)

Cystoscopy

Trans ureteral lithotripsy (TUL)

Percutaneous nephrostomy

Percutaneous cystostomy

Sperm retrieval for IVF

Testicular biopsy

Retrograde ureteral catheterization

Extracorporeal shock wave lithotripsy

Urodynamic procedures

Prostate Biopsy

Urinary catheterization

Ureteroscopy

Ureteral catheterization, including insertion and removal of the stent, retrograde pyelography

Urethral dilatation

Transurethral bladder biopsy

Transurethral Resection of the Prostate

Transurethral resection of bladder tumor

Percutaneous drainage of kidney cyst
Percutaneous nephrostomy
Circumcision
Bladder neck incisions
Meatotomy – meatoplasty
Meatal advancement and glanuloplasty incorporated (MAGPI)
Distal hypospadias repair
Cavernosal shunt placement for the treatment of priapism
Diagnostic laparoscopy
Endoscopic Posterior urethral valves destruction
Endoscopic injection to treat reflux and urinary incontinence
Drainage of the renal, bladder, and retroperitoneal abscesses
Urinary incontinence surgery
Repair of penile trauma
Penile curvature correction
Hydrocele
Epididymal cysts
Simple orchidectomy
Varicocele
Herniotomy
Herniorraphy
Orchidopexy
Testicular torsion repair
Pyeloplasty for narrowing the pelvic junction
Kidney Cyst Surgery
Simple, radical, and partial nephrectomies
Nephroureterectomy
Open surgeries of kidney and ureteral stones
Urethroplasty
Urethrectomy
Urethrostomy
Reflux correction
Bladder augmentation
Urethral fistula repair
Radical cystectomy
Surgical procedures for kidney, Ureteral, and bladder damages
Pelvic lymphadenectomy
Bladder diverticulectomy
Types of prostatectomy

Retroperitoneal lymphadenectomy
Ultrasound of the kidneys, bladder and testicles
Transrectal ultrasonography for the prostate biopsy and urologic diseases
Surgeries of retroperitoneal tumors associated with urological diseases
Vasovasostomy and vasoepididymostomy
Kidney transplant
Adrenalectomy
Correction of proximal hypospadias
Vaginal or abdominal surgeries associated with the main urinary tract in women
Epispadias repair
Urethrotomy under direct vision
Placement of genitourinary tract prostheses
Radical prostatectomy

Educational Strategies, Methods and Techniques*

Student assessment:

Assessment methods:

Students will be assessed by the following methods:

1. Written, Oral, OSCE, DOPSS, 360-degree feedback, Computer interaction tests
2. Portfolio assessment, including: the results of tests performed, Logbook assessment, article assessment, certificates of lectures and the curricula implemented, Acknowledgements, notifications

Periods of Assessment:

Every six months
Final exam

Ethical Considerations*

*Note: The related document(s) can be found at <http://hcmep.behdasht.gov.ir/>.

Educational ward, unit, or area	Syllabus- Measures	Duration (month)
Clinic	Outpatient visit- selecting, filing cases, and hospitalizing patients, performing outpatient procedures, educating the lower-level classes, following up the expert consultations given to the patients, responding to expert consultations requested, and other measures in accordance with the ward schedule	Three days a week during the course
In-patient ward	Visiting hospitalized patients, stabilizing patients admitted in the ward, performing diagnostic-therapeutic procedures at the bedside, Preparing patients for surgeries, patient care, educating the lower-level classes, and other measures in accordance with the ward schedule	Every day during the course
Operating room	Participating in surgeries by observation, assisting, or performing independently, in accordance with the ward schedule	Three days a week during the course
Procedure room	Participating in procedures by observation, assisting, or performing independently, in accordance with the ward schedule	During the course, case study
General Surgery ward	Familiarity with the basics of surgery and tissue repair, familiarity with the operating room and surgical instruments, familiarity with patient care before, during, and after general surgeries and vascular surgery	2 months
Pediatric Surgery ward/ pediatric urology ward	Participation in the surgeries of children's genitourinary tract	1 month
Gynecology ward	Familiarity with and participation in surgeries, management of pelvic floor disorders in women and the female pelvic anatomy	1 month
Pathology	Familiarity with the microscopic view of normal and abnormal tissues of the urinary tract	During the course
Radiology	Familiarity with the analysis of imaging associated with genitourinary system Familiarity with the principles of ultrasound	During the course
Elective ward	According to the ward selected	1 month

Important Notice:

The above features the curriculum of the Urology Program designed and approved by the Iranian Ministry of Health and Medical Education. Given the fact that Shiraz University of Medical Sciences is constantly improving and updating itself to meet the international academic standards and the state of the art, and based on the availability of facilities, devices, ward, laboratories, etc. at SUMS, all the SUMS curricula are approximately 20% subject to change.