

## In the Name of God

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

## Pediatrics Degree: Specialty

### Program Description (Introduction)

The pediatrics curriculum emphasizes on the unique spectrum of children growth (infancy to adolescence), reviews children's normal growth and developmental events and nutritional requirements in different ages, and emphasizes the most common diseases affecting children of different ages.

More emphasis is on the role of the primary preventive measures, health education and family consultation, and mental and social aspects of the health and disease. The curriculum further highlights the importance of working as a manager or a member of the healthcare team in harmony with other sectors of the society for health promotion in children, families, and the society.

### Program Definition and Duration:

This program deals with the pre-natal to the early adulthood (18 years old). Services of this program involve a broad range of activities in the area of the supply, maintenance, and promotion of health, including the prevention, diagnosis, treatment and follow-up, and rehabilitation in that period of life.

**The program duration: 4 years**

### Admission Requirements

- Holding an MD degree
- Having passed the National 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:

- Insertion of all types of catheter
- Blood sampling from arteries, veins, umbilical vein, and heels of infants
- Perform a variety of intradermal, subcutaneous, intramuscular, intravenous, and intraosseous injections
- Perform bone marrow aspiration, lumbar puncture, suprapubic aspiration, and aspiration of pleural effusion, ascites, and articular fluid
- Perform CPR (Basic and Advanced Life Supports)
- Perform electrocardiography
- Preparation of smears and staining with Gram and Giemsa stains
- Perform urinalysis
- Perform urinary catheterization
- Bone marrow and liver Biopsy
- blood transfusions (Whole or partial blood)

- Surfactants injection through tracheal tubes
- Perform peritoneal dialysis
- Circumcision
- Using Ventilator
- Chest tube Insertion
- Vaccination
- PPD

## Educational Strategies, Methods and Techniques\*

### Student Assessment (Methods and Types)

#### Assessment methods

- Mini-CEX (mini clinical examination exercises)
- Direct observation of procedural skills (DOPS)
- Multi source feedback (MSF) or 360-degree assessment
- Role playing
- Examining the medical records:
- Case presentation
- Role modeling
- Reporting the residents' performance directly
- Reviewing the log book continuously and critically
- Objective structured clinical examination (OSCE) and its various types
- Multiple choice question (MCQ)

#### Periods of assessment:

- Formative, summative
- Student portfolio

## Ethical Considerations\*

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


## The overall structure of the course:

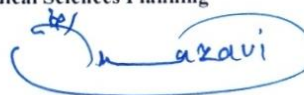
| Residency year                                   | Place of training  | Content  | Duration |
|--|--|--|----------|
| 1 month before official Beginning of the Program | <b>Workshops</b>   | Orientation Sessions<br>Introduction to Rules & Regulations<br>Communication<br>Clinical Judgment<br>Decision Making<br>Research Method<br>Evidence Based Medicine<br>ICD-10<br>Health Policy<br>Water –Electrolyte ,Blood Gas Interpretation<br>National Children Health Status | 1 month  |
| First Year<br>1 <sup>st</sup><br>6 months        | <b>Pediatrics general ward</b>   | Participation in Inpatient Visit under Chief Resident Supervision  | 1 month  |
|  | <b>Pediatric infectious diseases</b>   | Participation in Inpatient Visit under Chief Resident Supervision  | 2 months |
|  | <b>Emergency ward and clinics</b>  | Participation in Emergency Department Inpatient Visit under Chief Resident Supervision   | 2 months |
|  | <b>Maternity ward</b>  | Presence in Operation /Labor Room during Child Birth   | 1 month  |
| 2 <sup>nd</sup><br>6 months                      | <b>NICU ward</b>   | Participation in Inpatient Visit under Chief Resident Supervision  | 1 month  |
|  | <b>Emergency ward</b>  | Participation in Emergency Department Inpatient Visit under Chief Resident Supervision   | 1 month  |
|  | <b>Clinic</b>  | Participation in Out- patient Visit under Chief Resident Supervision   | 1 month  |
|  | <b>Neonatal/Nephrology Ward</b>  | Participation in Inpatient Visit under Chief Resident Supervision  | 2 months |
|  | <b>Society</b>   | Family Counseling ,Growth & Development ,Healthy Baby Care, Community Health Needs Assessment, Evaluation of Infectious Diseases Prevalence and Prevention Methods   | 1 month  |
| During The Training Program                      | <b>Adolescent Ward</b>   | Participation in Inpatient Visit under Chief Resident Supervision  | 1 month  |
|  | <b>Workshop</b>  | Nutrition /Growth & Development  | 2 days   |
| Second Year                                      | <b>Infectious disease, Hematology, Pulmonary diseases, Allergy &amp; Asthma, immunology ,Neurology Wards</b> | Participation in Inpatient Visit under Chief Resident Supervision  | 5 months |
|  | <b>PICU</b>  | Participation in Inpatient Visit under Chief Resident Supervision  | 1 month  |
|  | <b>Surgery Ward(Anesthesiology)</b>  | Participation in Inpatient Visit under Chief Resident Supervision  | 1 month  |
|  | <b>Society</b>   | Family Counseling ,Growth & Development ,Healthy Baby Care, Community Health Needs Assessment, Evaluation of Infectious Diseases Prevalence and Prevention Methods ,.....  | 1 month  |
|  | <b>Imaging &amp; Lab</b>   | Under-supervision Evaluation & Interpretation of Radiologic Images   | 1 month  |
|  | <b>Neonatal Ward</b>   | Inpatient Neonates Visits  | 1 month  |
|  | <b>Emergency ward and clinics</b>  | Out- patient – emergency patient visits (CPR,BLS)  | 1 month  |

|                    |                                |  |          |
|--------------------|--------------------------------|--|----------|
|                    | <b>Society</b>                 |  | 1 month  |
| <b>Third Year</b>  | <b>General Pediatrics Ward</b> | Inpatient Visit under Chief Resident Supervision                           | 1 month  |
|                    | <b>Subspecialty wards</b>      | Inpatient Visit under Chief Resident Supervision                           | 8 months |
|                    | <b>NICU ward</b>               | Neonatal Visit Under Chief Resident Supervision                            | 1 month  |
|                    | <b>PICU ward</b>               | Children Visit Under Chief Resident Supervision                            | 1 month  |
|                    | <b>Health &amp; Society</b>    | Children Health Monitoring ,<br>Participation in Children Health Promotion | 1 month  |
| <b>Fourth Year</b> | <b>PICU</b>                    | Patient Visits and Super vision on colleagues                              | 1month   |
|                    | <b>NICU</b>                    | Patient Visits and Super vision on colleagues                              | 1month   |
|                    | <b>General Pediatrics Ward</b> | Out-Patient /In-Patient Visits and Super vision on colleagues              | 2months  |
|                    | <b>Emergency Ward</b>          | Patients visit and supervision on Colleagues                               | 1month   |
|                    | <b>Subspecialty wards</b>      | Patients visit and supervision on Colleagues                               | 5 months |
|                    | <b>Optional Ward</b>           | Depending on Ward Policies   | 1month   |
|                    | <b>Health &amp; Society</b>    | Children Health Monitoring ,<br>Participation in Children Health Promotion | 1month   |

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

  
Seyed Mansour Razavi