



Program Specification for Medical Doctorate Degree In Ophthalmology

Program type: Single

Program code: OPHT 929

Department offering the program: Department of Ophthalmology

Total credit points: 273

Academic year: 2016/2017

Program Coordinators: Prof. Dr. Omar El-zawahry, Prof. Dr. Gehad El-Nahry, Prof. Dr. Ayman El-Shiaty, Prof. Dr. Magda Salah.

External evaluators: xxx

I. Program aims

The program is a professional degree that enables candidates to specialize in the area of the eye and orbital adenxa, regarding medical aspect as well as surgical one. The candidate should achieve satisfactory levels of basic knowledge, clinical and surgical skills in all aspects in all aspects of ophthalmology. The program also aims to establish that the candidate is able to perform a scientific medical research.

II. Intended learning outcomes of program (ILOs)

By the end of the program the candidate should be able to;

A. Knowledge and understanding:

- 1) Master the basic scientific knowledge related to ophthalmic diseases and systemic diseases with ocular manifestations.
- 2) Recognize the basic research regarding pathophysiology common to be able to identify the pathological background related to different ophthalmic disorders.
- 3) Aware of the areas of research in the field of investigations to be ordered to help in reaching the diagnosis (laboratory, ophthalmic investigations).
- 4) Describe in depth and detail the development of current management modalities ophthalmic disorders.
- 5) To recognize basic and advanced surgical skills in ophthalmic practice.

B. Intellectual skills:

- 1) Analyze symptoms & signs, correlate them to the basic knowledge he had acquired and construct a differential diagnosis for rare ophthalmic diseases

- 2) Design an appropriate diagnostic plan for evaluation of rare ophthalmological 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 ophthalmological problems taking into account the cultural and individual needs.
- 4) Acquire the ability to develop new and innovative solutions to different ophthalmological problems
- 5) Acquire advanced experience in one of the basics fields related to ophthalmology (chosen by the candidate)

C. Professional and practical skills:

- 1) Collect clinical data for rare ophthalmological disorders.
- 2) Perform new clinical procedures
- 3) Perform common ophthalmological techniques and procedures related to basic research in the field of ophthalmology
- 4) Offer proper medical treatment for rare and uncommon ophthalmological diseases
- 5) Perform advanced surgical skills and manage uncommon surgical complications related to eye and ocular adnexa
- 6) Acquire extra specific skills in one of the basics fields related to ophthalmology (chosen by the candidate)

D. General and transferable skills:

- 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 f 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.

External references for standards:

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IV Program admission requirements

According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009, amended in 2012), applicants should have a Master degree or its equivalent in the same specialty. Admission to the program is open during July. The Master degree and the training prior to registration may be accredited according to departmental and hospital evaluation.

V. Program structure and contents.

Program duration: Two years

Program structure: Total Credit points 273 (Table 1)

- **Previous Master degree:** **153 points**
- **Compulsory courses; two academic year** **13 credit points**
 - Applied basic sciences (OPHT 929 ABS) **3 credit points**
 - Advanced ophthalmic medicine and investigative ophthalmology (OPHT 929 AM) **6 credit points**
 - Advanced ophthalmic surgery (OPHT 929 AS) **4 credit points**
- **Elective courses** (candidate chooses two courses) **2 credit points**
 - Pathology (OPHT 911) 1 credit point
 - Neurology (OPHT 916) 1 credit point
 - Plastic surgery (OPHT 909) 1 credit point
 - Rheumatology (OPHT 920) 1 credit point
 - Dermatology (OPHT 915) 1 credit point
- **Scientific activities** **4 credit points**
- **Residency training program Part 3 “Advanced ophthalmology” for two years (OPHT 929 C)** **61 credit points**
- **Medical Doctorate Thesis:** **40 credit points**

Table 1

	Courses	Code	Credit points
Masters degree in ophthalmology (previously acquired)			153
Compulsory courses			13
• Applied basic sciences		OPHT 929 ABS	3
• Advanced ophthalmic medicine and investigative ophthalmology		OPHT 929 AM	6
• Advanced ophthalmic surgery		OPHT 929 AS	4
Elective Courses (Candidate chooses 2 courses)			2
	Pathology	OPHT 911	1
	Neurology	OPHT 916	1
	Plastic surgery	OPHT 909	1
	Rheumatology	OPHT 920	1
	Dermatology	OPHT 915	1
Scientific activities			4
Residency training program (phase 3) (OPHT 929 C)			61
MD Thesis			40
Total			273

Residency Training Program

- **The advanced training (Third Phase of the residency training program):**

According to the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), the duration of the advanced training is 24 months. All students should spend at least 18 months in the ophthalmology department. 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 ophthalmology course, attend the outpatient clinics, inpatient section, 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 main domains of ophthalmology (oculoplastic and reconstructive, lens, refractive and corneal disease, pediatric and strabismus, glaucoma, vitreoretinal disorders). 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 ophthalmology 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 (presenting scientific articles) once every one- two weeks.*
- *Seminars (including recent topics and controversial issues) once weekly. Students are expected to participate in the discussions.*
- *Scientific meetings arranged by the department*
- *Attendance of Thesis discussions*
- *Others like individual department grand round*

Each activity will be monitored and given credit points registered in a logbook. The candidate should collect the required points before being allowed to sit for final exam.

V. Regulations for progression and program completion

The student submits a protocol for MD Thesis at the beginning of the program. Before submitting to the final examination he/she should finish the thesis and get approval, complete advanced training program, and collect the required credit points for all the courses and scientific activities. The candidate will receive his/her degree after passing this final examination. In case the student fails to pass the examination, he/she can resubmit for the next examination. MD degree should be obtained within a maximum of 6 years after registration date.

VI. 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/or 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.

- **Ophthalmology** Three written exams (Three-hours each) including short assay questions, and MCQ (including problem solving) + oral exam + clinical exam
- **Elective courses** Three-hour written exam (One and half hour for each course including short assay and multiple choice questions) + oral exam

B) Assessment Schedule:

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

Day one: Ophthalmic medicine and investigative ophthalmology

Day two: Ophthalmic surgery

Day three: Applied basic sciences

Day four: elective courses

This will be followed by the clinical 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	Total
Compulsory course					
OPHT929 ABS	Applied basic sciences	80	35	35	150
OPHT929 AM	Ophthalmic Medicine and investigative ophthalmology	100	50	150	300
OPHT929 AS	Ophthalmic Surgery	100	50	50	200
Elective courses (choose only 2 courses)					
OPHT 911 OPHT 916 OPHT 909 OPHT 920 OPHT 915	Pathology Neurology Plastic surgery Rheumatology Dermatology	30+30	20+20	---	100

Remarks

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

VII. 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 the 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 the program and courses Attending the final exam.	Once before implementation Bi-annual report
5. College Quality Assurance committee	Annual program review	

Date of approval by department council

Signatures

Program Coordinator

Prof. Dr. Omar El-zawahry, Prof. Dr. Gehad El-Nahry, Prof. Dr. Ayman El-Shiaty, Prof. Dr. Magda Salah.

Head of Department

Prof.Dr.Khaled El Rakhawy