

## In the Name of God

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

## Thorax Surgery Degree: Subspecialty

### Program Description

It is a subset of general surgery specialty of which the graduates will be trained in diagnosis and surgical management of congenital and acquired related diseases like pulmonary, pleural, chest wall, tracheal and diaphragmatic ones.

Course Duration is 2 years with the aim of training competent, knowledgeable, liable subspecialists for service provision and continuous improvement in diagnosis, therapy, prevention, education, and research and science production in the field of Thorax Surgery.

### Admission Requirements

- Holding an MD degree
- Having specialty in General Surgery
- Having passed the Entrance Exam

### Expected Competencies at the End of the Program

#### General Competencies\*

#### Specific Competencies and Skills

At the end of the program learners will be competent in the following skills:

- Lung Biopsy, Resection and Repair
- Chest wall Surgery
- Resection ,repair and reconstruction Surgery in Tracheal and Broncheal Cancers and Stenosis
- Resection ,repair and reconstruction Surgery Esophageal and Cardiac Diseases
- Resection ,repair and reconstruction Surgery of Diaphragm
- Mediastinal Surgery
- Pericardial Surgery
- Using Bendable or Rigid Endoscopy in Esophageal or tracheabronchial related Problems.
- Cervical, Axillary or mediastinal Lymph Node Biopsy
- Thoracic Sympathetic Nerve Surgery
- Thoracic Outlet Syndrome Surgery
- Air ways Surgery
- Emphysema Surgeries
- Cervical or Thoracic Vertebra Surgeries
- Surgery of Thoracic Trauma Patients
- Lung Transplants
- CVP, Swan Ganz , Arterial Catheter Insertion
- Total Enteral and Parenteral Nutrition
- Management Of Complicated Cases

## Educational Strategies, Methods and Techniques\*

### Student Assessment (Methods and Types)

<b>Methods:</b>	<b>Periods</b>
Log Book	Monthly
Continuous Assessment	Every Six Months
Annual Exams	Annual

### Ethical Considerations\*

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

### The overall structure of the course:

Ward/Unit/Educational Field	Content	Duration
Thorax Surgery Ward	Participation in Educational –Therapeutic Programs based on ward schedules including : In-patient & Out-patient visits, Morning Reports, Conferences ,Patients Therapeutic Scheduling , Responding to Consults, Participation in patients’ surgeries with Graded Responsibility Methods	12 months
Pulmonary Diseases Ward	Presence in Pulmonary Clinic, Ward and ICU and active participation in care and treatment of the patients ,Introduction to patients’ conditions monitoring and working with Mechanical Ventilation equipment and accomplishing skills in diagnostic , therapeutic and invasive Intervention procedures under supervision ...	2 months
Cardiovascular Surgery Ward	Presence in Cardiovascular surgery Clinic, Ward and CCU and conferences, Angiography and echocardiography units .... In Depth introduction to theoretical points of Diagnosis, Care and surgical management in related diseases.	2 months
Optional Rotations including : Pathology, Radiology, Medical Oncology, Radio-oncology, Laparoscopy, Thoracoscopy	Introduction to Diagnosis and Management of Malignancies and Imaging Methods...	2 months
Thorax Surgery Ward	Participation in Ward schedules as a Chief subspecialty Resident in Diagnosis, management of Inpatient /Outpatient cases with extended responsibilities.	6 months



Seyed-Hassan Emami-Razavi MD  
Secretariat 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