

In the Name of God

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

Maxillofacial Prosthetic Rehabilitation Fellowship

Program Description:

This one-year course is designed to extend knowledge and improve skills in prosthetic reconstruction of oral/maxillofacial defects.

Definition:

Maxillofacial prosthetics is the branch of prosthodontics concerned with the restoration and/or replacement of stomatognathic and associated craniofacial structures by artificial substitutes. The ultimate goal is to improve the health, function, esthetics, and quality of life of patients with oral/facial defects.

Program Objectives:

The purpose of the TUMS maxillofacial fellowship program is to provide advanced training in the diagnosis and supportive treatment of patients with maxillofacial anomalies. Residents will have the opportunity to treat patients with severe oral and facial deformities from cancer, trauma, or congenital malformations. Clinical training includes prosthetic treatment of cleft palate patients, restoration of acquired oral and facial defects, and implant prosthodontics. Attendees are also allowed to work with radiotherapists and evaluate and maintain the oral and dental health of patients before, during, and after their radiation therapy. They also work with surgical disciplines in restoring a variety of defects including cranial and facial implants, surgical obturators, surgical splints, and other required prostheses.

Expected Competencies at the End of the Program

General Competencies

Upon completion of this program the attendee will be able to:

- Take impressions from maxillofacial patients.
- Restore defective teeth directly or indirectly.
- Design removable partial dentures.
- Perform research on subjects related to maxillofacial problems.

Specific Competencies and Skills

At the end of this program the attendee will be able to fabricate:

- Surgical Obturator and delivering it in the hospital operating room.
- Interim, definitive, and feeding obturators.
- Surgical stents after consultation with the operating surgeon.
- Carrier or protective stents for the patient under radiotherapy.
- Speech aids, nose/eye/ear, and cranial prosthesis.

Main services for graduates:

Main field:

Prosthetic Dentistry [prosthodontics]

Course duration:

1. The course duration is 12 months. It might be extended to 18 months according to the decision of the director and academic members of the program.
2. The attendance hours are fixed to start from 8 AM to 4 PM.
3. Changing majors during the fellowship period is not allowed.

Admission Requirements:

The applicant should have a specialty/MSc degree in Prosthodontics.

Educational Strategies, Methods, and Techniques:

- Presentation and seminar
- Lecture
- Workshop
- Demonstration
- Clinical performance

The Overall Structure of the Course:

- Participation in interdisciplinary conferences
- Seminar presentation
- Clinical treatment of maxillofacial patients
- Attending workshops

Program Details:

Course Titles [general, basic, or clinical]

- Workshop on patient radiotherapy, Principles of behavior management, Speech pathology and speech therapy
- Preclinical and special laboratory course for maxillofacial prosthetics
- Journal clubs
- Clinical dentistry for maxillofacial patients

- **Specialized and Practical Courses**
 1. Fabrication of different kinds of obturators (surgical, interim, definitive (feeding
 2. Fabrication of surgical or career stents
 3. Fabrication of eye/ear/nose and cranial prosthesis
 4. Participation in the surgical operating room

The General Structure of the Program

Row	Course Name	Teaching Hour		
		Theoretical	Practical	Workshop
1	Case presentation			
2	Basics of radiotherapy			
3	Principles of behavior management (psychology)			
4	Speech pathology and speech therapy (workshop)			
5	Journal club on maxillofacial prosthetics			
6	Preclinical maxillofacial prosthetics			
7	Theoretical maxillofacial prosthetics			
8	Clinical maxillofacial prosthetics			

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 diagnosis and treatments during the course
- Evaluating the number of treated patients

2. Summative Assessments:

- Log-book evaluation
- Composing a systematic review article and getting its acceptance for publication in an approved scientific journal (English version of the art)

The fellowship resident should participate in:

- Interdisciplinary seminars related to treating maxillofacial patients
- Hospital operating room
- Principles of behavior management(workshop)
- Speech pathology and speech therapy (workshop)
- Oral and maxillofacial medicine clinic(Head and neck cancer and role of the dentist during radiotherapy or chemotherapy)

The fellowship resident is also highly recommended to:

- Participate in case presentations in Prosthodontics Departement

	Title	Authors
1	Clinical Maxillofacial Prosthetics:1 st ed.St.Louis Quintessence. co	Taylor TD
2	Maxillofacial Rehabilitation: Prosthodontics and Surgical Consideration	Curtis TA, Marunick MT , Beumer J
3	fundamentals of Facial Prosthetics	McKinstry RE

Suggested Readings:

Maxillofacial Prosthetics-multidisciplinary practice	Chalian VA, Drane JB, Standish SM
Prosthetic Rehabilitation	Thomas KF
Maxillofacial Prosthetics	Levin AC
Shafer's Textbook of Oral P.athology. 5 th edition	Sivapathasundaram
Textbook of Clinical Anaplastology	Keith Thomas

Minimum academic staff needed for running fellowship course:

- Specialists in maxillofacial prosthetics
- Specialists in oral and maxillofacial surgery
- Psychologist
- General Dentist
- Surgical oncologist

Well-informed staff required to run this program:

- Laboratory technician trained in fabricating and coloring oral/facial/cranial prosthetics
- Qualified dental nurse
- Dental hygienist

Requirements:

- Two dental chairs equipped with special and accessory instruments that might be needed for maxillofacial patients
- Dental instruments
- Laboratory space
- Educational videos, books, magazines, power points

Faculty members participating in the fellowship program



