



## *In the Name of God*

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

# Endourology

Degree: Fellowship

### **Program Description**

Along with the educational developments of urology, special attention has been paid to the development of fellowship courses, including Endourology. Therefore, it is necessary to review the curriculum along with the curriculum of the master field and develop it at the national level. To this end, the curriculum development committee was formed. The curriculum of endourology was developed using the opinions of experts, evaluating existing curricula, and reviewing the curricula of selected international universities. The development of this curriculum is a step toward improving the quality of education in this course, as well as improving the quality of services. Implementing the curriculum and obtaining experience during implementation will provide more opportunities for promotion. From this perspective, the opinions of students, faculty members, administrators and other experts are welcomed.

### **Definition and Duration of the Training Program:**

Fellowship of endourology is a subset of urology and the graduates are involved in screening, prevention, diagnosis and treatment of congenital and acquired urologic diseases with minimally invasive approach for surgeries, using new energies and endoscopic procedures.

**The endourology training course is 18 months.**

### **AIMS:**

- 1- To train knowledgeable, competent and committed specialists in fellowship of endourology to serve the community with their knowledge and expertise in the areas of prevention, diagnosis, treatment, education and research and continuously improve this process.
- 2- In the next 10 years, it is expected that we will achieve the highest international standards and rank first in the Middle East in this fellowship. Also, we will rival the best countries in the world in terms of providing qualified service provision and science production.

## **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.

## **Admission Requirements:**

- M.B.B.S./M.D. and specialty or equivalent certificates
- Certificate of Internship or Certificate of Practice

## **Expected Competencies at the End of the Program**

### **General Competencies \***

### **Specific Competencies and Skills**

#### **Procedural Skills (Diagnostic-Therapeutic Measures)**

Percutaneous nephrostomy

Ultrasound of the kidneys, bladder, prostate and testicles for diagnostic and therapeutic measures.

Percutaneous nephrolithotomy (PCNL)

Percutaneous endopyelotomy and tumor resection

Ureteroscopy (therapeutic and diagnostic)

Laparoscopic surgeries (group A) \*

Laparoscopic surgeries (group B) \*

Laparoscopic surgeries (group C) \*

Extracorporeal Shock Wave Lithotripsy (ESWL )

\* Adrenalectomy, Colposuspension, Cryptorchidism treatment, Hernia repair, Nephrectomy for benign disease, Radical nephrectomy (T1-T2), Partial nephrectomy (Cancer), Partial nephrectomy benign disease), Nephro-ureterectomy (cancer), Nephro-ureterectomy (benign disease), Liver- donor nephrectomy Nephropexy, Pyeloplasty, Pelvic lymph node dissection Radical prostatectomy, Retroperitoneal lymph node dissection (stage 1), Renal cyst treatment, Ureterolithotomy, Varicocelectomy

## **Educational Strategies, Methods and Techniques\***

## Student Assessment (Methods and Types)

### a. Assessment Methods

Log book assessment

DOPS

### b. Periods of assessment

Assessment Log book (continuously and every 3 months)

Note: At least one implemented research project (also the acceptance certificate is acceptable) is required for announcement of graduation.

### Ethical Considerations \*

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

Division, Unit or Setting	Content - Measures	Duration (Month)
Endourology Ward	Visiting patients (pre- and post-op)- Participation in educational, diagnostic, therapeutic and research programs in accordance with regulatory programs of the ward- Thorough examination of the records and preparing patients for surgery	22 Months
Clinic	Visiting patients- Participating in medical consultation – Follow up of the patient- ,Choosing – Performing measures for outpatient procedures	During the COURSE (Two days a week)
Lithotripsy	Determining ESWL indications and applying the mentioned devices – Preparing and follow-up patients before SWL	During the Period (at least once a week)
Operation Room	Observation, participation or performing the related surgery- Follow-up of the patients in the recovery room during the first hours after surgery in the ward.	During the Period (at least three days a week)
Research Field		22Months
Optional Ward	In accordance with selected ward	During the course (two days a week)

***Important Notice:***

The above features the curriculum of the Endourology 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.