



*In the Name of God*

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

- M.B.B.S./M.D. and specialty or equivalent certificates
- Certificate of Internship or Certificate of Practice

### Language Requirements:

- Language requirements: Evidence of English Proficiency on the TOEFL or IELTS tests. The minimum score for TOEFL PBT, TOEFL iBT and IELTS is 533, 72 and 5.5 respectively.
- Applicants from Persian (Farsi) Speaking countries (They shall both speak and write in Persian) who have applied for graduate Degree-based programs may be exempted, based on the decision of the department, from submitting any certificates regarding their English Language Proficiency. Nevertheless, they are required to hand in their English language certificate which meets SUMS' minimal language proficiency requirements, within one year from commencing their studies at SUMS.

## 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)  
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 )

Exams during training program

#### Ethical Considerations\*

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

***Important Notice:***

The above features the curriculum of the Neonatal & Perinatal Medicine Program designed and approved by the Iranian Ministry of Health and Medical Education. Given the fact that Shiraz University of Medical Sciences is constantly improving and updating itself to meet the international academic standards and the state of the art, and based on the availability of facilities, devices, ward, laboratories, etc. at SUMS, all the SUMS curricula are approximately 20% subject to change.