



Program Specification for Master Degree in **Otorhinolaryngology**

Program type: single

Program code: 07-007-ENT-MS

Department offering the program: Department of Ear, Nose, and Throat

Academic year: 2021/2022

Program Coordinators: Prof. Dr. Mohamed abdelmonem

External evaluators: : Prof. Dr. Mahmoud saleh

Professor of Otolaryngology, minia university

Program aims

The program is a professional degree that enables candidates to specialize in the area of otorhinolaryngology, head and neck diseases. The candidates should achieve satisfactory levels of basic knowledge, clinical and surgical skills in all aspects of otorhinolaryngology, head and neck practice, interact with community problems, respect ethical values according to community culture, and promote their medical standards through engaging in continuing medical education. The program also aims to introduce the candidate to the basics of scientific medical research.

Intended learning outcomes of program (ILOs)

A- Knowledge and Understanding

- A1- list the abnormal structure, function, growth and development of human Ear, Nose and Throat.
- A2- Understand the natural history of otorhinolaryngology diseases.
- A3- Understand the causation of otorhinolaryngology diseases.
- A4- Enumerate methods of otorhinolaryngology health and preventing their illness and risk factors.
- A5- List the clinical picture and differential diagnosis of otorhinolaryngology illness.
- A6- Describe the various therapeutic methods/alternatives used used for otorhinolaryngology diseases.
- A7- Understand scientific developments in the field of otorhinolaryngology.
- A8- Understand the mutual influence between professional practice and it's impact on the environment.
- A9- Mention the ethical and legal principles of professional practice in the field of otorhinolaryngology.
- A10- 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

- B.2 Select from different diagnostic alternatives the ones that help reaching a final diagnosis for otorhinolaryngology problems
- B.3 analyze knowledge for professional problems' solving.
- B.4 Conduct a research study and/or writing a scientific study on otorhinolaryngology problem.
- B.5 Plan to improve performance in the field of otorhinolaryngology.
- B.6 Identify otorhinolaryngology risks and find solutions.

C-Practical and Professional Skills

- C.1 Master the basic and modern professional skills in the area of otorhinolaryngology.
- C.2 Write and Evaluate medical reports.
- C.3 Assess methods and tools existing in management of otorhinolaryngology .

D-General and Transferable Skills

- D.1 Work in a team, and team's leadership in various professional context.
- D.2 Communicate effectively by all types of effective communication.
- D.3 Use information technology to serve the development of professional practice.
- D.3 Assess himself and identify his personal needs.
- D.4 Use different sources to obtain information and knowledge.
- D.5 Manage time effectively.
- D.6 Learn him self continuously.

2- Contents(title) of MSc. program

***** Ear:**

- examination of the ear
- Disorders of the external ear
- Conductive deafness
- Acute inflammation of the middle ear cleft
- Management of chronic suppurative otitis media
- Complications of infections of middle ear
- Tumours of the middle ear cleft and temporal bone
- Diseases of the otic capsule
- The deaf child
- lesions of the inner ear
- Inflammatory lesions of the vestibular and auditory nerve
- vestibular neuroma

- lesion of the inner ear
- Meniere's disease
- Vertigo
- Facial paralysis

***Nose

- Anatomy&radiology of the nose
- Examination of the nose
- The nasal septum
- Epistaxis
- Acute and chronic inflammations of the nasal cavity and para nasal sinuses
- Allergic and non-allergic rhinitis
- Granulomas of the nose
- Tumours of the nose and sinuses
- FESS/ Nasal surgery

***Throat

- Methods of examination of the mouth and pharynx
- Diseases of the mouth
- diseases of the salivary glands
- Diseases of the tonsils and adenoid
- Tumours of the pharynx
- Oesophageal conditions in the practice of ear, nose and throat surgery
- Methods of examining the larynx and trachea-bronchial tree
- Congenital diseases of the larynx and pharynx
- Tracheostomy
- Micro-laryngeal surgery
- Maxillectomy

Academic standards.

a-Academic reference standards:

- ** The academic standards of anatomy program is adopted and accredited by the departmental council .
- ** The Board of Department of Otorhinolaryngology, Faculty of Medicine, Al-Azhar University.
- ** Postgraduate Education&Research committee, Faculty of Medicine, Al-Azhars University.
- ** The Council of the Faculty of Medicine, Al-AzharUniversity.
- ** The Council of Al-Azhar University.
- ** Egyptian ORL Association (EORLA).

b-External References for Standards:

- ** Resident Training Program Handbook of Otolaryngology - Head & Neck Surgery of Kentucky University.
www.mc.uky.edu/surgery/ENT/handbook07-08.pdf
- ** Otolaryngology, Head and Neck Surgery residency program of Toronto University.
www.otolaryngology.utoronto.ca/postgrad/fellowship/
- ** Scott-Brown"s Otorhinolaryngology, Head and Neck Surgery. Edited by Michael Gleeson et al, 7th edition. Hodder Arnold, London, 2008. www.hoddereducation.com
- ** Saudi Board of ORL .
- ** Pan Arab Association of ORL .
- ** Pan African Association of ORL .
- ** European Association of ORL(EUORLA).
- ** American Academy of ORL (AAORL).
- ** Medical Sector of Ministry of High Education,ARE.

NB. Some modifications have been made on the program to be applicable in our institution.

Program admission requirements.

According to the Faculty of Medicine, AL-Azhar University Bylaws for Post Graduate Programs, applicants should have MBBCh or equivalent degree. According to Cairo University requirements, all applicants for postgraduate studies should fulfill preliminary courses on the following subjects; Medical statistics I – Computer skills (ICDL) or equivalent computer course offered by the medical education center (MEDC). Admission to the program is open during July. Training prior to registration may be accredited according to departmental and hospital evaluation. Admission for the program is open during July.

The department will select candidates according to selection criteria approved by departmental committee revised yearly.

Program structure and contents.

Program duration: Three years.

Program structure: Total Credit points 147

First part: 1.5 years - (table 1)

53 credit points

Candidate should fulfill the following:

- Compulsory courses; one academic year (30 weeks Starts October)
 - Basic sciences courses 7 credit points
 - General surgery course(s) 3 credit points
- Elective courses 1 credit points
- Scientific activities 2 credit points
- Residency training program Phase 1:
“Basic training” for 18 months 40 credit points

(12 months „General Surgery“ + 6 months “Otorhinolaryngology”)

• **Second part: 1.5 years - (table 2)**

74 credit points

Candidate should fulfill the following:

- Compulsory courses; one academic year (30 weeks)
 - Otorhinolaryngology, head and neck 14 credit points
course (5 modules)
 - Basics of Phoniatics and Audiology 2 credit points
- Scientific activities 3 credit points
- Residency training program Part 2 55 credit
points
“Specific Otolaryngology, Head and Neck surgery” for one and half year

Master Thesis: completed during second part

20 credit points.

Table 1: First part

Courses		Credit Points		ILOs
Title		CPs	Total	
COMPULSORY COURSES (One academic year)				
Anatomy and Embryology		2	10	A ₁ , B ₁
Physiology		2		A ₁ , A ₅ , B ₁
Pathology		1		A ₁ , A ₄ , B ₁ D ₁ , D ₂ , D ₃
Clinical Pathology		0.5		A ₁ , A ₅ , B ₁
Microbiology		0.5		A ₁ , A ₃ , B ₁
Medical Genetics & statistics		0.5		A ₁ , B ₁
Internal medicine		1		A ₇ , B ₁ , D ₁
General Surgery		2.5		A ₇ , B ₁ D ₁ , D ₂ , D ₃
ELECTIVE COURSES (MEDC) choose 2 courses				
Scientific writing		0.5	1	D ₅ , D ₆
Evidence-Based Medicine		0.5		
Medical ethics		0.5		
SCIENTIFIC ACTIVITIES				
<i>1st Part</i> Scientific activities		2	2	D ₃ , D ₄ , D ₅
RESIDENCY TRAINING PROGRAM (Basic training)				
Residency training program		40	40	B ₁ , C ₆ , C ₈ D ₁ , D ₂ , D ₃ , D ₄ , D ₅ , D ₆

Table 2: Second part

Courses		Credit Points		ILOs
Code	Title	CPs	Total	
COMPULSORY COURSES (Two academic years)				
Basic Otorhinolaryngology				
	Otorhinolaryngology, head and neck	14	16	A ₂ , A ₆ , B ₁ , B ₂ , B ₃ , B ₄ , D ₁ , D ₂ , D ₃ , D ₄
	Basics of Phoniatrics and Audiology	2		
SCIENTIFIC ACTIVITIES				
	Scientific activities	3	3	D ₃ , D ₄ , D ₅ ,

RESIDENCY TRAINING PROGRAM (Special Otorhinolaryngology, head and neck)			
Residency training program	55	55	B ₁ , B ₂ , B ₃ , B ₄ , C ₁ , C ₂ , C ₃ , C ₄ , C ₅ , C ₇ , D ₁ , D ₂ , D ₃ , D ₄ , D ₅ , D ₆ ,
MASTER THESIS			
Master Thesis	20	20	D ₅

Residency (practical) Training Program

Residency Training Program

- **Basic Training:**

According to the Faculty of Medicine, AL-Azhar university Bylaws for Post Graduate Programs, all the students should have a basic training for 18 months. They should spend at least 12 months in a general surgery. They will spend 6 months in general surgery department, 3 months in emergency department and 3 months in critical care units. In addition, they will spend 6 months in the Ear, Nose, and Throat department. During this period the students will attend the basic sciences courses as well as the general surgery course. They also should complete the elective courses

- **Special Training:**

All students should complete the special part of the residency-training program in the department of Ear, Nose, and Throat. They should spend 18 months in order to complete the needed credit points. The student is expected to attend the outpatient clinics, inpatient sections, the otolaryngology emergency room, and the operating room to share in patients care under the supervision of senior staff members. During this period the students will attend the otorhinolaryngology course, prepare his thesis and participate in the scientific activities of the department.

NB: The details of the training program are provided in separate document. The third phase of residency training (advanced training) is part of the MD degree

Master Thesis

All master-degree students should prepare a thesis in one of the four main domains of Otorhinolaryngology, head and neck (Otology, Rhinology, Laryngology head and neck, and Pediatric Otorhinolaryngology). The department and the research ethical committee must approve the protocol of the research. The thesis should include a review part and a research part. The Thesis is supervised by one or more senior staff members from the Ear, Nose, and Throat department and may include other specialties according to the nature of the research. The thesis should be evaluated and approved by a committee of three professors including one of the supervisors and an external professor. Approving the thesis is mandatory to allow the student to set for the final exam.

Scientific Activities:

The students should participate in the scientific activities of the departments such as:

- *Journal club.*
- *Seminars (including recent topics and controversial issues). Students are expected to participate in the discussions.*
- *Scientific meetings arranged by the department.*

Each activity is monitored and given credit points registered in a special section in the residency-training logbook. The student should collect the required points before allowed to sit for final exam.

Regulations for progression and program completion

After collecting the required credit points for the respective courses, the first phase of the residency training, and the scientific activities, the student will be eligible to sit for the first part examination. In case the student fails to pass the examination, he may proceed in the clinical training and can resubmit for the next examination. After passing the first part, the student submits a protocol for Master Thesis at the beginning of the second part. Before submitting to the final examination he/she should finish the thesis and get approval, complete phase 2 of special training program, and collect the required credit points. The candidate will receive his degree after passing this final examination. Master degree should be obtained within a maximum of 6 years after registration date.

Assessment

Supervision & Monitoring of the Training Program:

According the Faculty of Medicine, AL-Azhar university Bylaws for Residency Training Programs, professors carry continuous assessment during the program. A residency-training program logbook will be kept for each student to document all his/her clinical, laboratory and/or operative/procedural activities as well as his/her participation in different scientific activities. The head of the department should allow the students to undergo the final examination when they complete their training program and collect the credit points needed.

A: Assessment Tools:

1. Final Exam Part I

Basic sciences

- **Anatomy and Embryology**: Two-hours written exam (including short essay and multiple choice questions) + oral exam
- **Physiology & Medical genetics & statics** : three-hours written exam (including short essay and multiple choice questions) + oral exam
- **Pathology, Microbiology, and Clinical Pathology**: Three-hours written exam (including short essay and multiple choice questions) + oral exam
- **Internal medicine** : Two-hours written exam (including short essay and multiple choice questions) + oral exam

The Written exam will be hold in four days:

Day one: Anatomy and embryology (2 hours)

Day two: Physiology, Medical genetics & statics (3 hours)

Day three: Pathology, Microbiology, and Clinical Pathology (3 hours)

Day four: internal medicine (3 hours)

This will be followed by the clinical and oral exams in separate days

2. Final Exam Part 2

- **Otorhinolaryngology. Head and Neck:** Two written exams (Three-hours each) including short assay questions, and MCQ (including problem solving) + oral exam + clinical exam + operative exam
- **Phoniatics and Audiology:** Two-hours written exam + oral exam
- **General Surgery:** Three-hour written exam (including short assay and multiple choicequestions) + clinical exam

B: ASSESSMENT SCHEDULE:

Examinations

1. First Part Final Exam:

The written exam will be held in April/SEPTEMBER (four days):

Day one: Anatomy and Embryology (2 hours)

Day two: Physiology ,Medical genetics&statistics(3 hours)

Day three: Pathology, microbiology, and Clinical Pathology (3 hours)

Day four: INTERNAL MEDICINE (3 hours)

This will be followed by the clinical and oral exams in separate days

2. Second Part Final Exam:

The written exam will be held in April/ November (three days):

Day one: Otorhinolaryngology1

Day two: Otorhinolaryngology2

Day three: Phoniatics and Audiology

Day four :general surgery

This will be followed by the clinical, operative and oral exams in separate days

C: WEIGHTING OF ASSESSMENT: Marks allocated to courses

(50 marks for each credit point)

Courses		Marks			
Title		Written	Oral	Clinical	Total
FIRST PART					
Anatomy and Embryology		75	25		100
Physiology ,genetics &statistics		75	25		100
Pathology		30	20	----	150
Microbiology		30	20		
Clinical Pathology		30	20		
Internal medicine		100	----	50	150
Total First Part					500
SECOND PART					
Otorhinolaryngology, head and neck 1		200	100	300	800
Otorhinolaryngology, head and neck 2		200			
Basics of Audiology and Phoniatics		60	40	----	100
General Surgery		50	50	50	150
Total Second Part					1050

Remarks

- It is mandatory to pass all the papers of written exams separately.
- The passing mark in any written exam is $\geq 40\%$.

Evaluation of program intended learning outcomes:

Evaluator	Tool	Sample
1. Senior Students	Questionnaire at the end of the program	All the PG students
2. Alumni	The faculty is currently developing an Alumni office for postgraduates	Not yet determined
3. Stakeholders	A meeting will be arranged during annual conference of the department	Available representatives from: <ul style="list-style-type: none">- Army hospitals- National medical insurance- Medical syndicate- Ministry of health
4. External Evaluators	Review program and courses Attending the final exam	Once before implementation Bi-annual report
5. College Quality Assurance committee	Annual program reviewer	

Date of approval by department council: 8th October, 2021

Program Coordinator

Prof.Mohamed abdelmonem

Head of Department

Prof.Ali Mahrous