

**Faculty of Medicine
AL-Azhar university**



Program Specification for Doctorate Degree in Otorhinolaryngology

Program type: single

Program code: 07-007-ENT-MD

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

Academic year: 2021/2022

Program Coordinators: Prof. Dr. Mohamed abdelmonem

External evaluators: : Prof. Dr.osama abdelhamid

Professor of Otolaryngology, Ain shams university

Program aims

By the end of the course, the post-graduate physician should have:

- 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.
- 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).
- 3-Developing skills in relation to medical researches and continuous medical education and encouraging scientific thinking in otorhinolaryngological field.
- 4-Positive attitude that are important for physician to communicate with patients, colleagues and co-workers in the medical field.

Intended learning outcomes of program (ILOs)

A- Knowledge and Understanding

- A1- Understand the natural history of otorhinolaryngology diseases.
- A2- Understand the causation and risk factors of otorhinolaryngology diseases.
- A3- Enumerate methods of otorhinolaryngology health and preventing their illness.
- A4- List the clinical picture and differential diagnosis of otorhinolaryngology illness.
- A5- Enumerate in the common diagnostic and laboratory techniques necessary to establish diagnosis of otorhinolaryngology emergencies.
- 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 its 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 of 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 a research problem.

B.5- Assess risk in professional practices in the field of otorhinolaryngology.

B.6 -Plan to improve performance in the field of otorhinolaryngology.

B.7 - Identify otorhinolaryngology problems and find solutions based on patient data.

B.8- Analyze researches and issues related to the otorhinolaryngology.

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 the area of otorhinolaryngology.

C.4 perform scientific studies and researches in otorhinolaryngology field

D-General and Transferable Skills

D.1 Communicate effectively by all types of effective communication.

D.2 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 Develop rules and indicators for assessing the performance of others to acquire the skills of decision making.

D.6 Work in a team, and team's leadership in various professional context.

D.7 Manage time effectively.

D.8 Learn himself continuously.

2- Contents(title) of MD. program

*** Ear:

- examination of the ear
- Radiology of the ear
- Disorders of the external ear
- Congenital and traumatic conditions of the middle ear cleft
- Conductive deafness
- Acute inflammation of the middle ear cleft
- Non-suppurative otitis media

- Chronic suppurative otitis media
- 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
- Traumatic lesions of the inner ear
- Inflammatory lesions of the vestibular and auditory nerve
- vestibular neuroma
- Ototoxicity
- Presbycusis
- Vascular lesion of the inner ear
- Diagnosis and management of sudden and fluctuant sensorineural hearing loss
- Meniere's disease
- Vertigo
- Facial paralysis
- Rehabilitation of adults with acquired hearing loss
- The cochlear implant
- Implantable hearing aid

***Nose

- Examination of the nose
- Radiology of the nose
- Injuries of the facial skeleton
- Cosmetic surgery of the nose
- Congenital diseases of the nose
- The nasal septum
- Epistaxis
- Acute and chronic inflammations of the nasal cavity and para nasal sinuses
- Complications of acute and chronic sinusitis
- Vasomotor rhinitis
- Allergic and non-allergic rhinitis
- Nasal polyposis
- Granulomas of the nose
- Tumours of the nose and sinuses
- Facial pain
- Trans-nasal pituitary surgery
- surgery of pterygo-paltine fossa
- FESS/ Nasal surgery

***Throat

- Methods of examination of the mouth and pharynx
- Diseases of the mouth
- diseases of the salivary glands
- Pharyngeal lesions associated with general diseases
- Diseases of the tonsils and adenoid
- Tumours of the pharynx

- Hypo-pharyngeal diverticulum (pharyngeal pouch)
- 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
- Neurological affections of larynx and pharynx
- Disorders of speech
- Tracheostomy
- Micro-laryngeal surgery

*** Head and neck

- Head and neck diagnostic imaging
- Radiation therapy for head and neck cancer
- Chemotherapy for head and neck cancer
- Preoperative evaluation and postoperative care and rehabilitation for HN cancer patient
- Complication of head & neck cancer surgery
- Natural history of neck/larynx/hypopharyngeal cancer
- Histological variants
- TNM staging
- Surgical management and techniques
- Neck dissection
- Laryngectomy
- Surgical anatomy of the salivary gland/parapharyngeal space
- Natural history of salivary gland cancer & parapharyngeal space
- Tumors
- Surgical management and techniques
- Parotidectomy
- Surgical anatomy of the thyroid/ parathyroid gland
- Surgical management and techniques
- Thyroidectomy parathyroid surgery
- Surgical anatomy of oral cavity/ oropharyngeal cavity
- Surgical management and techniques
- 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 structure and contents.

.a- Programme duration: (3.5)years

.b- Programme structure.

No. of hours per week:

Subject	No of hours/week		
	Lectures	Practical/ surgical	clinical
<u>First Part:</u>			
Anatomy&embryology	4	4	
Pathology	2	2	
Surgery of ear ,nose and throat head , <u>neck and</u> maxillofacial surgery	18	12	12

1-Program courses:

Course Title	Total No. of hours	No. of hours/ week			Program ILOs covered (by No.)
		Lectures	Practical	Clinical	
Surgical anatomy and Embryology of the ear, nose and throat and head and neck and ches	8	4	4	---	a1,a2,b7,c4,d5
Pathology of the E.N.T diseases and head and neck swellings and Neoplasns	4	2	2	---	a3,a4,a7,b1,b7,c2,c3,d2

Course Title	Total No. of hours	No. of hours/weeks			Programme ILOs covered (By No.)
		Lect.	Practical/ surgical	clinical	
Surgery of ear ,nose and throat head neck and maxillofacial surgery	42	18	12	12	a4,a5,a6,a7,a8,a9,a12, b1,b2,b5, b6,b7,b8,c1, c3,c4,c5,c6,d1,d3,d4, d6,d7

2-Program Admission Requirements

I- General Requirements.

- Candidate should have either MBBch degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
- Candidate should know how to speak & write English well
- Candidate should have computer skills.
- Follow postgraduate bylaw Regulatory rules of AL-Azhar Faculty of Medicine.

II- Specific Requirements

- Master degree in Otolaryngology with at least "Good Rank".

Activity per time	
Grand rounds	6
Training courses	12
Conference attendance	12
Thesis discussion	6
Workshops	12
Journal club	6
Seminars	6
Morbidity and Mortality Conference	6
Self education program	6

- Two sets of exams: 1st in november - 2nd in April.
- At least 60% of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re- attend the written exam.

(Thesis)

Documentation of the subject should not be delayed for > 1.5 years after registration.

- Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.

- Accepting the thesis is enough to pass this part.

3-Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Research assignment		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Human Anatomy & Embryology: Written Exam (2 hour) + structured oral Exam.
- Pathology: Written Exam (2 hour) + structured oral Exam.

Part II:

- ENT: Two Written Exams (3 hours for each), Written exam containing commentary (1.5 hours) Structured oral Exam + OSCE + Operative Exam..

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