

CERTIFICATE OF  
HIGHER SPECIALIZATION  
IN  
MEDICINE (CHSM)

**Otolaryngology**

**SYLLABUS OF**  
**CERTIFICATE OF HIGHER SPECIALIZATION IN**  
**MEDICINE (CHSM) IN OTOLARYNGOLOGY**

Plan No. 5/93/05/5

**First : General Regulations:**

- a) This plan conforms to the valid regulation of program of graduate studies.
- b) The Bachelor degree in medicine & general surgery is the prerequisite for this program

**Second: Special Regulations:**

None

**Third:**

The program consists of 5 years as follows:

- A) Training and teaching program:

<b>Year</b>	<b>Program</b>
<b><u>First Year</u></b>	<p><b>a) <u>General Surgery ( 6 months) duration:</u></b> 1-Emergency Patient Care (1) 2-Evening Case Review 3-Bed side Patient Care (1) 4-Introduction to Surgical Skills 5-Basic Principles Seminar 6-Surgical Case Seminar</p> <p><b>b) <u>Plastic surgery ( 3 months duration):</u></b> 1-In-patient care 2-Evening care review 3-Plastic surgical skills 4-Ear and nasal plastic surgical skills</p> <p><b>c) <u>Neurosurgery (3 months duration):</u></b> 1-In-patient care 2-Evening care review 3-neurosurgical operative skills</p>

<b>Year</b>	<b>Program</b>
<b><u>Second Year:</u></b>	<p><b><u>Otorhinolaryngology(1):</u></b></p> <p>1- Morning Report (1) / under supervision of 3<sup>rd</sup> year resident.</p> <p>2- In-Patient care (1) / under supervision of 3<sup>rd</sup> year resident.</p> <p>3-Out-Patient care (1) / under supervision of 3<sup>rd</sup> year resident .</p> <p>4-Surgical skills in ENT (1) – under supervision of most senior resident.</p> <p>5-Principles of hearing and speech( introduction)- under supervision of medical odiology.</p> <p>6-Anatomy / under supervision of 3<sup>rd</sup> year resident.</p> <p>7-Physiology / under supervision of 3<sup>rd</sup> year resident.</p>
<b><u>Third Year:</u></b>	<p><b><u>Otorhinolaryngology(2):</u></b></p> <p>1-Morning Report (2) / under supervision of 4<sup>th</sup> year resident.</p> <p>2- In-Patient care (2) / under supervision of 4<sup>th</sup> year resident.</p> <p>3- Out-Patient care (2) / under supervision of 4<sup>th</sup> year resident.</p> <p>4- Surgical skills in ENT (2) / under supervision of most sinior &amp; consultant.</p> <p>5-Otolaryngology science (1) / under supervision of 4<sup>th</sup> year resident.</p> <p>6-Audiology &amp; Speech (1) - under supervision of medical odilogist.</p>

<p><b><u>Fourth Year:</u></b></p>	<p><b><u>Otorhinolaryngology(3):</u></b>  <b>1-Morning Report (3) / under supervision of most senior &amp; consultant.</b>  <b>2-In-Patient care (3) / under supervision of most senior &amp; consultant.</b>  <b>3-Out-Patient care (3) / under supervision of most senior &amp; consultant.</b>  <b>4-Surgical skills in ENT (3) / under supervision of most senior &amp; consultant.</b>  <b>5- Otolaryngology Science (2) / under supervision of most senior &amp; consultant.</b>  <b>6-Temporal Bone Lab. / under supervision of most senior &amp; consultant.</b>  <b>7-Audiology &amp; Speech (2) - under supervision of medical audiologist.</b>  <b>8- Research methodology/ under supervision of most senior &amp; consultant.</b></p>
<p><b><u>Fifth Year</u></b></p>	<p><b><u>Otorhinolaryngology(4):</u></b>  <b>1-Morning Report (4) / under supervision of consultant.)</b>  <b>2-In-patient care (4) ) / under supervision of consultant.)</b>  <b>3-Out-patient care (4) ) / under supervision of consultant.)</b>  <b>4-Surgical skills in ENT (4) ) / under supervision of consultant.)</b>  <b>5-Otolaryngology science (4) ) / under supervision of consultant.</b>  <b>6-Temporal bone lab) / under supervision of consultant.)</b>  <b>7-Research Project) / under supervision of consultant.)</b>  <b>8-Vestibular Lab. ) / under supervision of medical audiologist.)</b></p>

B) Full comprehensive examination at the end of the fifth year.

C) The enclosed training details & duration in each department for each training year are a fully integrated program.

**Fourth:** Description of the program:

## **FIRST YEAR TRAINING:**

### **A) General Ssurgery:**

<b><u>COURSE NAME</u></b>	<b><u>DURATION</u></b>
1- Emergency Pateint Care (1)	(1) hour twice weekly for (40) weeks
2- Evening Case Review	(1) hour/call for two calls/week
3- Bed Side Patient Care (1)	(2) hours/round for (3) times /week
4-Introduction to Surgical Skills	-----
5-Basic Principles Seminar	One meeting per week
6-Surgical Seminar	One meeting (seminar hour)/week

#### **1- Emergency Patient Care (Morning Case Reviwe)(1):**

The Chairman of the department meets with the students on call the night before to discuss emergency admission. The student is expected to present the case and put forward a diagnosis and a plan on management. The student is expected to defend his diagnosis and rationalize his planned management and to have reviewed relevant litreature about the presented case.

**Duration:**

(1) hour twice weekly

#### **2- Evening Case Review " Evening Closing Rounds":**

Students are required to report on problematic cases in the ward, when on call and to discuss them with the senior graduate student & teaching staff member on call.

**Duration:**

(1) hour/call for two calls/week

#### **3- Bed Side Patient Care (1) " Ward Rounds":**

The student makes round on the patients assigned to him. During the round, the patient history, physical examination, general assessment, diagnosis and plan of management are discussed by the teaching staff member who is caring for the patient. The students are expected to consult relevant literature before the rounds.

**Duration:**

(2) hours/round for (3) times/week.

#### **4- Introduction to Surgincal Operative Skills**

Student are introduced to the operation room in which live cases are being handled. The student assists to surgeon in carying out the operation.

#### **5- Basic Principles of Surgery Seminar:**

The student is required to prepare and presents at least four presentations per semester for a total of eight presentation per year on problem of issues dealing with basic principles of surgery. Topics are assigned by the department and presentations are attended by all graduated students and discussion is directed by the assigned teaching staff member.

**One Meeting per week**

## **6- Surgical Case Presentation Seminar :**

The student is required to present in a meeting at least four surgical cases per semester for two semesters ( total of 8 presentation /year) . The meeting is attended by all graduate students in the department of general surgery and the discussion is directed by the assigned teaching staff member and is directed to preoperative diagnosis investigations applied therapeutic measures and prognosis.

### **Duration:**

( One meeting ( seminar hour)/week).

### **B) Plastic surgery ( 3 months duration):**

- 1-In-patient care
- 2-Evening care review
- 3-Plastic surgical skills
- 4-Ear and nasal plastic surgical skills

### **C) Neurosurgery (3 months duration):**

- 1-In-patient care
- 2-Evening care review
- 3-neurosurgical operative skills

## **SECOND YEAR TRAINING :**

### **Otolaryngology (1)**

#### **Subjects:**

- 1- Morning Report (1)**
- 2- In-Patient care (1)**
- 3-Out-Patient care (1)**
- 4-Surgical skills in ENT (1)**
- 5-Anatomy**
- 6-Physiology**
- 8-Principles of hearing and speech**

#### **1- Morning Report for emergency cases (2):**

This includes a full team discussion of the emergency cases being admitted the night before with the head of the section highlighting the diagnosis & management.

#### **2- In-Patients Clinical care (1):**

This includes a comprehensive study of the in-patient cases by the trainee to be discussed with the older trainees & the consultant in charge.

#### **3-Out-Patients Clinical care (1) :**

This includes a discussion & a review of the diagnosis, investigations & management of the OPD cases between the junior trainee and the older staff including the consultant in charge.

#### **4-Surgical skills in ENT (1) :**

The trainee is asked to perform some minor operations & to assist in others as:

- BAWO, removal of F.B.,(nose), treatment of epistaxis
- Correction of the nasal fractures
- Incision of septal hematoma, and abscess
- Tonsillectomy
- Adenoidectomy
- Incision of Quinsy

#### **5- Anatomy**

- 1- Includes anatomy of the head neck , thorax & CNS in cooperation ( or coordination) with the department of anatomy at the Faculty of Medicine.
- 2- Includes anatomy of the ear, nose, pharynx, larynx & esophagus.

#### **1- Physiologoy**

- 1- This includes general physiology as the circulation, the respiration physiology, GIT, the body fluids and the endocrine system in coordination with the department of physiology.

2-Includes physiology of hearing & balance, physics of sound, & physiology of the nose, pharynx & larynx.

#### **7- Principles of hearing and speech**

Includes the basics of hearing and speech for the ENT doctors and simple clinical testing

## **THIRD YEAR TRAINING :**

### **Otolaryngology (1)**

#### **Subjects :**

- 1-Morning Report (2)
- 2-In-Patient care (2)
- 3-Out-Patient care (2)
- 4- Surgical skills in ENT (2)
- 5-Otolaryngology science (1)
- 6-Audiology & speech (1)

#### **1- Morning Report for emergency cases (3):**

This includes a full team discussion of the emergency cases being admitted the night before with the head of the section highlighting the diagnosis & management.

#### **2-In-Patients Clinical care (2):**

This includes a comprehensive study of the in-patient cases by the trainee to be discussed with the older trainees & the consultant in charge.

#### **3-Out-Patients Clinical care (2) :**

This includes a discussion & a review of the diagnosis, investigations & management of the OPD cases between the junior trainee and the older staff including the consultant in charge.

#### **4-Surgical Operative skills in ENT (2) :**

In addition to what has been taught in the 2<sup>nd</sup> year, the student starts performing some routine operations as :

- Suction clearance of the ear
- Myringotomy with /without Grommets
- Suture of wounds in the pin, incision of hematoma & abscess
- Nasal polypectomy
- Septoplasty
- Tracheostomy

#### **5-Otolaryngology science (2):**

This includes ENT & tracheobronchial tree pathology.

#### **6- Audiology & speech (1)**

This includes basic hearing tests & assessment of the hearing impaired & dizzy patients, as well as those with speech defects & their rehabilitation .

## **FOURTH YEAR TRAINING :**

### **Otolaryngology (3)**

#### **Subjects :**

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| <b>1-Morning Report (3).</b>         | <b>2- In-Patient care (3)</b>       |
| <b>3-Out-Patient care (3).</b>       | <b>4-Surgical skills in ENT (3)</b> |
| <b>5-Otolaryngology Science (2).</b> | <b>6-Temporal bone lab.</b>         |
| <b>7-Audiology &amp; Speech (2).</b> | <b>8- Research methodology</b>      |

#### **1- Morning Report for emergency cases (4):**

This includes a full team discussion of the emergency cases being admitted the night before with the head of the section highlighting the diagnosis & management.

#### **2- In-patients care (3):**

In addition to his (her) own patients, the trainee supervise the care of patients assigned to the junior students.

#### **3-Out- patient care (3) :**

OPD. This include examination & management of these patient together with supervision of the younger students at the

#### **4-Surgical skills in ENT (3):**

Some advanced operations are expected to be performed in addition to the routine ones as :

- Myringoplasty
- Cautery of inferior turbinate / submucous diathermy.
- Coldwell-Luc operation
- Intranasal antrostomy
- Removal of F.B. in the throat
- Laryngoscopy
- Mirco-laryngoscopy & biobsy

#### **5-Otolaryngology Science (2) :**

Includes ear, Pharynx & Esophagus pathology.

#### **6-Temporal bone lab. :**

An average of four temporal bones are dissected in this lab. Where the trainee is expected to perform some advanced ear surgery.

#### **7-Audiology & Speech (2) :**

This includes an advanced diagnostic procedures as tests for localization of the lesion & specialized subjectived hearing tests.

#### **8- Research Methodology:**

Includes methodes of research, proposals, designs, collecion of data, staistical analysis, writing of a research article.

## **FIFTH YEAR TRAINING:**

### **Otolaryngology (4)**

#### **Subjects :**

- 1- Morning Report (4)**
- 2-In-patient care (4)**
- 3-Out-patient care (4)**
- 4-Surgical skills in ENT (4)**
- 5-Otolaryngology science (3)**
- 6- Vestibular Lab**
- 7-Temporal bone lab**
- 8-Research Project**

#### **1- Morning Report for emergency cases (4) :**

This includes a full team discussion of the emergency cases being admitted the night before with the head of the section highlighting the diagnosis & management.

#### **2- In patient care (4) :**

The trainee supervise care of patients assign the junior students

#### **3- Out-patient Care (4)**

This include examinatin and management of these patient together with supervision of the younger studen .

#### **4- Surgical skills in ENT (4):**

Some advanced operation to be performed in addition to the routine ones as:

- Mastoidectomy
- Myringoplasty
- Septoplasty
- Largnoscopy & microlaryngoscopy
- Laser laryngeal surgery
- UPPP by laser

#### **5- Otolaryngology Science (3)**

Include ear, pharynx osteophagus pathology.

#### **6- Vestibular Lab.:**

Routine and specialized vestibular testing and how to approach the dizzy patient.

#### **7-Temporal bone lab:**

To perform most all ear procedure under consultnat superivision.

#### **8-Research Project:**

Conduct and write a research paper in the field of otorhinolaryngology and related branches.

