

Fellowship of Hospital Dentistry for Children

Course Description

The Department of Pediatric Dentistry offers an advanced one-year education course entitled “Fellowship in Hospital Dentistry for Children” for Pedodontists. The course is designed to provide advanced training of pedodontists in treating children who are candidates of comprehensive treatments under general anesthesia/sedation setting. Treatment of children with different disabilities or systemic conditions is also included in this course. We strive to improve pediatric health care and advance the specialty through education of pediatric dentists who are committed to safe, high-quality, evidence-based clinical practice, with a great emphasis on interdisciplinary team work to improve the quality of life of children.

Program Details

Candidates who have successfully finished their postgraduate course of Pedodontics are eligible to apply for this course. This one-year program can be started in February or September but may be extended for more 6 months in special occasions. Two positions are available.

This program is scheduled to be presented in 1343 hours (approximately) which includes 221 hours of theoretical lesson units and 1122 hours of clinical practice.

1. Theoretical Units
 - a. Basic Science (68 hours)

Topic	Hours	Time of unit presentation
Biostatics	8	First semester
Clinical photography	8	First semester
Medical laws, documentation, professional ethics	8	First Semester

Infection control, patient safety, antibiotic therapy	8	All semesters
Physiology and Physiopathology (cardiovascular system, respiratory system, kidney, liver, lymphatic and vascular system, central nervous system, gastrointestinal tract, infectious diseases)	34	All semesters

b. Related Sciences (102 hours)

Topic	Hours	Time of unit presentation
Pharmacology	17	All semesters
History, basics and techniques of sedation/ general anesthesia induction	17+17	All semesters
Recognition and treatment techniques of children with disabilities	8.5+8.5	All semesters
Multidisciplinary dentistry	8.5	First semester
Medical emergencies in dentistry	8.5	First semester

CPR	8.5	First semester
Medical considerations in children with systemic conditions	8.5	All semesters

c. Specific Theoretical Units (theoretical: 51 hours)

Topic	Hours	Time of unit presentation
Principles of behavior management	8.5	All semesters
Principles of dental care and prevention in pediatric dentistry	8.5	All semesters
Principles of treatment planning for children (under general anesthesia/sedation setting)	8.5	All semesters
Introduction to setting up and equipping outpatient settings and dental operating rooms in health centers	8.5	All semesters
Semestrial seminars	8.5	All semesters

Semestrial Case reports	8.5	All semesters
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2. Specific practical units (1122 hours)

Topic	Hours	Time of unit presentation
Clinical dentistry for children under general anesthesia (1)	136	First semester
Clinical dentistry for children under general anesthesia (2)	136	Second semester
Principles of general anesthesia Induction and post-operative monitoring (1)	119	First semester
Principles of general anesthesia Induction and post-operative monitoring (2)	119	Second semester
Clinical dentistry for children under inhalational or combinational sedation (1)	102	First semester
Clinical dentistry for children under	102	Second semester

inhalational or combinational sedation (2)		
Clinical dentistry for children under oral or parenteral sedation (1)	102	First semester
Clinical dentistry for children under oral or parenteral sedation (2)	102	Second semester
Dental management of medically compromised children	51	All semesters
Dental management of uncooperative children (non-pharmacological)	51	All semesters
Research project	102	All semesters

Evaluation of students:

1. Formative Assessments:
 - Evaluations made through written or oral exams
 - Professional practical evaluations including diagnosis, treatment planning and patient follow-ups
 - Assessing the quality of treatments during the course
 - Evaluating the number of treated patients

2. Summative Assessments

- Log-book evaluation
- Presenting selected cases of operations made under general anesthesia or conscious sedation (power-point presentation)
- Thesis defense in the presence of thesis committee and publishing its English article in an approved scientific journal
- Composing a systematic review article and getting its acceptance of publication in an approved scientific journal (English version of the article)

References:

1. Dentistry for the child and adolescent, McDonald and Avery, 2016
2. Pediatric Dentistry, Casamassimo, 2013
3. Basic of anesthesia, Miller, 2011
4. Sedation: a guide to patient management, Malamed, 2018

Faculty members participating in the fellowship program:

Dr. Hossein Afshar (Professor)
Dr. Bahman Seraj (Associate Professor)
Dr. Mehdi Shahrabi (Associate Professor)
Dr. Alireza Heidari (Associate Professor)
Dr. Sara Ghadimi (Associate Professor)
Dr. Shahram Mosharrafian (Assistant Professor)