

In the Name of God

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

**Pediatric Clinical Neurophysiology
Degree: Fellowship**

Program Description

Pediatric clinical neurophysiology is a Training Program , dealing with how the electromagnetic activities of the nerve cells are created, transmitted and recorded in the brain, spinal cord, peripheral nerves, and muscles due to the normal and abnormal activities of these tissues in fetuses, infants, children, and adolescents, up to adulthood (at the end of 18 years of age). At first, the content of this course was limited to the electroencephalographic study of children. Later, other electrodiagnostic procedures were also added to the scope of this course, such as electromyography, evoked cerebral and neural potentials, electroencephalographic video monitoring technologies, intraoperative neurophysiological monitoring, sleep neuropsychological examination in children, and magnetocephalography technology. Today, the accurate diagnosis of neurological diseases in children is possible through the content of this course and it is necessary to establish this course and train experts in this specialized area. The Ministry of Health began planning for a course to educate these experts in 2008. On April 13, 2011, this issue was discussed and adopted in a meeting of the Committee for Policy-making and Expanding Fellowship Courses.

Definition and Duration of the Training Program:

Pediatric Clinical Neurophysiology is a clinical course which is subset of subspecialty of pediatric neurology and the graduates are engaged in diagnosis, monitoring, and treatment of children with neurological disorders by measuring and interpreting the electromagnetic activities of the brain, spinal cord, peripheral nerves and muscles and provide the society with their knowledge and expertise in the areas of education, research, and health services.

Duration is 12 months.

Training Program Entrance Eligibility Criteria:

The graduates in adult and pediatric neurology who are faculty members of one of the medical universities of the country and have official specialty or subspecialty degree are permitted to enter this course.

Aims:

- 1- To train committed knowledgeable, professional, honest, and caring specialists to meet the needs of medical universities in this field in the country.
- 2- In the next 10 years, we will become one of the top countries the Middle East and will be able to meet the national needs in the areas of health, education, and research related to this course.

Admission Requirements

Board Certified Neurology Specialty

Expected Competencies at the End of the Program

General Competencies*

Specific Competencies and Skills

- Procedural skills (diagnostic-therapeutic procedures)
 - Conventional EEG
 - Quantitative EEG
 - Video EEG monitoring
 - Electro diagnostics (EDX)
 - Evoked potential (EP)
 - Magnetoencephalography (MEG)

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

Assessment Methods:

For monitoring and assessing the fellows, we will use portfolio assessment, including: the results of the periodical tests, logbook, articles, comments provided by the professors and staff, and the educational activities performed.

Formative assessment methods:

- Case Log
- Logbook
- Portfolio
- 360 degree evaluation
- Triple jump
- Mini CEX
- DOPS

Summative assessment methods

- Written (multiple-choice questions)
- OSCE
- OSLE

Periods of Assessment:

Continuous

Ethical Considerations*

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

The overall structure of the course:

Educational area	Content	Duration (month)
Pediatric neurology ward	EEG	3
Adult neurology ward	EEG	1
Pediatric neurology ward	EMG.NCV	3
Adult neurology ward	EMG.NCV	2
Pediatric neurology ward	EP	3

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