



In the Name of God

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

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.

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.

Admission Requirements:

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

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 Povlik 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://hcmep.behdasht.gov.ir/>

The overall structure of the course:

Department, unit or educational setting	Measures - content	Measures - content
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

Important Notice:

The above features the curriculum of the Pediatric Orthopedics 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.