

University : AL-AZHAR university

Faculty: Faculty of Medicine

Department: ENT Department

Course Specification

1. Course Data		
Course Code: 700-ENT-Dp	Course Title: Diploma degree in otorhinolaryngology	Academic Year / level 2014-2015
Specialization: ENT	Single program, two parts 1 st . and 2nd	

2. Aims of the course	<p>By the end of the course, the post-graduate physician should have:</p> <p>2.1 Developed a high level of scientific knowledge (basic and advanced) about otorhinolaryngological problems and diseases regarding aetiology, clinical picture, investigations, D.D and management.</p> <p>2.2 Developing professional skills and training in relation to clinical diagnosis, investigations (lab., imaging, endoscopy) and management (medical or surgical) of most of otorhinolaryngological problems (acute, chronic and emergencies).</p> <p>2.3 Developing skills in relation to medical researches and continuous medical education and encouraging scientific thinking in otorhinolaryngological field.</p> <p>2.4 Positive attitude that are important for physician to communicate with patients, colleagues and co-workers in the medical field.</p> <p><i>All these programs aim to provide the communicating with highly qualified physicians and high quality otorhinolaryngology services that can deal effectively as humanely with most of otorhinolaryngological problems and promote the health of the people.</i></p>
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3 -Intended Learning Outcome (ILOs)

A. Knowledge and Understanding:

- A.1 Mention the normal structure and function of the human head and neck on the macro and micro levels.
- A.2 understand in the normal growth and development of the human head and neck.
- A.3 list the abnormal structure, function, growth and development of human Ear, Nose and Throat.
- A.4 Understand the natural history of otorhinolaryngology diseases.
- A.5 Understand the causation of otorhinolaryngology diseases.
- A.6 Enumerate methods of otorhinolaryngology health and preventing their illness.
- A.7 List the clinical picture and differential diagnosis of otorhinolaryngology illness.
- A.8 Enumerate in the common diagnostic and laboratory techniques necessary to establish diagnosis of otorhinolaryngology illness.
- A.9 Describe the various therapeutic methods/alternatives used used for otorhinolaryngology diseases.
- A.10 Understand scientific developments in the field of otorhinolaryngology.
- A.11 Understand the mutual influence between professional practice and it's impact on the environment.
- A.12 Mention the ethical and legal principles of professional practice in the field of otorhinolaryngology.
- A.13 Know the principles and fundamentals pf quality assurance of professional practice in the field of otorhinolaryngology.

B. Intellectual Skills:

- B.1 Interpret, analyze and evaluate data acquired through history taking to reach a provisional diagnosis for otorhinolaryngology problems

	<p>B.2 Select from different diagnostic alternatives the ones that help reaching a final diagnosis for otorhinolaryngology problems</p> <p>B.3 Link between knowledge for professional problems' solving.</p> <p>B.4 Conduct a research study and/or writing a scientific study on a research problem.</p> <p>B.5 Assess risk in professional practices in the field of otorhinolaryngology.</p> <p>B.6 Plan to improve performance in the field of otorhinolaryngology.</p> <p>B.7 Identify otorhinolaryngology problems and find solutions.</p> <p>B.8 Analyze researches and issues related to the otorhinolaryngology.</p>
<p>C. Professional and practical Skills:</p>	<p>C.1 Master the basic and modern professional skills in the area of otorhinolaryngology.</p> <p>C.2 Write and Evaluate medical reports.</p> <p>C.3 Assess methods and tools existing in the area of otorhinolaryngology.</p>
<p>D. General and transferable Skills:</p>	<p>D.1 Communicate effectively by all types of effective communication.</p> <p>D.2 Use information technology to serve the development of professional practice.</p> <p>D.3 Assess himself and identify his personal needs.</p> <p>D.4 Use different sources to obtain information and knowledge.</p> <p>D.5 Develop rules and indicators for assessing the performance of others.</p> <p>D.6 Work in a team, and team's leadership in various professional context.</p> <p>D.7 Manage time effectively.</p> <p>D.8 Learn him self continuously.</p>

4 - Program structure

Duration : 3 years (36 month).

1- Clinical & operative skills

The basic clinical and operative skills should be demonstrated throughout the residency period in the following chronological order:

A- The first 6 months:

- clinical ORL. examination
- Pre.& postoperative patient care
- management of ORL emergencies

*Performed procedures (under strict supervision):

- Emergency procedures
- Adeno-tonsillectomy
- Diagnostic Endoscopies
- Myringotomy and tube insertion

A- 7-12 months:

- Diagnostic procedure : Audiology, pathology and Radiology
- Performed procedure
- the first 6 months procedures (unsupervised)
- Intra-nasal surgery eg. septoplasty and turbinectomy (supervised)
- 2nd assistant in H&N surgery
- 1st assistant in all other surgeries

A- 13-18 months:

performed procedures:

- The first 12 months procedure 19-24 months
- Myringoplasty (supervised)
- Cortical mastoidectomy (supervised)
- Diagnostic Endoscopy & biopsy (supervised)

A- 19-24 months:

- Performed procedures:
- 0-18 months, unsupervised, ear surgery attended by senior staff
- 1st assistant in H&N surgery

A- 25-30 months:

- performed procedures:
- 0-24, unsupervised, unattended
- Minor H&N procedure
- Microlaryngosurgery (supervised)
- External nasal procedures eg. Lat. rhinotomy (supervised)

A- 31-36 months:

- Performed procedures:
- 0-30 months, unsupervised
- Assistant in Other peripheral procedures: LASER, FESS, plastic surgery... etc

Educational and academic activities

During the residency program, the resident must attend the following

A- Rounds & Lectures:

- 30 or more clinical round /year
- grand rounds/ year
- Thesis discussion/ year
- national or international conferences or meetings (in the 3 years)

A- Special courses:

- Temporal bone dissection course (within the 1st. year)
- Endonasal Endoscopic Surgery course (within 3rd. year)
- Other peripheral courses (not mandatory)
- Head and neck surgery
- LASER applications

Assessment of performance :

This section describes the criteria for acceptable performance. Performance assessment should be carried out periodically, every 6 months, and at the end of the residency program. This could be enabled by designing a Resident's card including the operative and academic activities. The resident should demonstrate a minimum requisite or satisfactory operative performance(supervised by a senior faculty member) in the following procedures :

- myringotomy & tube insertion: 3 cases
- Temporal bone dissection (all basic procedure): 3 cases
- Myringoplasty: 3 cases
- Tympanoplasty: 3 cases
- Intranasal surgery: 8 cases
- Diagnostic Endoscopy & Biopsy (different sites): 5 cases
- Microlaryngosurgery: 3 cases

The resident card will also include the minimum requisite academic activities mentioned in the above section.

implementing the program:

The final, and most important, section of the program is how to implement it. We recommended the following:

1. A program co-ordinator (a faculty member) should be assigned by the department. His job will be to assure that the program is conducted to its full potential and to facilitate its optimal execution by co-ordination between the residents, the head of the units and the head of the department.
2. The program co-ordinator should have an assigned assistant

	<p>co-ordinator (a faculty member) in each unit to supervise the resident clinical and operative work and to ensure that the program is equally implemented by the different units.</p> <ol style="list-style-type: none"> 3. Evaluation of the program will be carried out periodically every 6 months and the resident card evaluated and signed by the assistant co-ordinator of the resident's unit, the program co-ordinator and the head of the department. 4. Every new residents will be assigned to assigned to a senior resident or assistant lecturer for an orientation program for 2 weeks at the start of the residency. The aim of this orientation program is to instruct the resident on all his clinical as well as his administrative duties and to orient him with the department's and hospital's structures and policies. 5. All junior residents in their first 6 months should attend their Emergency shifts with a senior 2nd or 3rd year resident. 6. in case that the resident has to attend military service his 36 months program will be cut by 14 months, reassigned his training program by cutting 2 months of each of each of the first 6 months rotations and 4 months of the last 6 months period.
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<p>5-Course content</p>	<p><u>First part</u></p> <p>1- Anatomy</p> <table border="1"> <thead> <tr> <th>ser</th> <th>topic</th> <th>Lec. hrs</th> <th>Topic weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Anatomy of head and neck: osteology, soft tissue anatomy and neuroanatomy of cranial nerves.</i></td> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td><i>micro-anatomy and histology of the ear, nose and larynx.</i></td> <td>1</td> <td></td> </tr> <tr> <td>3</td> <td><i>Emberiology: General and special (development of head and neck).</i></td> <td>1</td> <td></td> </tr> </tbody> </table>	ser	topic	Lec. hrs	Topic weight	1	<i>Anatomy of head and neck: osteology, soft tissue anatomy and neuroanatomy of cranial nerves.</i>	1		2	<i>micro-anatomy and histology of the ear, nose and larynx.</i>	1		3	<i>Emberiology: General and special (development of head and neck).</i>	1	
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2- physiology:

ser	topic	Lec. hrs	Topic weight
1	blood	1	
2	nerve and muscle	1	
3	Autonomic nervous system	1	
4	Physiology of hearing and equilibrium	1	
5	nasal physiology	1	

3- pathology:

ser	topic	Lec. hrs	Topic weight
1	General: inflammation, degeneration and regeneration	1	
2	Granuloma	1	
3	Wound healing	1	
4	Neoplasms	1	
5	Special pathology of the ear, nose and larynx	1	

4- bacteriology:

ser	topic	Lec. hrs	Topic weight
1	immunology	1	
2	Bacteriology and virology	1	
3	Commensals of ear, nose and throat	1	
4	Methods of diagnosis	1	

Second part:

1- Ear:

ser	topic	Lec. hrs	Topic weight
1	examination of the ear	1	
2	Radiology of the ear	1	
3	Disorders of the external ear	1	
4	Congenital and traumatic conditions of the middle ear cleft	2	
5	Conductive deafness	2	
6	Acute inflammation of the middle ear cleft	2	
7	Non-suppurative otitis media	2	
8	Chronic suppurative otitis media	2	
9	Management of chronic suppurative otitis	2	

		media		
	10	Complications of infections of middle ear	2	
	11	Tumours of the middle ear cleft and temporal bone	2	
	12	Diseases of the otic capsule	2	
	13	The deaf child	2	
	14	Traumatic lesions of the inner ear	2	
	15	Inflammatory lesions of the vestibular and auditory nerve	2	
	16	vestibular neuroma	1	
	17	Ototoxicity	1	
	18	Presbycusis	1	
	19	Vascular lesion of the inner ear	1	
	20	Diagnosis and management of sudden and	1	
	21	fluctuant sensorineural hearing loss		
	22	Meniere's disease	1	
	23	Vertigo	1	
	24	Facial paralysis	2	
	25	Rehabilitation of adults with acquired hearing loss	1	
	26	The cochlear implant	1	
	27	Implantable hearing aid	1	

2- Nose:

ser	topic	Lec. hrs	Topic weight
1	Examination of the nose	1	
2	Radiology of the nose	1	
3	Injuries of the facial skeleton	1	
4	Cosmetic surgery of the nose	1	
5	Congenital diseases of the nose	2	
6	The nasal septum	1	
7	Epistaxis	2	
8	Acute and chronic inflammations of the nasal cavity and para nasal sinuses	2	
9	Complications of acute and chronic sinusitis	2	
10	Vasomotor rhinitis	1	
11	Allergic and non-allergic rhinitis	1	
12	Nasal polyposis	2	
13	Granulomas of the nose	2	
14	Tumors of the nose and sinuses	2	
15	Facial pain	2	
16	Trans-nasal pituitary surgery	2	
17	surgery of pterygo-paltine fossa	2	
18	FESS/ Nasal surgery	2	

3- Throat:

ser	topic	Lec. hrs	Topic weight
1	Methods of examination of the mouth and pharynx	1	
2	Diseases of the mouth	1	
3	diseases of the salivary glands	1	
4	Pharyngeal lesions associated with general diseases	1	
5	Diseases of the tonsils and adenoid	1	
6	Tumors of the pharynx	1	
7	Hypo-pharyngeal diverticulum (pharyngeal pouch)	1	
8	Oesophageal conditions in the practice of ear, nose and throat surgery	1	
9	Methods of examining the larynx and trachea-bronchial tree	1	
10	Congenital diseases of the larynx and pharynx	1	
11	Neurological affections of larynx and pharynx	1	
12	Disorders of speech	1	
13	Tracheostomy	1	
14	Micro-laryngeal surgery	1	

	<p>4- Drugs used in ENT</p> <table border="1"> <thead> <tr> <th>ser</th> <th>topic</th> <th>Lec. hrs</th> <th>Topic weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Antihistaminic</td> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td>Nasal vasoconstrictors</td> <td>1</td> <td></td> </tr> <tr> <td>3</td> <td>Local anaesthetics</td> <td>1</td> <td></td> </tr> <tr> <td>4</td> <td>Cortico steroid</td> <td>1</td> <td></td> </tr> <tr> <td>5</td> <td>Cytotoxic agents</td> <td>1</td> <td></td> </tr> <tr> <td>6</td> <td>Antibiotics</td> <td>1</td> <td></td> </tr> <tr> <td>7</td> <td>Radioactive isotopes</td> <td>1</td> <td></td> </tr> <tr> <td>8</td> <td>Anti fungal agents</td> <td>1</td> <td></td> </tr> </tbody> </table>	ser	topic	Lec. hrs	Topic weight	1	Antihistaminic	1		2	Nasal vasoconstrictors	1		3	Local anaesthetics	1		4	Cortico steroid	1		5	Cytotoxic agents	1		6	Antibiotics	1		7	Radioactive isotopes	1		8	Anti fungal agents	1	
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<p>6-Teaching and Learning Methods</p>	<p>The following learning methods are to be used for the teaching of the postgraduate physicians:</p> <ol style="list-style-type: none"> 1. Journal Club 2. Paper presentation 3. Seminar: Lecture/ discussion. 4. Case presentation in the ward. 																																				
<p>7-Student Assessment:</p>																																					
<p>a. Procedures used:</p>	<ol style="list-style-type: none"> 1. Written exams to assess knowledge 																																				

	<ol style="list-style-type: none"> 2. Oral exams to assess intellectual skills and attitude 3. Clinical examination
b. Schedule:	<ol style="list-style-type: none"> 1. Final written exam in one paper. 2. Oral exam: immediately after the final written exam 3. Clinical examination
c. Weighing of Assessment:	<ul style="list-style-type: none"> • <i>Final-term examination</i> • <i>Written examination 50 %</i> • <i>Oral & Practical examination. 50 %</i>