

**In the Name of God**

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

**Infectious Diseases in Immunocompromised Hosts &  
Transplantation  
Degree: Fellowship**

**Program Description**

Infection in transplant recipients and immunocompromised hosts, including patients with cancer and AIDS is one of the main issues in infectious diseases. After Islamic revolution there have been prominent developments in Different medical fields, such as organ and bone marrow transplants , which had made IRI one of the of the top countries in Middle East. Transplant and cancer patients with infectious diseases should be managed scientifically and accurately. The need to improve the specialists' competencies in this regard is more crucial than ever in the country. To this end, a committee consisting of experts was established in 2009 to develop a national curriculum in this specialized field. After reviewing and holding several meetings, the committee developed the present curriculum, which was issued to the universities after legal procedures and approval.

**Definition and Duration of The Training Program:**

Infectious Diseases in Immunocompromised Hosts & Transplantation fellowship is a clinical course originated from the field of Infectious and Tropical Diseases. The graduates of this course are involved in the prevention, diagnosis, management and care of infectious diseases in transplant patients (bone marrow and solid organs), cancer patients receiving chemotherapy and radiotherapy, patients with congenital or acquired immunodeficiency, patients with autoimmune diseases, and patients receiving immunosuppressive drugs, and they will provide the society with their specialized services in the areas of education, research, and health services.

**The duration of this course is 18 months.**

**Aims:**

1. To train knowledgeable, competent, and compassionate specialists engaged in prevention, diagnosis, management and care of transplant and immunocompromised patients with infectious diseases, and provide the society with their knowledge and skills in the areas of education, research, and health services.
2. In the next 10 years, Iran will be among the top countries in the Middle East in the field of infectious diseases in immunocompromised, cancer, and transplant patients in terms of the quality of education and providing the society with health services and will have a good position in terms of science production in the Middle East.

**Admission Requirements**

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

**General Competencies\*** 

**Specific Competencies and Skills**

Procedural Skills (Diagnostic-Therapeutic Procedures):

Lumbar puncture

Bone marrow biopsy and aspiration  
Liver biopsy without ultrasound guidance  
Ultrasound-guided liver biopsy  
Knee joint aspiration  
Pleural puncture  
Pleural biopsy

## Educational Strategies, Methods and Techniques\*

### Student Assessment (Methods and Types)

#### Assessment Methods:

Written, oral, computer interaction test, OSCE, DOPS, 360-degree feedback  
Portfolio assessment, including log book, articles and writings, the results of tests performed before, certificates, incentives and hints.

#### Periods of Assessment:

Annual assessment (two times during the course)  
Final examination

## Ethical Considerations\*

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

**The overall structure of the course:**

Educational ward, unit, or setting	Syllabus- Measures	Duration (month)
Specialized clinic	Outpatient visit- selecting, filing medical records, and hospitalizing patients- following up the expert consultations given to the patients, performing outpatient procedures, teaching the lower-level classes, responding to expert consultations requested, and other measures in accordance with the curriculum organized by the ward	Two days a week during the course
Procedure room	Participating in surgical procedures by observing, assisting or performing independently according to the curriculum organized by the ward	Case study during the course
Adult infectious disease and HIV wards	Visiting hospitalized patients, patient care, stabilizing inpatients, performing diagnostic-therapeutic procedures at the bedside, teaching the lower-level classes, and other measures in accordance with the curriculum organized by the ward	2 months
(Adult and pediatric) hematology, oncology, and bone marrow transplant wards	Visiting inpatients, patient care, stabilizing inpatients, performing diagnostic-therapeutic procedures at the bedside, teaching the lower-level classes, and other measures in accordance with the curriculum organized by the ward	6 months
Transplant wards (kidney, liver, lung)	Visiting inpatients, patient care, stabilizing inpatients, performing diagnostic-therapeutic procedures at the bedside, teaching the lower-level classes, and other measures in accordance with the curriculum organized by the ward	4 months
Radiotherapy ward	Familiarity with the principles of radiotherapy and oncology, side effects of radiotherapy and	1 month

	chemoradiotherapy, and common infections in patients treated with radiotherapy	
Pediatric infectious disease ward	Visiting hospitalized patients, patient care- stabilizing the patients hospitalized in the ward - performing diagnostic-therapeutic procedures at the bedside, teaching the lower-level classes, and other measures in accordance with the curriculum organized by the ward	2 months
Immunology unit (clinical)	In accordance with the curriculum organized by the ward	1 month
Adult and pediatric rheumatology ward	In accordance with the curriculum organized by the ward	1 month
Elective	In accordance with the curriculum organized by the ward	1 month

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