

## In the Name of God

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

## Allergy & Immunology Degree: Subspecialty

### Program Description

Immunology as a medical Sciences branch has had marked development in parallel to all other parts of Medicine. Immunology Science Developments and more Information about Human Defense Mechanism have made this Science a Core model in diagnosis the Causes and nature of a wide spectrum of diseases. On the other hand, study of Diseases originated from Immune System Disorders or Incompetence with the pictures of Immunodeficiency, Allergy, Autoimmunity, cancer... had been effective in illustrating the complexity of Immune System.

During recent Decades and with development of Fellowship and Subspecialties Courses and increasing numbers of researches and published Articles in Immunology and Allergy, training of competent physicians for Prevention, diagnosis and treatment of related diseases of has become of great importance.

We hope that with more attention to appropriate place of this subspecialty in National comprehensive scientific Map and evolving correct connection between Basic and Clinical Medical Sciences Specialists, with Provision of development of this science up to frontiers of Knowledge, individual and community health promotion will be achieved.

This current Curriculum is the result of at least 6 months' hard work of Scientists and Experts in this field, comprising a wide spectrum of Immunology and Allergy Diseases from childhood to adulthood.

### Definition & Duration of the Training Program:

Clinical Immunology and Allergy is a Clinical Medical Course and the graduates at the end of Training program, will become competent in different Allergy fields like Asthma, Nasal & Ophthalmic allergies, eczema a, Anaphylaxis, drug Allergies, and Primary and Secondary Immunodeficiencies, autoimmunity, and related diseases.

These subspecialists will provide individual and community health in different related fields of Prevention, Diagnosis, Treatment, rehabilitation, Research and Education.

Course duration is 36 months.

### Aim:

Training of Competent, Knowledgeable, liable subspecialists for service provision and Continuous Health Promotion through Diagnostic, Therapeutic, Preventive, Educating and Researching and Science Production Fields of Clinical Immunology and Allergy.

## 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:

##### **Procedural Skills:**

- Skin Allergic Test
- Patch Test
- Autoantibody Test
- Delayed Hypersensitivity Tests
- Simple Spirometry
- Exercise respiratory Test
- Bronchodilator Respiratory Test
- Nasal Smearing and Eosinophils Measurement
- IGE Measurement (serum specific,total)
- Immunoglobulin Measurement
- NBT
- Isohemagglutinin Measurement
- CH50 Measurement
- Flocitometry Measurement
- PCR
- Blood Smear preparation
- ELISA
- C3/C5 Measurement
- Chemotaxis test
- IVIg injection

### Educational Strategies, Methods and Techniques\*

#### Student Assessment (Methods and Types)

Assessment Methods	Assessment Periods
MCQ OSCE DOPS Global Rating Form 360	During the Course

### Ethical Considerations\*

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

**The overall structure of the course:**

Ward/Unit or Educational Feild	Content	Duration
Adult & pediatrics Immunology and Allergy Clinics	Outpatient Visits	3days /week
Immunology & allergy Wards	Inpatient Visits/Participation in Educational Schedule	24 Months
Immunology and Allergy Labs	Performing /or supervising cutaneous Tests/Spirometry...	3months
Obligatory Rotation*	Based on Schedule	8months
Optional Rotation	Based on Schedule	1month

\*Dermatology (1month), Hematology & Oncology (3months), Adult or Pediatrics Lung Diseases(1month), Rheumatology (1 month), Ear, Nose & Throat (1 month)

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