

In the Name of God

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

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
*Preferably trained in a general surgery ward.

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/>.

The overall Structure of the Course

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

Seyed-Hassan Emami-Razavi MD
Secretary of the Council for
Graduate Medical Education

Seyed Mansour Razavi MD
Secretary of the Supreme Council for
Medical Sciences Planning

Bagher Larijani MD
Deputy for Education
Ministry of Health and Medical Education