



البرنامج التدريبي للاختصاص  
 جراحة الفم والوجه والفكين (طب الأسنان)  
 المجلس العلمي للاختصاص جراحة الفم والوجه والفكين (طب الأسنان)  
 المجلس العربي للاختصاصات الصحية

**Arab Board Fellowship Curriculum of  
 Oral and Maxillofacial Surgery  
 Scientific Council of Oral and Maxillofacial Surgery  
 The Arab Board of Health Specializations**

## **Introduction**

Oral and Maxillofacial surgery is surgical specialty which combine the practice of dentistry and medicine it is a hybrid between Medicine and dentistry with oral and Maxillofacial surgery services based in hospital.

It's the dental qualification which differentiate and oral and Maxillofacial surgery from other specialties.

The department of Oral and Maxillofacial surgery plays an important role in various interdepartmental collaborations, Including:

1-Management of polytrauma patients with the Trauma Unit of the Department of General Surgery, Orthopaedic Surgery department and Accident and emergency.

2- Orthognathic surgery and Cleft palate reconstruction in conjunction with the Departments of Orthodontics Paediatric Dentistry and Plastic and Reconstructive Surgery

3- Plastic and reconstructive surgery.

4- Department of oncology and radiotherapy.

5-Department of head and neck Surgery, Otolaryngology (ENT).

6-Rehabilitation of patients with dental implants with the Department of Oral Rehabilitation.

The Training program is five years, during these years the trainee will have progressive training and education with 12-14 months of rotations in medical and surgical specialties with full responsibility with patient's care.

The training program is structured and at the end of training the candidate must demonstrate the ability to conduct consultation and show good sound clinical knowledge and be able to perform a complete competent diagnosis and Therapeutic care of patients with Oral &Maxillofacial surgery problems

The Training will be in various oral and maxillofacial Surgery units approved for training by the Arab board of health specialties Training program

The Oral and Maxillofacial surgery Arab Board Program was Launched in 1996 under the umbrella of the Arab board of medical specialist which changed now to Arab Board of Health specialties

Its 5 years training program in approved center at various parts of the Arab world It's hospital-based dentistry specialty with with integrated progressive medical and surgical training.

## **The Aims**

The main aim of this curriculum is to allow trainees to become competent in the specialty. The Trainee must demonstrate full and proactive engagement through careful understanding of learning objectives, self-directed learning, openness to reflective feedback and formative assessment, self-care and wellbeing, and the ability of seeking support when needed.

The Program Director in each recognized center by the Arab board of Health Specialty responsible to make the curriculum implementation most successful Training committee members, and in particular, the program administrator, specialists and chief resident, will have a significant impact on the program implementation. Trainees should be enabled to share the responsibility in curriculum

implementation. The Arab Board of health Specialties will apply the best practice models in training governance to achieve the best quality of training. The Training Department and the training board committee will have a major role in training supervision and implementation.

## **Entry requirements**

The applicant must be having a Hold a Board recognized BDS, DDS or DMD degree.

Have successfully completed 12 months of internship. + or – 6 months to one year house officer in oral surgery

Duration:

Duration of the Program 5 years

## **Year one: first year**

Dento- alveolar and Oral surgery /oral pathology and oral Medicine clinics with tutorials for months to cover the clinical and theoretical in these subjects:

- 1-Dentoalveolar surgery
  - 2- Suturing techniques of wounds in the head and neck region
  - 3-Different types of local anesthesia techniques (infiltration versus block)
  - 4-Incision and drainage of an abscess, extra- or intraoral
  - 5-Surgical and nonSurgical teeth extraction
  - 6-Surgical removal of impacted teeth
  - 7-Management of post-extraction bleedings and complications, including dry sockets, sharp bony edges,
  - 8-Prei prosthetics surgery diagnosis and surgical management
  - 9-Oro-antral fistula diagnosis and surgical management with different techniques
  - 10-Intraoral cyst enucleation
  - 11-Peri-apical surgery
  - 12-Odontogenic infection management
  - 13-Intraoral biopsy procedures, including needle aspiration, incisional biopsy, and excisional
  - 14-Closed reduction of facial bone fractures using arch-bar intermaxillary fixation and IMF Fix screws.
  - 15-Close reduction of TMJ dislocation
- Preparation for Part 1 Examination:
- Intensive revision course for 3 months in the following basic Medical Sciences in preparation for Part one which includes the followings:
- 1-General Physiology, biochemistry, oral physiology and Genetics
  - 2-Head and Neck Anatomy/basic general anatomy
  - d-Oral and Dental Anatomy
  - e-Oral Embryology
  - 3-General Pathology, Microbiology and oral pathology
  - 4-General Pharmacology with relevance to orofacial disorders.



## **Year two: Medical subjects Training program**

The Trainee performs off-service medical and surgical rotations. Under direct supervision.

The trainees rotate on different services including anesthesiology, internal medicine, general surgery, intensive care, and other electives as follows::

1-General Medicine	3 months
2-General Surgery	3months
3- Anesthesia including intensive care	2 months
3-Ear Nose and Throat	1 months
5-Plastic and Reconstructive Surgery	2 month
6-Orthopedic surgery.	1 month

### **Note:**

7-Neurosurgery	1month	4 <sup>rd</sup> Year
8-Emergency Medicine	1month	5 <sup>th</sup> year

## **1-Medicine Rotation (3 months)**

Goals and objectives:

A. Training in Art and Techniques of an accurate medical history taking and how to performe physical examination, diagnosis, treatment in patients with a variety of medical conditions

B. Train to develop experience in identifying and diagnostic tests, interpreting the results of these tests, and developing treatment strategies based on the interpreted results/diagnosis.

C. Learn and develop basic experience in anticoagulation management in anticoagulation management

D. Learning the body fluid management

E. Learning the principles of diabetic and cardiac management

Trainee duties and training in Medicine:

a) Full-time commitment to the rotation

b) First on-call duties

c) Recording admission history and performing physical examination, participating in the diagnosis and comprehensive management of the patients.

d) Participating in daily ward rounds, outpatients' consultation clinics and attending seminars in the department of medicine with main emphasis on:

Endocrine disorders with concentrations on

Diabetes

Thyroid, parathyroids disorders

Hematology disorders

Gastro intestinal disorders

Liver disorders

Chest disorders: bronchial asthma, chronic, Obstructive airway

TB, pneumonia.

Cardiology:

General principles of examination and diagnosis of the heart and cardiovascular system

Disorders such as Arrhythmia, Angina, Myocardial infraction.

Neurology:

General principles of examinations and diagnosis of neurological disorders cases with emphasis on:

Examinations of cranial nerves

Training evaluation and supervision are accomplished by the assigned program director of the Arab board of Medicine .

OneMonth medical oncology which includes (chemo/radio) + dermatology

### **General Surgery (3 months)**

Goals and Objectives:

a) Observe and experience in pre-operative evaluation of the surgery patient with emphasis on:

1-fluid and electrolyte balance

2- cardiovascular function

3- pulmonary care

4- surgical principles of different types of wound care

5-Observe assist in the techniques in the followings:

a-insertion chest tube.

b-central line

c-urinary catheter

Trainee duties and training:

1-Full-time commitment to the department of general surgery during this period with sharing the responsibilities with surgical staff

2-Performs medical history, and carries out physical examination in both routine general surgery cases.

3-Learn with the resident surgeon perioperative and post management of patients.

4-Attending as an assistant in surgery performed with surgical staff.

**Training evaluation and supervision is accomplished by the general surgery program director of the Arab board.**

### **Anesthesia and ICU Rotation (2 months) :**

Goals and objectives:

a-Full responsibility as an anesthesia resident including receiving training in:

1-pre-anesthesia patients' assessment

2- intubation and extubation techniques, and drug administration

3-Life parameters monitoring devices and equipment, resuscitative procedures, and postoperative assessment and management

b) Anesthesia emergencies through cardiopulmonary resuscitation (CPR), airway maintenance

1- Review basic pulmonary and cardiovascular physiology in dynamic situations

- 2- Drugs used in intravenous sedation
- 3- Learn standard induction and intubation techniques, with use of fibro-optics in cases of Temporomandibular joint ankylosis.

Trainees' duties and training:

- 1- Shares on-call duties on a regular basis with the other anesthesia residents
- 2-Intra-operative management of patient under general anesthetics
- 3-Be able to interpreting chest x-ray, electrocardiogram (ECG) for anesthesia purposes.

**Certificate by Arab board Anaesthesia department at the end of the two months training**

### **Otolaryngology ,Head and neck surgery (one month )**

Goals and Objectives:

- a) Diagnosis and surgical treatment of benign and malignant lesions of the head and neck, paranasal sinuses, and neck dissections.
- b) observe ,assist and learn how to do fiber optic nasopharyngeal and hypopharyngeal examination
- c) Observe and Perform elective and emergency tracheostomies and its care.
- d) involve in management of Emergency cases

Resident duties and training:

Full-time commitment to the rotation including first on call duties with ENT staff in charge.

Training evaluation and supervision is accomplished by Certificate of ENT and Head and Neck by Arab board in charge.

### **Plastic and reconstructive Surgery (two months)**

Goals and objectives:

- a) Management of soft tissue injuries of the face.
- b) Provide management of wound care and wound healing of head and neck area.
- c) diagnosis and treatment of congenital lesions of the lips, palate, and nasal area
- e) Involve in assessment and in re-anastomosis techniques
- f) Assist and develop skills in management of extremity injury and microsurgical techniques
- g) Observe ,assist and Perform cosmetic and aesthetic surgery procedures in the maxillofacial region, rhinoplasty, blepharoplasty, face lifting genioplasty, lipectomy, otoplasty, osmotic surgery, skin grafts ,free flaps and scar managements

Resident duties and training:

- a) Full-time commitment to the rotation.

b) Take first on-call duties with the full responsibilities under care of plastic surgery resident, directly .

**Training supervision and evaluation of end rotation is accomplished by the program director of the Arab board in plastic and reconstructive surgery.**

### **Orthopedic surgery (one month)**

Goals and objectives:

1- Perform a focused emergency physical examination of orthopedic cases received in emergency department with the residents of orthopedics

2- Learn how to Diagnose and treat various fractured cases

4- Observe and assist in Management of surgical and non surgical various orthopedic cases including arthroscopy of

6- Help and Perform and interpret radiographs, CT scan and MRI of orthopedic and joint disorders

The trainee duties and training program:

1- Full-time commitment to the rotation with orthopedic resident

2- follow up the cases operated with the orthopedic resident

Certificate of Orthopedic completion of training in the rotating hospital by the Arab board member of Orthopedic surgery in charge of the training.

### **Year 3- Oral and Maxillofacial surgery Subjects Training**

Goals and Objectives

Evaluate and manage preoperative patients with a broad range of surgical problems  
Manage patients with various medical and surgical problems, especially as they pertain to

Diagnosis and treatment of Oral and Maxillofacial cases of the following procedures, under direct supervision:

Procedures;

Dental implant, Zygomatic implant

Removal of salivary duct calculi, mucocoele excision

Pre-prosthetic surgery: Ridge reconstruction

Mandibular fracture open reduction and fixation with plate and screws

Maxillary fracture open reduction and fixation with plate and screws

Closed reduction of zygomatic fracture

### **Year 4 - Oral and Maxillofacial surgery training 11 months + One month Neurosurgery**

Goals and Objectives

a) Evaluate and manage patients with a broad range of surgical problems from the preoperative to the postoperative phases of illness

b) Manage surgical patients and perform procedures under direct or indirect supervision:

## Procedures

Extra-oral reduction and fixation of facial bone fractures

Excision of benign odontogenic and non-odontogenic tumors of the jaws

Orthognathic surgery (including the maxilla, mandible, and chin)

Distraction osteogenesis

Cleft palate and alveolar bone graft

Harvesting bone graft

Temporomandibular joint disorder (TMJ) non invasive surgery

c) involve in bedside and tutorials teaching the principles of patient management to junior residents.

e) Obtain informed consent from patients (this includes explaining the procedures to be performed as well as all the alternatives and potential risks and benefits)

## Neurosurgery (one month )

Goals and objectives:

a) learn how to do a neurological examination

b) Involve in assessment and management of acute neurology injuries including head injury

c) Learn how to read and interpret cervical spine fluid measurements, CT scan, MRI, and angiography and diagnose intra-cranial lesions

Resident duties and training:

a) Be first on-call and functions with a junior neurosurgery resident

c) Observe and learn principles of treatment of intracranial hemorrhage (subarachnoid, epidural, subdural)

Training supervision and evaluation of end rotation is accomplished by the program director of Arab board Specialty Certificate of Neurosurgery at the rotating hospital.

Intensive care unit Rotation (one month):

Goals and objectives:

a) Observe and learn how to manage Manage complex post-surgical care cases.

b) Develop skills in insertion of central venous access lines

d) Gain experience in the principles of management of the acutely-ill patient

Resident duties and training:

Involve in full duties with and as a junior surgery resident of neurosurgery.

**Training supervision and evaluation of end rotation is accomplished by the program director of Arab board Specialty Certificate of ICU at the rotating hospital.**

## **Years 5- Oral and Maxillofacial surgery 11months+ONE Month Emergency Medicine**

Goals and Objectives

a) Evaluate and manage patients with a broad range of surgical problems including preoperative and post-operative care.

b) Manage surgical patients and perform procedures under indirect supervision as possible:

Procedures:

Temporomandibular joint (TMJ) surgery:



condylar excision, fixation, and reconstruction  
Cleft lip or palate repair and alveolar bone graft

Upper or lower jaw resection

Maxillofacial pathology, benign and malignant tumors

Excision of salivary glands(superficial parotidectomy ,submandibular ,sublingual ,lip and palate)

c) Teach principles of patient management to junior residents

d) directly manage the care of critically-ill or injured patients

g) Have the level of knowledge and technical skills necessary to ensure successfully pass the final part of the Arab Board in OMS.

## **Emergency Medicine (one month )**

Goals and objectives:

1- Perform a focused emergency physical examination

2- Diagnose and treat medical and surgical emergencies

4- Observe and assist in Management of acutely ill patients

6- Help and Perform and interpret laboratory data and electrocardiograms with medical resident in charge.

The trainee duties and training program:

1- Full-time commitment to the rotation with medical resident

2- Management of medical complications, including acute asthma cases and diabetic ketoacidosis.

Certificate of Emergency Medicine in the rotating hospital by the Arab board member in charge of the training.

## **Sugessted Text Books**

Maxillofacial Trauma & reconstruction- Peter Ward booth  
Maxillofacial Injuries – Row & Williams Vol.1 & 2  
Text book of Oral & Maxillofacial Surgery – Laskin Vol. 1 & 2  
Text book of Oral & Maxillofacial Surgery – Peter Ward booth Vol.1 & 2  
Principles of Oral & Maxillofacial Surgery – Peterson Vol. 1 & 2  
Maxillofacial Trauma Fonseca Vol. 1 &2  
Maxillofacial Infections – Topazian  
Oral Cancer- McGregor  
Minor Oral Surgery – G.L. Howe  
Extraction of teeth- G.I.Howe  
Local anesthesia – Malamed  
Distraction Osteogenesis- McCarthy  
Controversies in Oral & Maxillofacial Surgery  
Plastic Surgery- Mathes Vol. 1 to 5  
Oral Oncology – J.P.Jain  
Text book of Oral & Maxillofacial Surgery – Fonseca Vol. 1 to 7  
Text book of Preprosthetic Surgery – Starshack  
Dentofacial deformities – Bell Vol.1 & 3  
Facial esthetics & Dentofacial deformities – Epker Vol 1 to 4  
Principles of Oral & Maxillofacial Surgery – Moore  
Complications of Oral & Maxillofacial Surgery – Kaban  
Current advances in Oral & Maxillofacial Surgery – Irby & Shellon

## **Ssuggested Periodicals**

1-International Journal of Oral & Maxillofacial Surgery  
2-Journal of Cranio Maxillofacial Surgery  
3-British Journal of Oral & Maxillofacial Surgery  
3-Oral medicine, Oral surgery, Oral pathology, Oral Radiology & Endodontics  
4- Plastic & Reconstructive Surgery  
5-Journal of American Dental Association  
6-Australian Dental Journal  
7-Oral Oncology  
8-British Dental Journal