



In the Name of God

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

Pediatrics

Degree: Specialty

Program Description (Introduction)

The pediatrics curriculum emphasizes on the unique spectrum of children growth (infancy to adolescence), reviews children's normal growth and developmental events and nutritional requirements in

different ages, and emphasizes the most common diseases affecting children of different ages. More emphasis is on the role of the primary preventive measures, health education and family consultation, and mental and social aspects of the health and disease. The curriculum further highlights

the importance of working as a manager or a member of the healthcare team in harmony with other sectors of the society for health promotion in children, families, and the society

Program Definition and Duration:

This program deals with the pre-natal to the early adulthood (18 years old). Services of this program involve a broad range of activities in the area of the supply, maintenance, and promotion of health, including the prevention, diagnosis, treatment and follow-up, and rehabilitation in that period of life.

The program duration: 4 years

Admission Requirements

- B.D.S./D.M.D./D.D.S or equivalent certificates for the applicants of Specialty
- 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.
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- **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:

- Insertion of all types of catheter
- Blood sampling from arteries, veins, umbilical vein, and heels of infants
- Perform a variety of intradermal, subcutaneous, intramuscular, intravenous, and intraosseous injections
- Perform bone marrow aspiration, lumbar puncture, suprapubic aspiration, and aspiration of pleural effusion, ascites, and articular fluid
- Perform CPR (Basic and Advanced Life Supports)
- Perform electrocardiography
- Preparation of smears and staining with Gram and Giemsa stains
- Perform urinalysis
- Perform urinary catheterization
- Bone marrow and liver Biopsy
- blood transfusions (Whole or partial blood)
- Surfactants injection through tracheal tubes
- Perform peritoneal dialysis
- Circumcision
- Using Ventilator
- Chest tube Insertion
- Vaccination
- PPD

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

Assessment methods

- Mini-CEX (mini clinical examination exercises)
- Direct observation of procedural skills (DOPS)
- Multi source feedback (MSF) or 360-degree assessment
- Role playing

Examining the medical records:

- Case presentation
- Role modeling
- Reporting the residents' performance directly
- Reviewing the log book continuously and critically
- Objective structured clinical examination (OSCE) and its various types
- Multiple choice question (MCQ)

Periods of assessment:

- Formative, summative
- Student portfolio

Ethical Considerations*

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

Residency year	Place of training	Content	Duration
1month before official Beginning of the Program	Workshops	Orientation Sessions Introduction to Rules & Regulations Communication Clinical Judgment Decision Making Research Method Evidence Based Medicine ICD-10 Health Policy Water – Electrolyte ,Blood Gas Interpretation National Children Health Status	1 month
First Year 1st 6 months	Pediatrics general ward	Participation in Inpatient Visit under Chief Resident Supervision	1month
	Pediatric infectious diseases	Participation in Inpatient Visit under Chief Resident Supervision	2months
	Emergency ward and clinics	Participation in Emergency Department Inpatient Visit under Chief Resident Supervision	2months
	Maternity ward	Presence in Operation /Labor Room during Child Birth	1 month
2nd 6 months	NICU ward	Participation in Inpatient Visit under Chief Resident Supervision	1month
	Emergency ward	Participation in Emergency Department Inpatient Visit under Chief Resident Supervision	1 month
	Clinic	Participation in Out- patient Visit under Chief Resident Supervision	1month
	Neonatal/Nephrology Ward	Participation in Inpatient Visit under Chief Resident Supervision	2 months
	Society	Family Counseling ,Growth & Development ,Healthy Baby Care, Community Health Needs Assessment, Evaluation of Infectious Diseases Prevalence and Prevention Methods	1 month

During The Training Program	Adolescent Ward	Participation in Inpatient Visit under Chief Resident Supervision	1 month
	Workshop	Nutrition /Growth & Development	2 days
Second Year	Infectious disease, Hematology, Pulmonary diseases, Allergy & Asthma, immunology ,Neurology Wards	Participation in Inpatient Visit under Chief Resident Supervision	5 months
	PICU	Participation in Inpatient Visit under Chief Resident Supervision	1 month
	Surgery Ward(Anesthesiology)	Participation in Inpatient Visit under Chief Resident Supervision	1 month
	Society	Family Counseling ,Growth & Development ,Healthy Baby Care, Community Health Needs Assessment, Evaluation of Infectious Diseases Prevalence and Prevention Methods ,.....	1 month
	Imaging & Lab	Under-supervision Evaluation & Interpretation of Radiologic Images	1 month
	Neonatal Ward	Inpatient Neonates Visits	1 month
	Emergency ward and clinics	Out- patient – emergency patient visits (CPR,BLS)	1 month
	Society		1 month
Third Year	General Pediatrics Ward	Inpatient Visit under Chief Resident Supervision	1 month
	Subspecialty wards	Inpatient Visit under Chief Resident Supervision	8 month
	NICU ward	Neonatal Visit Under Chief Resident Supervision	1 month
	PICU ward	Children Visit Under Chief Resident Supervision	1 month
	Health & Society	Children Health Monitoring , Participation in Children Health Promotion	1 month
Fourth Year	PICU	Patient Visits and Super vision on colleagues	1 month
	NICU	Patient Visits and Super vision on colleagues	1 month
	General Pediatrics Ward	Out-Patient /In-Patient Visits and Super vision on colleagues	2 months
	Emergency Ward	Patients visit and supervision on Colleagues	1 month
	Subspecialty wards	Patients visit and supervision on Colleagues	5 months
	Optional Ward	Depending on Ward Policies	1 month
	Health & Society	Children Health Monitoring , Participation in Children Health Promotion	1month

Important Notice:

The above features the curriculum of the Pediatrics 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.