



*Faculty of Medicine*  
*Suez Canal University*

*Otorhinolaryngology Department*  
*Program Specification- MD*

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## ***PROGRAM SPECIFICATIONS***

*Program Title:*

**MD of Audio-Vestibular  
Medicine**

*Code:*

***ENHE***



## Program Specification

### A- Basic Information

- 1- Programme Title: MD Audio-Vestibular Medicine
- 2- Program Type: Single  Double  Multiple
- 3- Department (s): Otorhinolaryngology
- 4- Coordinator: **Prof Alaa Abou- Setta**
- 5- External Evaluator(s): Prof Dr. Wafaa El-Kholy, **Prof Dr. Hosam Sany**.
- 6- Last date of program specifications approval: **the bylaws of the MD program in Audio-Vestibular Medicine in the Faculty of Medicine, Suez Canal University were approved by the Supreme Council of Universities on 2016**
- 7- **Date of program specification revision approval: 2018**
- 8- **Number of credit points for this degree: 180 CP**

### B- Professional Information

#### **1- Program Aim**

The overall goals of the program are to develop clinical audiologist with the following characteristics:

1. Demonstrate and apply knowledge of accepted standards of clinical medicine in audiovestibular field , remain current with new developments in medicine, and participate in life-long learning activities, including research.
2. Demonstrate the ability to effectively manage patients, incorporates the patient empathy, awareness of behavioral issues, and health promotion.
3. Be able to critically evaluate their methods of clinical practice, integrate evidence-based medicine into patient care and show an understanding of research methods.
5. Understand the necessity of continuous upgrading and updating through different modalities of Continuous Medical Education.

#### **2. Intended Learning Outcomes (ILOs) of the program**

By the end of this program, students should be able to:

##### ***a- Knowledge and Understanding:***

- a1 Recognize the essential structures and functions of auditory pathways and vestibular system
- a2 Describe key aspects of the perception of sound and how these relate both to speech perception and to the underlying anatomy and physiology.
- a3 Describe the range and function of the different recording components of audiology equipment, and the requirements for the internal and external calibration of auditory devices.



- a4 Recognize the framework underpinning aural rehabilitation of adults with acquired hearing impairment.
- a5 Recognize basic mathematics and physics relevant to introductory acoustics and the use of appropriate units.
- a6 Describe the basic principles of pharmacology and evaluate the evidence related to drugs affecting the auditory and vestibular system.
- a7 Describe the technical, surgical and psychosocial aspects of implantable devices, including cochlear implants and bone anchored hearing aids.
- a8 Describe the evidence base required to carry out vestibular assessments.
- a9 Recognize the pathology, types, causes and prevalence of balance disorders in adults.
- a10 Identify basic and medicolegal aspects and ethics of professional practice and scientific research and its reflection on environment.
- a11 Identify basis and principles of quality assurance in professional practice.
- a12 Demonstrate advanced knowledge of biostatistics
- a13 Realize the effects of this professional practices on the environment and ways of the development and maintenance of the environment

### **b. Intellectual Skills**

- b.1 Critically analyze and objectively interpret information/data objectively.
- b.2 Demonstrate problem solving skills in solving audiovestibular problems
- b.3 Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
- b.4 Evaluate available information objectively, recognizing its limitations.
- b.5 Determine clinically optimal yet cost-effective investigation.
- b.6 Determine levels of evidence in medicine and their translation into evidence-based practice.
- b.7 Demonstrate insight into research and scientific method through:
  - critical appreciation of methodology;
  - formulating research questions that are pertinent to medicine;
  - choice and application of appropriate quantitative and qualitative methodologies;
  - collecting, analyzing and interpreting data;
  - Analyzing and using numerical data (Use simple statistical methods)
- b.8 Critically appraise scientific literature and research designs specially as regarding audiovestibular field
- b.9 Perform scientific research adding new information and write scientific research
- b.10 Maintain and improve his standards of knowledge and training by critical self-education.
- b.11 Assess risk in professional practices

### **C- Professional and Practical Skills**

- c.1 Perform all skills required in the course specifications
- c.2 Evaluate and manage hearing-impaired child by evidence-based medicine



- c.3 Perform the common and advanced assessments in relation to audiovestibular field.
- c.4 Communicate with hearing-impaired patients and consider their psychological profile
- c.5 Consider the different aspects as regarding non-medical management of dizzy patient
- c.6 Demonstrate respect for patients and families and advocate for the primacy of patient's welfare and autonomy.
- c.7 Maintain comprehensive, timely, and legible medical records.
- c.8 Demonstrate principles of confidentiality with all information transmitted both during and outside of a patient encounter.
- c.9 Write and evaluate medical reports
- c.10 Provide the major goals of an effective quality assurance program:
  - Evidenced of accountability for services rendered and compliances with standards of practice.
  - A defined mechanism to identify, measures and resolves, clinical issues related to practice.
  - A defined mechanism of evaluating quality indicators, collecting data, developing corrective action and assessing outcomes.

#### **d- General and Transferable Skills**

- d.1 Demonstrate effective communication skills (verbal and written).
- d.2 Choose effective modes of communication (listening, nonverbal, explanatory, questioning) and mechanisms of communication (face-to-face, telephone, e-mail, written), as appropriate.
- d.3 Effectively utilize a range of information sources including information technology / health informatics.
- d.4 Educate and evaluate performance of peers
- d.5 Critically evaluate their personal performance both as an individual and within a team.
- d.6 Demonstrate capacity for self-learning and independent thinking and to utilize problem solving skills.
- d.7 Use different resources to obtain knowledge and information.
- d.8 Demonstrate skills in working collegiately and effectively with others as a member of a team.
- d.9 Conduct both individual consultations and presentations at multidisciplinary conferences that are focused, clear, and concise.

#### **3- Academic Standards**

- The generic Academic Reference Standards (ARS) of NAQAAE for Postgraduate

#### **3b -Comparison of Provision to External References**

#### **4- Curriculum Structure and Contents**

**4a- Program duration:** The program lasts for a minimum of 3 academic years and maximum 7 years, as specified in the internal bylaws for postgraduate studies based on credit points system in the Faculty of Medicine, Suez Canal University approved on February 7<sup>th</sup>, 2016.

**4b- Program structure:**

**MD Program Credit points (CP) structure:**



**Total needed credit points for getting MD degree 180 CP**

The program consists of **First part 30 CP, Thesis 50 CP, and Second part 100 CP**

1. **The first part of the program:** 30 CP, its duration (15 weeks) for one academic semester. The first part comprises the following:
    - a. A course in **Advanced Research Methods** and **Statistics** planned and held in the Community Medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 8 CP.
    - b. A course in Audio-Vestibular physiology planned and held in the Physiology Department, and Acoustics planned and held in the Otorhinolaryngology Department of the Faculty of Medicine, Suez Canal University. This part includes 9 CP.
    - c. A course in Basic Audiological Evaluation and Otology planned and held in the Otorhinolaryngology Department of the Faculty of Medicine, Suez Canal University. This part includes 9 CP.
    - d. Two electives each one has 2 CP. The students should select one elective which has not been selected in the Master Degree.
  - 2- **MD thesis:**50 CP, no scores for thesis. The candidate has the right to register his/her thesis protocol after 6 months from the degree registration. The first time for thesis defense after 2 years from the date of the faculty council approval on the thesis protocol.
  - 3- **The second part of the program:** 100 CP, its duration (75 weeks ) for 5 consecutive academic semesters. The second part comprises the specialized courses in Audio-Vestibular Medicine, planned and held in the Otorhinolaryngology Department. This part lasts for 2.5 years ending by written and practical exams.
  - 4- **4bi- No. of hours per week:** 2 CP / week which equivalent 50 hours/ week, including lectures, tutorials, self-learning and hands-on training.
  - 5- **4bii- No. of credit Points:** the MD program is 180 Credit Points
- Every credit point includes 25 working hours (30% = 7 hours for face to face learning activities, and 70% =18 hours for self-learning activities).

## **5. Program Courses**

### **5.1- Level/Year of Program: First part of MD (30 CP)**



Courses			Assessment				
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam
			No of Papers	Duration	Marks		
ENHE51	Basic Audiological Evaluation and Otology	9	1	3 hours	135	45	
ENHE52	Audio-Vestibular Physiology and Acoustics	9	1	3 hours	135	45	
BR	Advanced Research Methods and Statistics	8	1	3 hours	160		
E	2 Elective Courses	2+2	1+1	1 hour + 1 hour	40+40		
<b>Total</b>		<b>30 credit points</b>			<b>600 marks**</b>		

**\*Student should select one course of the following as an elective course:**

Two elective courses each one has 2 CP. The students should select two elective which has not been selected before in the Master Degree.

<b>E01</b>	<b>Evidence Based medicine</b>	<b>(Community Department)</b>
<b>E02</b>	<b>Scientific Writing</b>	<b>(Medical Education Department)</b>
<b>E03</b>	<b>Quality in Medical Education</b>	<b>(Medical Education Department)</b>
<b>E04</b>	<b>Infection Control</b>	<b>(Microbiology Department)</b>
<b>E05</b>	<b>Critical Appraisal</b>	<b>(Community Department)</b>
<b>E06</b>	<b>Communication Skills</b>	<b>(Medical Education Department)</b>

**\*\*every credit point equal 20 marks**



**5.2- Level/Year of Program: Second part of MD program (100 CP)**

Courses			Assessment					
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam	Continues assessment *(Portfolio)
			No of papers	Duration	Marks			
ENHE53	Scientific Courses in Audio-Vestibular Medicine	30	2	3 hours+ 3hours	270+ 270	180	540	540
	Clinical training in Audio-Vestibular Medicine	60						
	***Scientific activities	10						
<b>Total</b>		<b>90 credit points</b>			<b>1800**marks</b>			

**\*Portfolio: its scores distributed in the different parts of the portfolio and its total score included among total mark of second part**

**\*\*every credit point equal 20 marks**

**\*\*\*Scientific activities are not included in the total marks**

**5.3Thesis:** 2 faculty senior supervisors from the staff members are nominated by the department council to prepare a proposal of the thesis protocol after the selection of a subject that is complementary to the research plans of the department. Data collection, methodologies, study question, time table, ethical considerations and budget are formulated by the candidate under guidance of his supervisors into a research project. The research protocol is then peer reviewed by two different staff members nominated by the Head of the department who share their ideas and comments with the supervisors to reach to the final form. The research protocol is discussed then openly in one of the department councils to be approved and diverted to the Faculty research committee where it is subjected to a critical appraisal to meet the research basic standards set by the committee. The final approvals of the research protocol are then issued by the committee of post graduate studies, the Faculty and University Council to be registered.



## 6- Program Admission Requirements

- Master in Audiovestibular medicine, minimum good grade.
- Registration for the program opens 2 times/year, according to the internal bylaws for postgraduate studies of the Faculty of Medicine, Suez Canal University.

## 7- Student Assessment Methods

- 7.1 **Written (MEQ)** to assess the cognitive domain.
- 7.2 **MCQs** to assess the cognitive domain
- 7.3 **Oral Viva Cards** to assess higher cognitive and attitude domains.
- 7.4 **Observations** to assess practical and presentation skills.
- 7.5 **Portfolio** to assess the cognitive, psychomotor and the affective domains.

## 8- Weighting of Assessments

Type of exam	
<b>First part (30 credit points= 600 mark)</b>	
• Written exam	510
• Oral exam	90
• <b>Total</b>	<b>600</b>
<b>Second part (100 credit points including 10 credit points not included in the total marks =1800 mark)</b>	
• Oral exam	180
• Practical exam	540
• Written exam	540
• Portfolio	540
<b>Total</b>	<b>1800</b>

## 9- Regulations for Progression and Program Completion

The regulations for program completion follow the general regulations for the Faculty of Medicine, Suez Canal University for MD approved by the Supreme Council of Universities. The program is considered complete with the accomplishment of 2 summative assessments (for the first and the second parts) and the defense of a thesis developed and submitted for the purpose of acquiring the degree.

- **First part**
- Passing level 60% of total marks of the exam and at least 50% passing level of the total written exam marks
- **Second part**
- Passing level 60% of total marks of the exam
- Passing level 60% total of practical and oral exam
- **Thesis/Assay**





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- Passing discussion is required for MD degree

**10- Evaluation of Program Intended Learning Outcomes (ILOs)**

Evaluator	Tool	Sample
1- Postgraduate students	Needs assessment questionnaires	Random sample of participants
2- Alumni(N/A since this is the first time to implement the program)	N/A	N/A
3- Stakeholders	Self-administered questionnaires DELPHI Focus groups	According to the method
4-External Evaluator(s) (External Examiner(s))	External audit of the program specifications	

*Head of Otorhinolaryngology departement*

*Prof. Maged Baher*