

In the Name of God

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

**Pediatric Orthopedics
Degree: Fellowship**

Program Description

With increasing development of all branches of science in recent decades, it is inevitable to address each scientific discipline in a more specialized way. Furthermore, there is an increasing trend in community demands for access to higher levels of health and therapeutic service provision.

Regarding above-mentioned facts, training people with general knowledge of their specialty but higher skills in subspecialized areas, paves the way for providing more appropriate educational-therapeutic services on one hand and the advancement of research areas on the other hand.

The pediatric orthopedics, which is the most important and oldest branch of orthopedics in Europe and U.S, is an especially important fellowship. The current curriculum was developed from reviewing similar curricula in the world, experiences of local experts and according to the local needs.

Training Program Definition and Duration:

Pediatric orthopedics is a branch of orthopedics in which the graduates promote their scientific knowledge and experimental skills in the prevention, diagnosis, treatment, education and research on pediatric orthopedic diseases.

Duration of this training course is 18 months.

Aims:

- 1- In next 10 years we will become one of the top countries in Region, in terms of educational standards, service provision and knowledge production in this area.
- 2- To train knowledgeable, competent and committed professionals to meet the needs in the field of pediatric orthopedics.

Admission Requirements:

Board Certified of Orthopedics Specialty

Expected Competencies at the End of the Program

General Competencies*

Specific Competencies and Skills

Expected procedural skills

- Leg cast (Long, Short)
- Spica plaster
- Long and short, volar and dorsal upper extremity splinting
- Ulnar gutter and radial gutter splinting
- Changing sterile dressings of wounds
- Removal of drain from surgical wounds
- Cleaning and dressing open fractures and types of wounds
- Removing percutaneous pins
- Inserting skeletal traction for distal femur, forearm and elbow
- Cast wedging in a variety of plaster types including spica and long leg cast
- Inserting skin traction for lower extremity for treatment of cases such as DDH or hip fracture
- Inserting halo
- Drainage of superficial abscesses, felon and paronychia
- Performing arthrography of various joints, especially the hip joint
- Tapping or aspiration of various joints including hip, knee, ankle, shoulder, elbow and wrist
- Injection into bone cyst
- Performing hematoma block, digital block and IV block
- Fastening Pavlik harness
- Closed reduction and plastering congenital hip dislocation
- Ponseti method for clubfoot treatment
- Reverse Ponseti technique for vertical talus treatment
- Botulinum toxin injection in different areas including the neck, the upper and lower extremities
- Closed reduction of humerus proximal fractures
- Closed reduction of humerus supracondylar fractures
- Closed reduction of radius proximal fractures
- Removing the broken medial epicondyle out of the elbow
- Reduction of elbow dislocation
- Reduction of fractures in both ulna and radius
- Reduction of distal radius fractures
- Reduction of hand and wrist fractures
- Reduction of growth plate (physeal) fractures
- Reduction of proximal tibia and distal tibia fractures
- Reducing the dislocations of the shoulder, elbow, hip, knee, patella, ankle, subtalar joint

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

A. Assessment Methods

- MCQ periodical exams
- OSCE Clinical exams
- Direct Observation of Procedural Skills (DOPS) assessments
- Log books assessment
- Case based discussion

B. Periods of assessment


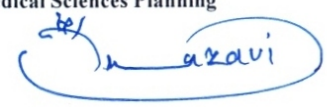

- Continuous DOPS
- Continuous log book assessment (preferably day-to-day)
- Written tests and case discussion every six months and at the end of each course
- The final exam consists of a combination of the above methods

Ethical Considerations*

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

The overall structure of the course:

Department, unit or educational setting	Measures - content	Duration (months)
Orthopedic ward	Inpatients visits, participating in medical consultations, participating in educational activities and other activities according to the department's schedule	14
Specialized and joint clinics	Visiting outpatients, coordinating between different specialists, patients hospitalization', follow up and other activities according to the department's schedule	
Operating room	Observing, assisting, and independently performing pediatric surgeries of hip, femur, leg, knee, foot and upper extremities	
Spinal cord ward	Inpatient visit, participating in medical consultations, participating in educational activities and other activities according to the department's schedule, extracurricular activities	3
Specific and joint clinics	Extracurricular activities	
Operating room	Observing, assisting or independently performing pediatric spinal surgeries	
Optional		1

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