

In the Name of God

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

Pediatric Dentistry

Degree: Specialty equivalent to Master of Science

Total Course Credits:

- Common basic sciences: 9.5
- Specific basic sciences: 3.5
- Faculty-presented related sciences: 16.5
- Hospital-presented related sciences: 5.5
- Core courses: 86

Program Description

Considering the ever-increasing rate of progress in various sciences, especially in the dental field, which is younger than other medical fields, it seems it is absolutely necessary to revise the educational curricula in these fields. Such revisions were deemed necessary considering: 1) changes in the needs of community members and dental specialists; 2) changes and innovations in the field of prevention and provision of oral health services and also the results of evaluations and determination of real needs as reported by recent graduates and post-graduate students of pediatric dentistry. On the other hand, the guidelines of pediatric dentistry prepared by the Supreme Committee of this field have made it mandatory to revise the curriculum of pediatric dentistry. Therefore, the present revised curriculum was prepared.

Definition

Pediatric dentistry is one of the specialty courses in dentistry, which aims to prevent, preserve and promote health, and diagnose and treat orodental diseases in healthy children and adolescents and in individuals with special needs. The educational materials in this specialty field consist of the materials taught during the general dental course but at a higher and more extensive learning level. Graduates passing the specially exams held by the authorities of the Ministry of Health, Treatment and Medical Education will be certified as pediatric dentistry specialists.

The Aim

The aim of the new curriculum is to train pediatric dentistry specialists who have achieved the global and national standards of knowledge levels, academic and clinical skills, beliefs and professional behaviors. In addition, the graduates are expected to offer high-quality preventive and diagnostic services and also offer educational and research services.

Admission Requirements

- Holding an DDS or DMD degree
- Having passed the National Entrance Exam

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:

- Complete examination and designing a comprehensive treatment plan
- Controlling children's behavior
- Detecting oral cavity's acquired and evolutionary anomalies and disorders
- Applying dental caries preventive methods
- Children's milk and permanent teeth treatment
- Applying fissure sealant and preventive resinous treatment
- Children's milk and permanent teeth pulp treatment
- Management and treatment of impact seen teeth
- Dental Hospital services
- Dentistry for disabled children and adolescents
- Managing and supervising occlusion in children and adolescents

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

- Formative
- Summative
- Comprehensive exam

Ethical Considerations*

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

Tables of the Courses

Table 1. The common basic sciences courses in Pediatric Dentistry MSc

Code of the course	Course title	Units and the course types			Total hours of the courses			Total units
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	
1	Medical education (1)	-	-	1	-	-	51	1
2	Medical education (2)	-	-	2	-	-	102	2
3	Research methods and EBD	-	-	2	-	-	102	2
4	Clinical photography	-	-	1	-	-	51	1
5	Medical emergencies	-	-	0.5	-	-	24	0.5
6	Medical laws and professional ethics	-	-	1	-	-	51	1
7	Infection control and patient safety	-	-	1	-	-	51	1
8	Clinical management and authority	-	-	1	-	-	51	1
Total		-	-	9.5	-	-	483	9.5

Table 2. The specific basic sciences courses in Pediatric Dentistry MSc

Code of the course	Course title	Units and the course types			Total hours of the courses			Total units
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	
9	Immunology	0.5	-	-	9	-	-	0.5
10	Applied head and neck anatomy in children	1	-	-	17	-	-	1
11	Growth and development of the head and face	1	-	-	17	-	-	1
12	Oral lesions in children	0.5	-	-	9	-	-	0.5
13	Oral physiology and biology	0.5	-	-	9	-	-	0.5
14	Application of lasers in pediatric dentistry	-	-	1	-	-	51	1
15	Workshop on judicious prescription of medicines in pediatric dentistry	-	-	1	-	-	51	1
Total		3.5	-	2	61	-	102	5.5

Table 3. The faculty-presented related sciences courses in Pediatric Dentistry MSc

Code of the course	Course title	Units and the course types			Total hours of the courses			Total units
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	
16	Orthodontics	3	-	-	51	-	-	3
17	Orthodontics (1)	-	1	-	-	34	-	1
18	Orthodontics (2)	-	1	-	-	34	-	1
19	Orthodontics (3)	-	1	-	-	34	-	1
20	Orthodontics (4)	-	1	-	-	34	-	1
21	Endodontics	0.5	0.5	-	9	17	-	1
22	Oral diseases (1)	-	0.5	-	-	17	-	0.5
23	Oral diseases (2)	-	0.5	-	-	17	-	0.5
24	Periodontics	0.5	0.5	-	9	17	-	1
25	Oral and maxillofacial surgery		1	-	-	34	-	1
26	Restorative dentistry (1)	1	-	-	17	-	-	1
27	Restorative dentistry (2)	-	1	-	-	34	-	1
28	Oral and maxillofacial radiology	0.5	0.5	-	9	17	-	1
29	Pediatric psychology	2	-	-	34	-	-	2
30	Genetics and applied research in genetics	0.5	-	-	9	-	-	0.5
Total		8	8.5	-	138	289	-	16.5

Table 4. The hospital-presented related sciences courses in Pediatric Dentistry MSc

Code of the course	Course title	Units and the course types			Total hours of the courses			Total units
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	
31	General anesthesia and sedation	-	0.5	-	-	17	-	0.5
32	Pediatric medicine	0.5	0.5	-	9	17	-	1
33	Treatment of children with special needs (1)	-	2	-	-	68	-	2
34	Treatment of children with special needs (2)	-	2	-	-	68	-	2
Total		0.5	5	-	9	170	-	5.5

Table 5. The core courses in Pediatric Dentistry MSc

Code of the course	Course title	Units and the course types			Total hours of the courses			Total units
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	
35	Case presentation (1)	2	-	-	34	-	-	2
36	Case presentation (2)	2	-	-	34	-	-	2
37	Case presentation (3)	2	-	-	34	-	-	2
38	Case presentation (4)	2	-	-	34	-	-	2
39	Literature review (1)	2	-	-	34	-	-	2
40	Literature review (2)	2	-	-	34	-	-	2
41	Literature review (3)	3	-	-	51	-	-	3
42	Literature review (4)	2	-	-	34	-	-	2
43	Literature review (5)	1	-	-	17	-	-	1
44	Thesis (1)	-	-	2	-	-	102	2
45	Thesis (2)	-	-	2	-	-	102	2
46	Thesis (3)	-	2	-	-	68	-	2
47	Thesis (4)	-	-	2	-	-	102	2
48	Thesis (5)	-	-	2	-	-	102	2
49	Research in community dentistry (1)	-	-	1	-	-	51	1
50	Research in community dentistry (2)	-	1	1	-	34	51	2
51	Pediatric dentistry (1)	3	-	-	51	-	-	3
52	Pediatric dentistry (2)	3	-	-	51	-	-	3
53	Pediatric dentistry (3)	2	-	-	34	-	-	2
54	Pediatric dentistry (4)	3	-	-	51	-	-	3
55	Pediatric dentistry (5)	2	-	-	34	-	-	2
56	Pediatric dentistry (1)	-	6	-	-	204	-	6
57	Pediatric dentistry (2)	-	8	-	-	272	-	8
58	Pediatric dentistry (3)	-	8	-	-	272	-	8
59	Pediatric dentistry (4)	-	6	-	-	204	-	6
60	Pediatric dentistry (5)	-	6	-	-	204	-	6
61	Pediatric dentistry (6)	-	2	-	-	68	-	2
62	Participation in training students (1)	-	2	-	-	68	-	2
63	Participation in training students (2)	-	2	-	-	68	-	2
64	Participation in training students (3)	-	2	-	-	68	-	2
Total		31	45	10	527	1530	510	86

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