In the Name of God

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

Degree: Master of Science (MSc)

Total Course Credits

- Common basic sciences: 11.5
- Specific basic sciences: 11.5
- The related sciences: 17
- Specialty sciences: 68

Program Description

Periodontics is a branch of dentistry science employed to preserve and promote the teeth`s adjacent tissues and implant (prevention, diagnosis and treatment) and regeneration of jaws` soft and hard tissue and replacement of missing teeth with dental implants. Emphasis in this major is on the teeth`s health preservation and dental implants by using all the preventive methods and modern treatment techniques.

Program Duration

The Periodontics MSc program is a 3-year full time program in accordance with the regulations of the Council of Dental and Specialty Educations.

Definition

The main subjects and services provided by the graduates of the program consist of: a. diagnosis b. prevention c. treatment d. consulting e. education f. research g. managing h. self-learning

1. Role in diagnosis, requesting required lab examination, taking diagnostic actions, diagnosing the disease, determining the prognosis, prescribing medications and non-surgical treatments, performing related surgical maintenance care, precise documentation in treatment and therapeutic process, multidisciplinary participation in treatment and consulting with related medical experts in order to complete patients' health documents.
2. Role in prevention: identification of predisposed population and target groups and conducting preventive actions in different levels of the society in the field of periodontal tissue`s diseases and implants.

3. Role in consultation: providing professional consultation for patients and colleagues, scientific associations and health care system.

4. Role in education: teaching the patients and their relatives and other members of health care system, educating the undergraduate and post graduate students as a faculty member, teaching the GP colleagues in retraining courses and lifetime learning based of evidences.

5. Role in research: proposing research projects, analyzing data, preparing the reports, writing a scientific article and publication, criticizing related articles and regarding the research ethics.

6.Role in management: leading the dental implant treatment team, leading dental and oral health care team and managing periodontal teaching, research and treatment

The Aim

Our mission is to train capable and ethically oriented specialists in comprehensive service delivery in the field of prevention, preservation and orodental health promotion (periodontal medicine, periodontal plastic surgery, oral soft and hard tissue regeneration surgery, implants).
In the next 10 years, we`ll reach global standards in the field of education. In the field of research and science reproduction we`ll be the best in the region and in health care service to provide, preserve and promote the health we`ll be one of the bests in the region.

Expected Competencies at the End of the Program

Competencies: prevention and diagnosis of periodontal diseases, peri implantitis and related conditions, performing comprehensive implant and periodontal and retentive treatments, lifetime evidence based learning, professionalism in periodontics, making individual and team contact, practice based learning

Major professional practical skills (Diagnosis and therapeutic actions): achieving the correct diagnosis be precise evaluation and examination of the patient and intra and extra oral hard and soft tissues beside patient`s history and complaints. Determining the prognosis regarding all aspects, presenting comprehensive treatment plan(inter and intra disciplinary) , recording and reporting the patients` medical documents, conducting phase 1 periodontal treatment, performing various periodontal surgical and implant techniques (including: periodontal surgical flaps, gingivectomy, curettage, biopsy, various periodontal reconstructive and respective surgeries, hemi section/root resection, periodontal plastic surgery, preprosthetic and implant surgeries: namely putting the implant in all oral regions and in every edentulous types, various bone regeneration surgeries including bone grafts, guided bone regeneration, sinus floor augmentation and implant soft tissue related surgeries), necessary skills for minimizing the patient`s post-op pain and discomfort, wound management, assessing treatment results in case further treatments is needed for preservation or improvement of treatment results, diagnosing and treating any biological side effects occurred around implant, designing and conduction the related research projects (literature review, statement of the problem, aim and theories of suggested research), codification scientific articles, critical evaluation of scientific literature, meeting infection control codes properly, evaluation of the conditions and side effects resulted by dental treatments regarding the damage to periodontal and peri implant tissues, delivering periodontal and implant treatments to special patients, methods of resuscitation (basic and advanced), delivering treatment under general anesthesia and sedation, controlling the related medical emergencies

Professionalism and Ethical Expectations from Residents: It is Expected that Graduates:

A. **In the area of altruism:** preferring the patient's interests to their own, observance of justice while working with different patients, considering all physical, psychological, social and belief-related aspects of patients while treating them, spending enough time in all phases of patient care, paying attention to patients' demands and discomforts, observance of the patients' bill of rights.
B. **In the area of dutifulness and responsibility:** have enough commitment to do their tasks, answer patients' questions, provide patients and their accompaniers with information regarding the patient's status in the most appropriate way, avoid unnecessary interferences with colleagues' work and interact with the health team members, ask patients' permission for examining and taking any diagnostic-therapeutic measures, and

instructing patients properly regarding prevention, appearance of side effects, disease reoccurrence and improvement of life quality.

C. **In the area of honor and honesty:** be truthful, honest and confidant and respect patient's privacy.
D. **In the area of respecting others:** respect patients' conventions, traditions and habits, respect patient as a human being, respect patients' time and observe order and regularity, respect patients' accompaniers, colleagues and therapeutic team members, and have an appearance appropriate to professional prestige.
E. **In the area of professional career:** accept critique, know their scientific limitations, ask for advice and help if needed, improve their knowledge and skills constantly, do diagnostic-therapeutic measures according to available facilities and scientific achievements, and observe the standards of completing medical record and reporting.

Specific Competencies and Skills

At the end of the program learners will be competent in the following skills:
1. Training specialist with theoretical and practical knowledge capable of prevention, diagnosis and treatment of patients suffering periodontal diseases and peri implantitis.
2. Training specialist capable of being a member of treatment team of various surgical treatments on patients seeking dental implants.
3. Training specialist that believe themselves as an inseparable member of comprehensive health care.
4. Training periodontists that believe in lifetime learning
5. Training specialists who treat patients according to evidence based dentistry
6. Training specialist who could teach and research in this field as a faculty member in the university
7. Meeting ethical and professional codes during treatment with treatment team, staff and patients.
8. Being Capable of establishing an effective cooperative smart contact with the patient, his relatives and the treatment team
9. Training the residents to successfully pass the theoretical and practical national board exam.

Educational Strategies, Methods and Techniques*

The following educational strategies are considered in endodontics:
Learner-centered education, learning based on problem solving, integration of basic and clinical sciences, evidence-based learning, lifelong community-oriented education, and systematic education.

Student Assessment (Methods and Types)

A variety of assessment methods including theoretical exam, DOPS, OSCE, Seminar presentation, portfolio, etc., depending on the course, is implemented.

Ethical Considerations*

The graduates should,

- Observe the Patient's Bill of Rights[1] when working with the patients.
- Strictly observe Biosafety and Patient Safety Rules* concerning the patients, personnel and workplace.
- Observe the Rulebook for Dress Code[2].
- Strictly observe the Regulations of Working with the Laboratory Animals[3].
- Carefully preserve resources and equipment.
- Truly respect faculty members, the staff, classmates and other students and work for creating an intimate and respectful atmosphere.
- Observe social and professional ethical considerations in criticism.

1, 2 and 3 are contained in the Enclosures.
* Biosafety and Patient Safety Rules will be set out by the Educational Departments and will be available to the students.

Tables of the Courses

Table 1. Common Basic Science

Course Code	Course Title	Number of Credits			Hours			Total Units	Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop		
1	Medical Education (1)	-	-	1	-	-	51	1	
2	Medical Education (2)	-	-	2	-	-	102	2	
3	Histology & Embryology	0.5	0.5	-	9	17	-	1	
4	Research Methodology & EBD	-	-	2	-	-	102	2	
5	Practical English	1	-	-	17	-	-	1	
6	Clinical Photography	-	-	1	-	-	51	1	
7	Medical Emergency	-	-	.05	-	-	24	0.5	
8	Medical Regulation & Ethics	-	-	1	-	-	51	1	
9	Infection Control & Patient`s Safety	-	-	1	-	-	51	1	
10	Clinical Management & Governance	-	-	1	-	-	51	1	
Total		1.5	0.5	9.5	26	17	483	11.5	

*This course is optional.

Table 2. Specialized Basic Science

Code	Course	Units			Hours				Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	Total	
11	Applicable Immunology	1	0.5	-	17	17	-	1.5	
12	Applicable Head & Neck Anatomy	1	0.5	-	17	17	-	1.5	
13	Oral and Maxillofacial Pathology	1	0.5	-	17	17	-	1.5	3rd Semester
14	Genetics in Periodontology	0.5	-	-	9	-	-	0.5	
15	Clinical Pharmacology	2	-	-	34	-	-	2	
16	Oral Physiology & Biology	1	-	-	17	-	-	1	
17	Tissue Engineering & Biomaterials & Modern Technologies in Periodontology and Implant	1	1	-	17	34	-	2	
18	Oral Applicable Oral Microbiology	1	0.5	-	17	17	-	1.5	
Total		8.5	3	-	145	102	-	11.5	

Table 3. Related Sciences

Code	Course	Units			Hours				Prerequisite
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	Total	
19	Orthodontics	1	1	-	17	34	-	2	
20	Occlusion	0.5	0.5	-	9	17	-	1	
21	Endodontics	0.5	0.5	-	9	17	-	1	
22	Oral and Maxillofacial Medicine	1	1	-	17	34	-	2	
23	Internal Medicine	2.5		-			-	2.5	
24	Anesthesia	1.5		-			-	1.5	
25	Dental and Implant Prosthesis	3		-			-	3	
26	Restorative Dentistry	0.5	0.5	-	9	17	-	1	
27	Oral and Maxillofacial Surgery	1	1	-	17	34	-	2	
28	Oral and Maxillofacial Radiology	0.5	0.5	-	9	17	-	1	
Total		17		-	-	-		17	

Table 4. Specialty Sciences

Code	Course	Units			Hours				Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop	Total	
29	Case Presentation (1)	2	-	-	34	-	-	2	
30	Case Presentation (2)	2	-	-	34	-	-	2	29
31	Case Presentation (3)	2	-	-	34	-	-	2	30
32	Literature Review (1)	2	-	-	34	-	-	2	
33	Literature Review (2)	3	-	-	51	-	-	3	32
34	Thesis (1)	-	-	2	-	-	102	2	
35	Thesis (2)	-	-	2	-	-	102	2	34
36	Thesis (3)	-	2	-	-	68	-	2	35
37	Thesis (4)	-	-	2	-	-	102	2	36
38	Thesis (5)	-	-	2	-	-	102	2	37
39	Theoretical Periodontology (1)	4	-	-	68	-	-	4	
40	Theoretical Periodontology (2)	4	-	-	68	-	-	4	39
41	Theoretical Periodontology (3)	4	-	-	68	-	-	4	40
42	Implant Pre-clinic	-	1	-	-	34	-	1	
43	Periodontics Pre-clinic	-	1	-	-	34	-	1	
44	Implant Clinic (1)	-	3	-	-	102	-	3	43
45	Implant Clinic (2)	-	3	-	-	102	-	3	44

46	Periodontology Clinic (1)	-	8	-	-	272	-	8	
47	Periodontology Clinic (2)	-	10	-	-	340	-	10	46
48	Periodontology Clinic (3)	-	9	-	-	306	-	9	47
		23	37	8	391	1258	408	68	-

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