

# Advanced Training Program in Oral and Maxillofacial Surgery

## Rotation Learning Objectives

### Oral & Maxillofacial Surgery

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. outpatient oral and maxillofacial surgery procedures including the management of simple and surgical extractions, the placement of dental implants, the removal of impacted teeth and the management of oral pathologies under local anesthesia, intravenous sedation and outpatient anesthesia
3. management of patients within the operating room
4. airway management under general anesthesia
5. full scope (trauma, pathology, orthognathic, reconstructive and cosmetic, other) oral and maxillofacial surgery experience in the operating room
6. management of the multi-system trauma patient at a Level I Trauma center

#### **Duties**

First through fourth years when not on an off-service rotation. The Chief Resident will bear the responsibility of managing all things related to the clinic schedule, OR schedule, core curriculum and administrative tasks. All residents take call and respond to the emergency room and the surgical intensive care units for facial trauma and oral and maxillofacial emergencies. The residents are involved in patient work-ups and patient management during their hospital stay. They participate at conferences on a regular basis.

### Anesthesia

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. evaluation and determination of anesthetic risk
3. evaluation and treatment of anesthesia complications or emergencies
4. manage pulmonary and cardiovascular physiology in dynamic situations
5. clinical effects of pharmacologic agents utilized in anesthesia and sedation management
6. rapid sequence induction as well as standard induction
7. intubation techniques and supra-glottic airways
8. general anesthesia and monitored anesthesia care
9. extubation criteria
10. management of pediatric patients in the normal course of anesthesia delivery
11. intravenous access

*To gain exposure to:*

1. regional anesthesia
2. invasive monitoring

#### **Duties**

In order to meet the objectives of the rotation, the residents spend five months on the anesthesia service (two months during the first year, three months during the third year). The oral and maxillofacial surgery resident, after a suitable period of supervision as determined by the anesthesia faculty, is assigned their own room and given the responsibility for pre-operative patient evaluation and inter-operative management of patient general anesthetic. The responsibilities of the oral and maxillofacial surgery resident on the anesthesia rotation are equivalent with those of an anesthesia resident.

### Medicine

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. inpatient management of general internal medicine patients

3. physical diagnosis and the use of other diagnostic tools, to include laboratory values, radiographs, EKGs etc.

#### **Duties**

In order to meet the objectives of the rotation, the residents spend two months on the inpatient internal medicine service. The responsibilities of the oral and maxillofacial surgery resident during the medicine rotation are equivalent with those of an intern on the medicine service.

### **Cardiology**

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. inpatient management of cardiology patients
3. physical diagnosis and the use of other diagnostic tools, to include laboratory values, radiographs, EKGs etc.

#### **Duties**

In order to meet the objectives of the rotation, the residents spend one month on the cardiology service. The responsibilities of the oral and maxillofacial surgery resident during the cardiology rotation are equivalent with those of an intern on the cardiology service.

### **Pediatric Medicine**

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. inpatient management of pediatric patients
3. physical diagnosis and the use of other diagnostic tools, to include laboratory values, radiographs, EKGs etc.

#### **Duties**

In order to meet the objectives of the rotation, the residents spend one month on the pediatric medicine service. The responsibilities of the oral and maxillofacial surgery resident during the pediatric medicine rotation are equivalent with those of an intern on the pediatric medicine service.

### **Emergency Medicine**

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. assessment and treatment of acutely ill children and adults
3. assessment and management of acute injuries of hard and soft tissues

#### **Duties**

In order to meet the objectives of the rotation, the residents spend one month on the adult emergency medicine service and one month on the pediatric emergency service. The responsibilities of the oral and maxillofacial surgery resident during the emergency medicine rotation are equivalent with those of an intern on the emergency medicine service.

### **General Surgery**

#### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. pre-operative evaluation of the surgical patient
3. pre-operative, inter-operative, post-operative patient care including fluid and electrolytes status, pulmonary care, cardiovascular function and wound care
4. application of surgical principles of dealing with wound care, wound healing, and wound infection
5. the insertion of central venous access lines, insertion and utilization of chest tubes and general surgical skills and techniques

**Duties**

The residents rotate as surgery residents for two months of the second year. They are scheduled in the general surgery rotation so that when present on-service, they are given the responsibilities of the general surgery resident, including covering trauma call. The resident performs admission history and physical examinations and assists in the management of all team duties. The resident teaches medical students and takes call. The resident plays a major role in the perioperative management of the team's patients and participates in operating room activity.

**Neurosurgery****Objectives**

*To demonstrate competency in:*

1. admitting to service
2. recognition in the early management of acute neurology injury
3. interpretation of cervical spine films
4. interpretation of other imaging methods
5. management of critically ill patients within the neurosurgical intensive care unit

**Duties**

The oral and maxillofacial surgery resident functions as a junior neurosurgery resident in the two month rotation. They assume a significant level of responsibility with respect to direction of activity in the neurosurgery intensive care unit including patient management under the supervision of the neurosurgery faculty. The oral and maxillofacial surgery resident takes call on neurosurgery service and answers consultation requests.

**Surgical Intensive Care Unit (SICU)****Objectives**

*To demonstrate competency in:*

1. admitting to service
2. management of the complex surgical care patient
3. placement and management of central venous access lines and tracheostomies
4. ventilator management
5. management of the acute trauma patient

**Duties**

The oral and maxillofacial surgery resident functions as a junior surgery resident in the two month rotation. They assume a significant level of responsibility in the surgical intensive care unit including patient management under the supervision of the surgery faculty.

**Otolaryngology/Head and Neck Surgery (ENT)****Objectives**

*To demonstrate competency in:*

1. admitting to service
2. management of general otolaryngology/ head & neck surgery patients
3. management of head and neck oncology
4. management of head and neck trauma patients from otolaryngologist's perspective

**Duties**

The oral and maxillofacial surgery residents assume the responsibilities of a resident on rotation on the ENT service for one month during the third year. They will be directly responsible to the surgery attending faculty. The oral and maxillofacial surgery resident will take call on the ENT service and respond to the emergency room and the surgical intensive care units. The oral and maxillofacial surgery resident will be involved in patient work-ups and patient management of ENT service patients during their hospital stay.

## Plastic Surgery

### **Objectives**

*To demonstrate competency in:*

1. admitting to service
2. management of general plastic surgery patients
3. management of wound care and wound healing
4. management of head and neck trauma patients from a plastic surgeons perspective

*To gain exposure to:*

1. microvascular techniques

### **Duties**

The oral and maxillofacial surgery residents assume the responsibilities of a plastic surgery resident rotating on the plastic surgery service for one month during the third year. They will be directly responsible to the plastic surgery attending faculty. The oral and maxillofacial surgery resident will take call on the plastic surgery service and respond to the emergency room and the surgical intensive care units. The oral and maxillofacial surgery resident will be involved in patient work ups and patient management of patients on the plastic surgery service during their hospital stay.

## Didactic Curriculum Information

The didactic curriculum provides a standardized curriculum covering the fundamental concepts of oral and maxillofacial surgery and medicine. While on off-service residents attend the didactic offerings of their host service.

### *Format*

The didactic course covers the subjects tested in Oral and Maxillofacial Assessment Tool (OMSSAT) and the written qualifying exam of the American Board of Oral and Maxillofacial Surgery (ABOMS). A quality assurance component is incorporated within the course. The curriculum is designed for the maximum benefit of the third and fourth year residents to prepare them for the written qualifying exam of the ABOMS.

### *Course Content*

Each topic is presented in a case-based interactive format. The content includes basic and advanced concepts of surgery and medicine. Lectures are presented by faculty, individuals from other disciplines when appropriate, and occasionally by residents.

### *Topics*

Orthognathic Surgery	Surgical Anatomy
Pharmacology/Microbiology/Applied Medical Sciences	Practice Management
Dental Implants	Cosmetic Surgery
Pathology Including TMJ/Facial Pain	Oncology/Reconstruction
Trauma	Cleft/Craniofacial
Medicine/Physiology/Anesthesia	Dentoalveolar

### *Certifications*

ACLS/ATLS/PALS: These courses are completed in the first or second year. Recertification is carried out as required for the duration of the program.