

## In the Name of God

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

## Neonatal & Perinatal Medicine

### Degree: Subspecialty

#### Program Description

Neonatal and Perinatal Medicine is a comprehensive science field including care for preconception up to post neonatal period. It is a subset of pediatric medicine, focused on neonatal health provision, maintenance and improvement of service provision in prevention, management, research and educational fields.

Duration of the program is 2 years with the aims of training of liable medical experts responsive to health needs and improving neonatal health status in the community.

#### Admission Requirements

- Holding an MD degree
- Having specialty in Pediatrics
- 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:

- Neonatal Resuscitation, Stabilizing and Transfer
- CVP measurement
- Invasive Blood Pressure Measurement
- Intra tracheal Intubation (Nasal ,Oral )
- LMA
- Intra Tracheal Suctioning
- Oxygen Therapy Monitoring
- Non-invasive Mechanical Ventilation (NIMV ,NSIMV ,NIPPV,CPAP)
- Routine Mechanical Ventilation (CMV)
- High Frequency Mechanical Ventilation
- Chest tube insertion
- Pneumothorax needle aspiration
- Diagnostic Trans illumination
- Endo-tracheal Surfactant Injection
- Pleural Tap
- Blood Sampling (Capillary, Venous, Arterial )

- Catheter Insertion(Umbilical Artery, Peripheral )
- Breastfeeding technics and milk preservation
- Total Parenteral Nutrition
- Ascites aspiration
- Preterm neonate blood transfusion
- Gluco- metry
- Brain Sonography
- Electrocardiography
- Knowing how to use warmer, Incubator ,Infusion pump ,phototherapy & monitors

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

### **Student Assessment (Methods and Types)**

#### **Assessment Methods & Periods**


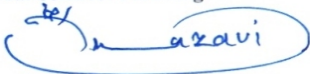
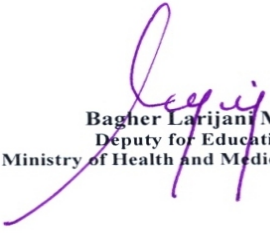
Log book(Continuous supervision)	Exams during training program
Mini-CEX(4-6 times a year )	
DOPS(4- 6 times a year )	
Case- Based Discussion(4-6 times a year )	
MSF(during the course )	
OSCE(2 times a year )	
MCQ(3 times a year )	

## **Ethical Considerations\***

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

**The overall structure of the course:**

Educational Field	Content	Duration (month)
Orientation	Introduction of rules and regulation ,guidelines, research projects	1
NICU Level 2 Neonatal Ward/Clinic	Acquiring knowledge,skills in management and follow up	16
Perinatology	Introduction to high risk pregnancy (inpatient/out patient)	1
Labor Ward/Rooming Inn	Healthy new born care	2
Pediatrics surgery	Pre & post op Visit ,attending in operation room	1
Pediatric Radiology	Introduction to neonatal imaging findings (sonography, MRI, CT scan ..)	During the program
Pediatric Cardiology	Visit of neonates with cardiac diseases and related issues	1
Community	Participation in health related programs	1
Optional	Pediatric : Psychiatry clinic/Dermatology Clinic/Neurology Clinic/Rehabilitation Clinic	1

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