Cairo University
Faculty of Medicine

Program Specification for Medical Doctorate Degree In Otorhinolaryngology

Program type: Single

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

Program Code: ORL 930

Total credit points: 268 (121 + 147 for the previous master degree)

Academic year: 2010/2011

Program Coordinator: Prof. Mosaad Abdel-Aziz

External evaluators: revised by Clarence Takashi Sasaki, MD, FACS

Professor of Otolaryngology; Director, Head and Neck Unit, Yale.

I. Aim of Program

The program is an academic degree that enables candidates to provide training and research in the area of Otorhinolaryngology, head and neck. The candidates should master clinical and surgical skills in all aspects of Otolaryngology practice, interact with community problems, and respect ethical values according to community culture. The candidate should acquire the scientific knowledge and skills that enables them to engage in medical education and scientific medical research.

II. Intended Learning Outcomes of Program (ILOs)

A. <u>Knowledge and Understanding</u>: By the end of the program the candidate should be able to:

1) Master the basic scientific knowledge related to Otorhinolaryngology, head and neck diseases.

2) Recognize the basic research regarding pathophysiology of different Otorhinolaryngology, head and neck diseases.

3) Describe in depth and detail the development of current management modalities for different Otorhinolaryngologic, head and neck problems in children, adults and geriatrics.

4) Aware of the areas of research in the field of Otorhinolaryngology, head and neck leading to development of new diagnostic procedures and innovative therapies.

5) Acquire advanced knowledge in one of the subspecialties related to Otorhinolaryngology, head and neck (chosen by the candidate)

B. <u>Intellectual Skills</u>: By the end of the program the candidate should be able to:

1) Analyze symptoms & signs, correlate them to the basic knowledge he had acquired and construct a differential diagnosis for rare otorhinolaryngologic, head and neck complaints.

2) Design an appropriate diagnostic plan for evaluation of rare otorhinolaryngologic, head and neck complaints taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.

3) Set up treatment plans for rare otorhinolaryngologic, head and neck problems taking into account the cultural and individual needs.

4) Acquire the ability to develop new and innovative solutions to different otorhinolaryngologic, head and neck problems

5) Acquire advanced experience in one of the subspecialties related to otorhinolaryngology, head and neck (chosen by the candidate)

C. **Professional and Practical Skills: By the end of the program the candidate should be able to:**

1) Collect clinical data for rare otorhinolaryngologic, head and neck disorders.

2) Perform new clinical procedures related to otorhinolaryngology, head and neck diseases.

3) Perform common otolaryngologic techniques and procedures related to basic research in the field of Otorhinolaryngology, head and neck.

4) Offer proper medical treatment for rare and uncommon otolaryngologic, head and neck diseases.

5) Perform advanced surgical skills and manage uncommon surgical complications related to the otorhinolaryngology, head and neck.

6) Acquire extra specific skills in one of the subspecialties related to otorhinolaryngology, head and neck (chosen by the candidate)

D. **General and Transferable Skills: By the end of the program the candidate should be able to:**

1) Communicate with other colleagues, researchers and health care providers.

2) Can set up team working for research.

3) Master extra computer skills necessary to make use of medical databases and use the Internet for communication.

4) Show administrative and leadership skills that enables him to organize work and lead the junior staff.

5) Acquire abilities to train and teach students and junior staff members

6) Understand different scientific methodologies and have critical reading abilities

7) Write scientific article according to the basics of scientific research.

III. Academic standards

1. Academic reference standers: The academic standers of anatomy program m is adopted and accredited by the departmental council
2. External References for Standards:
- However, sources include staff rounds, Journal clubs, conferences, medical journals, books (Scott-Brown's Otorhinolaryngology, Head and Neck Surgery. Edited by Michael Gleeson et al, 7th edition. Hodder Arnold, London, 2008. www.hoddereducation.com) and (Cumming's Otolaryngology Head & Neck Surgery.

Edited by Flint PW et al, 5th edition. Mosby Elsevier, Philadelphia. 2010) and other recent electronic and printable sources.

IV. Program Admission Requirements

According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), applicants should have Master degree or equivalent accredit degree accredit of in the same specialty. Admission to the program is open during January and July. The training prior to registration may be accredited according to departmental and hospital evaluation.

V. Program Structure and Contents

Program duration: Two academic years.

Program structure: Total Credit points 268 **(Table 1)**

- **Previous Master degree:** **147 points**

- **Compulsory courses; two academic years (30 weeks each)**

    o Otorhinolaryngology, head and neck course - 3 modules **20 credit points**

- **Elective courses** choose two courses **2 credit points**

    o Advanced Neuranatomy and surgical anatomy of skull base 1 point

    o Laser surgery in Otolaryngology, head and neck 1 point

    o Imaging in Otolaryngology, head and neck 1 point

- **Scientific activities** **4 credit points**

- **Residency training program Part 3 (ORL 930C)** **55 credit points**

    "Advanced Otolaryngology" for two years

- **Medical Doctorate Thesis:** **40 credit points**

Table 1: First part

Courses		Credit Points		ILOs
Code	**Title**	**CPs**	**Total**	
Previous master degree				**147**
Compulsory courses (two academic year)				
ORL 930 AE	Anatomy and Embryology of Otorhinolaryngology, head and neck	2	20	A_1, A_2, A_3, A_4 B_1, B_2, B_3, B_4 C_1, C_2, C_3, C_4, C_5
ORL 930 PAT	Pathology of Otorhinolaryngology, head and neck	2		
ORL 930 ENT	Otorhinolaryngology, head and neck diseases	16		
Elective courses choose 2 courses				
ORL 930 NEUR	Advanced Neuranatomy and surgical anatomy of skull base	1	2	A_5 B_5 C_6
ORL 930 LASER	Laser surgery in Otorhinolaryngology, head and neck	1		
ORL 930 IMA	Imaging in Otorhinolaryngology, head and neck	1		
Scientific activities				
1st	Scientific activities		4	D_5, D_6, D_7
RESIDENCY TRAINING PROGRAM				
ORL 930 C	Advanced training		55	B_1, B_2, B_3, B_4, B_5 C_1, C_2, C_3, C_4, C_5 D_1, D_2, D_3, D_4, D_5
Thesis				
	Thesis		40	A_5 B_5 C_6 D_1, D_2, D_3, D_6, D_7

Residency Training Program

- **Third Phase:**

  According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), the duration of the advanced training is 24 months. All the students should spend at least 18 months in the department of ear, nose and throat. They may spend electively 6 months in other departments or centers either at Cairo university hospitals or elsewhere. During this period the students will attend the Otorhinolaryngology, head and neck course, attend the outpatient clinics, inpatient section, the emergency unit, and the operating room to share in patients care, share in the academic activities and 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.

Medical Doctorate Thesis

All MD 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 otolaryngology). The department and the ethical committees 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 department of ear, nose, and throat 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 actively participate in the scientific activities of the departments such as:
- *MD discussion group*
- *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.

OTOLARYNGOLOGY MEDICAL DOCTORATE DEGREE PROGRAM MATRIX

Courses / items		A Knowledge and Understanding					B Intellectual Skills					C Professional Skills						D General and Transferable						
Code	Name	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6	7
ORL 930 AE	Anatomy and embryology of otorhinolaryngology, head and neck	x	x	x	x		x	x	x	x														
ORL 930 PAT	Pathology of otorhinolaryngology, head and neck	x	x	x	x		x	x	x	x														
ORL 930 ENT	Otorhinolaryngology, head and neck diseases	x	x	x	x		x	x	x	x														
ORL 930 NEURO	Advanced Neuroanatomy and surgical anatomy of skull base					x					x						x							
ORL 930 Laser	Laser surgery in Otorhinolaryngology, head and neck					x					x						x							
ORL 930 IMA	Imaging in Otorhinolaryngology, head and neck					x					x						x							
	Scientific Activities																					x	x	x
ORL 930 C	**Advanced Training Program**						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
	MD Thesis					x					x						x	x	x	x	x		x	x

VI. Regulations for Progression and Program Completion

After collecting the required credit points for the respective courses, the advanced residency training, the scientific activities, and the thesis, the student will be eligible to sit for the final examination. In case the student fails to pass the examination, he/she may resubmit for the next examination. The candidate will receive his/her degree after passing this final examination. MD degree should be obtained within a maximum of 6 years after registration date.

VII. Assessment

A: Assessment Tools

- **Supervision and Monitoring of Training Program**

According the Faculty of Medicine, Cairo University Bylaws for Residency Training Programs, coordinators carry continuous assessment during the program. A residency training logbook including scientific activities will be kept for each student to document all his/her clinical, and operative 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.

- **Formal Assessment**

According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009). Students should be assessed at the end of the program.

- **Anatomy and Embryology of Otorhinolaryngology, head and neck:** One written exam (Three hours) + oral exam.

- **Pathology of Otorhinolaryngology, head and neck:** One written exam (Three hours) + oral exam.

- **Otorhinolaryngology, head and neck:** Two written exams (Three-hours each) including short assay questions, and MCQ (including problem solving) + one written commentary exam in one case or more (one and half hours) + oral exam + clinical exam + operative exam.

- **ENT elective courses:** Two of three elective courses chosen by the candidate or according to his/her thesis (Advanced neuroanatomy and surgical anatomy of the skull base; Laser surgery in otorhinolaryngology head and neck; Imaging in Otorhinolaryngology head and neck): one oral exam for each course (each exam=50 marks)

B: Assessment Schedule:

The written exam will be held in April/October (five days):
  Day one: Anatomy and Embryology of Otorhinolaryngology, head and neck.
  Day two: Pathology of Otorhinolaryngology, head and neck.
  Day three: Otorhinolaryngology, head and neck diseases (1).
  Day four: Otorhinolaryngology, head and neck diseases (2).
  Day five: Otorhinolaryngology, head and neck diseases (3)
This will be followed by the clinical, operative and oral exams in separate days

C: Weighing Of Assessment (Marks allocated to courses):
(50 marks for each credit point)

Courses		Marks				
Code	**Title**	**Written**	**Oral**	**Clinical**	**Oper ative**	**Total**
Compulsory course						
ORL 930 AE	Anatomy and Embryology of Otorhinolaryngology, head and neck	60	40	-	-	200
ORL 930 PAT	Pathology of Otorhinolaryngology, head and neck	60	40	-	-	
ORL 930 ENT	Otorhinolaryngology, head and neck diseases (1)	150	100	200	100	800
ORL 930 ENT	Otorhinolaryngology, head and neck diseases (2)	150				
ORL 930 ENT	Otorhinolaryngology, head and neck diseases (3) [Commentary exam in one or several cases]	100				
Elective course (2 of 3)						
ORL 930 NEURO	Advanced Neuroanatomy and surgical anatomy of skull base		50			100
ORL 930 Laser	Laser surgery in Otorhinolaryngology, head and neck		50			
ORL 930 IMA	Imaging in Otorhinolaryngology, head and neck		50			
Total						**1100**

Remarks
- It is mandatory to pass all the papers of written exams separately.
- The passing mark in any written exam is ≥ 60%.

VIII. 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: - 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	

Signatures

Date of approval by department: October 2012

Program coordinator: Prof. Mosaad Abdel-Aziz

Program Coordinator
Prof. Mosaad Abdel-Aziz

Head of Department
Prof. Ismail Zohdi