

In the Name of God

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

Pediatric Neurosurgery

Degree: Fellowship

Introduction:

Due to advances in medical technology, changes have occurred in the needs of society to specialized-scientific services over the past decade. Due to great development in neurosurgery topics and advances in different fields, including tumor lesions surgeries, vascular surgeries, spinal cord, vertebral column, stereotaxy and endoscopy, parallel to changes in pharmacological management, chemotherapy, radiotherapy, and interventions in cerebrovascular diseases, a neurosurgeon alone cannot provide excellent services to all relevant patients. Considering the fact that congenital neurosurgical diseases are more prevalent in Iran than Western countries and taking into account all the above facts, the Pediatric Neurosurgery fellowship will lead to increased therapeutic efficacy.

Duration and Definition of training program :

Pediatric Neurosurgery fellowship is a clinical course originated from Neurosurgery, the graduates are involved in prevention, diagnosis, management , and care provision for patients with congenital and acquired neurosurgical diseases (Up to the age of 18 years) and provide the society with their specialized knowledge and skills in education, research, and health services.

Duration of this course is 18 months.

AIMS:

- 1- To train competent and efficient specialists in the areas of education, research, prevention, and rehabilitation in the field of Pediatric Neurosurgery.
- 2-In the next 10 years, we will be one of the top countries in Middle East in science production and providing educational standards in this feild.

General Competencies*

Procedural Skills (Diagnostic-Therapeutic Procedures):

Procedures
Craniosynostosis
Brain tumors
Repair of neural tube midline defects
Brain Endoscopy
Brain shunt
Insertion of a ventricular catheter (brain)
Diagnostic or therapeutic ventricular drainage
Spinal cord tumors
Craniocervical junction anomalies
Repair of the encephalocele
Head and spinal cord traumas
Growing skull fracture/ Cranioplasty
surgeries of the cerebrovascular lesions
Surgeries of the infectious lesions of the nervous system
Diagnostic procedures of cysternography/ myelography/ shuntography
Diagnostic procedure of measuring the intracranial pressure
Functional surgery

Educational Strategies, Methods and Techniques*

Student Assessment:

Assessment Methods:

Written, Oral, Computer interaction test, OSCE, DOPS, Logbook assessment, 360-degree feedback, paper-based assessment, portfolio assessment

Periods of Assessment:

Every six months

Ethical Considerations*

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

The Overall Structure of the Course:

Educational ward, unit, or area	Syllabus- Measures	Duration (month)
Clinic	Outpatient visit- medical file recording ,patients 'selection for surgery , follow up and responding to patients' consultations, performing outpatient procedures, teaching the lower-level classes,	At least two days a week during the course
Hospitalization ward	Visiting hospitalized patients, patient care- stabilizing the patients hospitalized in the ward – performing bedside diagnostic-therapeutic procedures, teaching the lower-level classes,	Every day during 14.5 months
Operating room	Participating in surgical procedures by observation- assisting or performing independently according to the curriculum organized by the ward	At least 2 days a week during the course
Rotary ward (internal medicine – pediatric neurosurgery)	Outpatient visit- medical file recording ,patients 'selection for surgery , follow up and responding to patients' consultations, performing outpatient procedures, teaching the lower-level classes.	2 months
Pediatric and neonatal ICU	Patient care in ICU	2 weeks
Epilepsy/spine surgery	Introduction to epilepsy/spine surgical procedures	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