



Program Specification for MD Degree in Phoniatrics

Program type: single

Department offering the program: Phoniatric unit, Otorhinolaryngology Department

Program Code: PHON 900

Total Credit points: 283 (130 + 153)

Academic year: 2010/2011

Program coordinator: Prof. Dr. Elham Ahmed Shaheen

External Evaluator: Prof. Dr. Mohammed Baraka, Professor of Phoniatrics, Ain Shams University

I. Aim of the Program

The program is an advanced professional degree that enables candidates to be an expert in the area of Phoniatric diseases including all related disorders such as swallowing disorders, learning disabilities and dyslexia. The candidates should achieve advanced levels of knowledge and perfect clinical skills in all aspects related to communication and communication-related disorders. Candidates should achieve all these skills with respect to ethical values according to community culture. The program also aims at promoting the candidates' team standards and their ability to work and participate collaboratively within a multi-disciplinary team work. The program also aims for the candidate to master advanced scientific medical research.

II. Intended Learning Outcomes of the Program (ILOs)

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

- 1- Recognize the advanced knowledge regarding recent theories related to speech, language, and voice pathology as well as communication-related disorders as swallowing disorders and learning difficulties.
- 2- Identify and discuss complicated and rare problems and syndromes related to speech, voice, and language pathology
- 3- Understand the advanced neurophysiological principles of the central encoding, decoding, memory and integration processes in speech, hearing, and swallowing.
- 4- Acquire the advanced knowledge of sound and acoustics related to professional voice users' voice disorders.
- 5- Identify and discuss complicated and rare neurological, psychiatric and ear, nose and throat cases related to Phoniatrics.
- 6- Recognize the advanced knowledge related to the microanatomy and histo-anatomy of the vocal tract and the patho-physiology of the communicative disorders

- 7- Understand concepts of most recent assessment procedures and evaluation tools related to language, speech, voice, learning, and swallowing disorders.
- 8- Describe the most recent management modalities: preventive, therapeutic, and surgical interventions and rehabilitation for voice disorders,
- 9- Acquire advanced knowledge about the most recent scientific articles related to communicative disorders.
- 10- Get acquainted with anesthesia, surgical skills and surgical complications related to Phoniatic as well as fitting of the prosthesis.
- 11- Describe drug therapy in inflammatory, neurogenic, psychogenic, ear, nose, pharyngeal and laryngeal disorders in the domain of Phoniatic.

B. Intellectual Skills: By the end of the program the candidate should be able to:

- 1- Analyze symptoms & signs and correlate them to the knowledge acquired to construct a detailed and most recent differential diagnosis for complicated Phoniatic complaints and the augmentative and alternative communicative methods
- 2- Design skillfully the diagnostic plan for evaluation of communication disorders taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.
- 3- Analyze, correlate and interpret the results of different advanced and recent investigations related to speech, language, voice, learning, and swallowing difficulties.
- 4- Correlate the neurological, psychiatric and ear nose and throat disorders related to the communicative disorders.
- 5- Organization and guidance of Phoniatic institutes.

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

- 1- Evaluate and identify rare and complicated communication disorders.
- 2- Perform most recent assessment tests related to Phoniatic diseases.
- 3- Perform skillful flexible endoscopic examination and master fitting of prosthesis related to Phoniatic cases.
- 4- Examine skillfully signs related to communicative disorders.
- 5- Collaborate in early detection of laryngeal malignancies, and in microsurgical procedures related to the communicative disorders as well as the laryngeal framework and plastic surgery.
- 6- Perform skillful neurological and psychiatric and ear, nose and throat examination for cases related to communicative disorders.
- 7- Manage complicated disorders related to communicative disorders
- 8- Perform skillful rehabilitation programs for the difficult and complicated cases of Phoniatic cases

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

- 1- Communicate with the patients and parents to gain their confidence.
- 2- Respond effectively to a patient's and parents' emotional and psychosocial concerns

- 3- Communicate with other members of the health care providers.
- 4- Appreciate team work.
- 5- Achieve Computer skills necessary to make use of medical data bases and use the internet for communication.
- 6- Show administrative skills that enables the candidates to fulfill the paper work needed
- 7- Show leadership skills that enable the candidate to organize work and lead the junior as well as paramedical staff.
- 8- Understand different scientific methodologies and have critical reading abilities
- 9- Write scientific article according to the basics of scientific research.

III. Academic standards

External references for standards:

International Association of Logopedics and Phoniaticians (IALP).

Union of the European Phoniaticians (UEP).

IV. Program Admission Requirements

According the Faculty of Medicine, Cairo University Byelaws for Post Graduate Programs (July 2009), applicants should have Master degree in Phoniatics. Admission to the program is open during March and October. For details for admission, refer to the training and level in the master degree training program prior to registration accredited according to departmental and hospital evaluation.

V. Program Structure and Contents

Program duration: 24 Months

Program structure:

2 years – Total credit points (Table 1)

- **Compulsory courses; academic year (30 weeks each)**
 - Anatomy and embryology (PHON 901) 2 credit points
 - Theories off language, speech and voice production (PHON 930 TLSV)2 credit points
 - Linguistics (PHON 930 LIN) 3 credit points
 - Phoniatics (PHON 930 PHN) 20 credit points
 - Neurology (PHON 916) 2 credit points
 - Psychiatry (PHON 917) 2 credit points
- **Elective courses**
 - Video-stroboscopy (PHON 930 VE) 1 credit point
 - Acoustic analysis (PHON 930 AA) 1 credit point

- **Scientific activities** 4 credit points
- **Advanced training program (PHON 930 C)** 55 credit points
- **MD Thesis: 20 months** 40 credit points
- **Table 1**

Code Title	Compulsory Courses	Total credit points	ILOs
PHON 901	Anatomy and Embryology Advanced Embryology Microanatomy, electron microscopy of the vocal folds Histo-anatomy of the vocal folds, larynx and pharynx. <u>Applied Neuro-anatomy</u>	2	A(6,9)
PHON 930 TLSV	Recent, advanced Theories of Language, Speech and Voice Production	2	A(1,3)
PHON 930 LIN	Recent advances in Linguistics	2	A(3,4)

PHON 930 PHA	Recent advances Phoniatics	20	A(2,4,5,6,7,8,9,10,11) B(1,2,3,5) C(1,2,3,4,5,7,8)
PHON 916	Neurology: Recent advances in neurological disorders related to Phoniatics	2	A(5) B(4) C (6)
PHON 917	Recent advances of Childhood and adult Psychiatry related to Phoniatic	2	A(5) B (4) , C (6)
Scientific activities	National and international Conferences, journal club, thesis discussion, assignments	4	
M.D thesis		40	A(9),D(5.6,7,8,9)
PHON 930 C	Training program (Phoniatics) will be attached in a separate papers	55	B.C
PHON 930 AA	Elective Courses 1-Videostroboscopic examination 2- Acoustic analysis	1	A(8) B(2,4) C (2)

MD Thesis:

All MD degree students should prepare a thesis for discussion after at least 20 months from the date of approval of the protocol. The research and ethical committee must approve the protocol of the research. The thesis may include a review part and a research part. The thesis is supervised by two or more senior staff members 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, an internal professor and an external professor. Approving the thesis is mandatory to allow the student to sit for the final exam.

Scientific Activities:

The candidates should attend and participate in the scientific activities of the department such as:

- Seminars. *Including recent and rare topics and controversial issues. Students are expected to participate in the discussions and in the preparation and presentation of the topics*
- Journal clubs (weekly)
- Scientific meetings.
- Workshops.
- Conferences (weekly).
- Thesis discussions.

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

Matrix

Courses	A Knowledge and Understanding											B Intellectual Skills					C Clinical Skills										D Attitudes						
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7
Name																																	
Anatomy and Embryology						x			x																								
Theories of Language, Speech and Voice Production	x		x						x																								
Linguistics			x					x																									
Phoniatrics		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	X	x								
Neurology:					X										x								X										
Childhood and adult Psychiatry				x											X								x										
M D thesis									X							x																	
Scientific Activities																																	
Residency Training Program																																	
Master																																	

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. Achievement of 75% attendance is needed to be eligible to sit for the final examination. In case the student fails to pass the examination, he/she will continue the clinical attendance and training until they resubmit for the next examination. The candidate will receive his/her degree after passing this final examination and accomplish the thesis and get approved. 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 Byelaws for practical Training Programs, professors carry continuous assessment during the program. A practical training program logbook will be kept for each candidate to document all his/her practical activities as well as his/her participation in different scientific activities. The head of the department should allow the candidates 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 Byelaws for Post Graduate Programs (July 2009). Students should be assessed at the end of the program

Final examination:

- **Phoniatrics:** Two written exams (Three-hours each) including short essay questions, and MCQ (including problem solving) + oral exam + clinical exam
- **Anatomy, Theories of language, Voice and Speech Production andLinguistics:** Three hour written exam (including short essay and multiple choice questions).
- **Neurology & Psychiatry:** Three hour written exam including short essay questions, and MCQ (including problem solving)

B: Assessment Schedule: After acceptance of the MD thesis.

Final Exam:

The written exam will be held in May / November (four days):

Day one: Phoniatric 1 (3 hours)

Day two: Phoniatric 2 (3 hours)

Day three:Anatomy, Theories of language, Voice and Speech Production and Linguistics: (3 hours)

Day four: Neurology and Psychiatry (3 hours)

This will be followed by the clinical (long and short cases) and oral exams as well as OSCI (one committee) on separate days for Phoniatrics

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

* C: clinical exam;

* P: practical exam

Courses		Marks			
Code	Title	Written	Oral	C*/P*	Total
	Phoniatrics	250+250	250	250	1000
	Anatomy, Theories of language, Voice and Speech Production and Linguistics	300	—	—	300
	Neurology and Psychiatry	200	---	---	200
Total					1500

Remarks

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

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. Stake holders	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	

Signatures

Date of approval by department council

Program Coordinator

Head of Phoniatric unit

Head of ENT Department