



## **Program Specification for Master Degree: Urology**

**Program type: Single**

**Program code: Urol 800**

**Department offering the program: Department of Urology**

**Total credit points: 150**

**Academic year: 2016/2017**

**Program Coordinators:** Prof. Hisham Badawy, Prof. Mohammed ElGammal, Prof. Mohamed Salah, Prof. Omar AbdelRazzak, Asst. Prof. Hany Elfayoumy

**External evaluators:** Prof. Amr Fergany, Cleveland Clinic Foundation, USA.

### **I. Program aims**

The program is a professional degree that enables candidate to specialize in the area of Urology. The candidate should achieve satisfactory levels of basic knowledge, clinical and surgical skills of all aspects of Urology practice, interact with community problems, respect ethical values according to community culture, and promote their medical standards through engaging in continuous medical education. The program also aims to introduce the candidate to the basics of scientific medical research.

### **II. Intended learning outcomes of program (ILOs)**

- 1. Knowledge and understanding: By the end of the program the candidate should;**
  - a) Recognize the basic scientific facts related to Urology including the male and female urinary tract and the male genital system.
  - b) Identify and discuss common surgical problems.
  - c) Distinguish the underlying pathologic processes for common urologic diseases.
  - d) Describe different treatment modalities for common surgical problems, generally met in urologic practice.
  - e) Understand the basic concepts of urologic surgeries and the aims to be reached.
  
- 2. Intellectual skills: By the end of the program the candidate should be able to;**
  - a) Analyze symptoms & signs and construct a differential diagnosis for common urologic problems
  - b) Design an appropriate diagnostic plan for evaluation of common urologic problems.

- c) Interpret the results of urologic investigations and correlate the results together to reach a probable diagnosis.
- d) Set a treatment plan to the diagnosed problem taking into consideration the risks and benefits as well as cultural and individual needs of the patients.

**3. Professional and practical skills: By the end of the program the candidates should be able to;**

- a) Collect clinical history taking from the patient and master its skills taking into consideration other medical and surgical problems the patient might have.
- b) Perform detailed examination of the urinary tract in males and females as well as the genital tract in males.
- c) Perform basic urologic investigations that help in preliminary diagnosis of urologic problems encountered.
- d) Evaluate, categorize, and manage all urologic emergencies with the help of a consultant.
- e) Perform basic urologic surgeries to manage common urologic problems.

**4. General and transferable skills: By the end of the program the candidates should be able to;**

- a) Communicate efficiently with patients to acquire important information during history taking.
- b) Co-operate efficiently with other health care providers.
- c) Gain administrative work skills during running the daily ward activities.
- d) Acquire computer skills necessary for using medical databases, preparing medical presentations.
- e) Gain scientific reading and writing skills enabling him to participate in scientific research.
- f) Develop social and communication skills to present clinical cases and scientific arguments.

### **III. Academic standards.**

1. Academic reference standers: The academic standers of anatomy program is adopted and accredited by the departmental council

2. External References for Standards:

- The curriculum offered by the European Board of Urology (EBU)
- The Curriculum for Urologic Training 2008 published by The Joint Committee on Surgical Training, (an advisory body to the four surgical Royal Colleges of the UK and Ireland)
- Campbell-Walsh Urology 11<sup>th</sup> edition 2016.

The program also includes some areas of training not mentioned in the aforementioned programs.

### **IV. Program admission requirements.**

According to the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), applicants should have MBChB or equivalent degree. According to Cairo University requirements, all applicants for postgraduate studies should fulfill preliminary courses on the following subjects; Medical statistics I – English language (Toefl or equivalent degree) – Computer skills (ICDL) or equivalent computer course offered by the medical education center (MEDC). Admission to the program is open during July. Training prior to registration may be accredited according to departmental and hospital evaluation. Admission for the program is open during July.

## V. Program structure and contents.

**Program duration:** Three years.

**Program structure:** Total Credit points 150

### **First part: 1.5 years - (table 1)**

**55 credit points**

Candidate should fulfill the following:

- Compulsory courses; one academic year (30 weeks Starts October)
  - Basic sciences courses 6 credit points
  - General surgery course 3 credit points
- Elective courses 1 credit point
- Scientific activities 2 credit points
- Residency training program Phase 1: "Basic training" for one and half year 46 credit points

### **Second part: 1.5 years - (table 2)**

**75 credit points**

Candidate should fulfill the following:

- Compulsory courses (Urology) one academic year (30 weeks) 14 credit points
- Scientific activities 3 credit points
- Residency training program phase 2: "Special Urology" for one and half year 58 credit points

**Master Thesis:** completed during second part

**20 credit points.**

**Table 1: First part**

<b>Courses</b>	<b>Course modules</b>	<b>Credit points</b>	<b>total</b>	<b>ILOs</b>
<b>Compulsory courses</b> (One academic year)				
UROL 804	Physiology	0.5	9	1-a,c
UROL 803	Biochemistry	0.5		
UROL 801	Anatomy & Embryology	1		
UROL 802	Histology	0.5		
UROL 808	General & Special Pathology	1.5		
UROL 806	Medical Microbiology	1		
UROL 807	Pharmacology	1		
UROL 812	General & Special Surgery	3		1-b,d
<b>Elective Courses</b> Candidate choose 2 courses				
(MEDC)			1	4-c,e,f,h,i
▪ Critical Reading		0.5		
▪ Scientific writing		0.5		
▪ EBM		0.5		
▪ Medical ethics		0.5		
▪ Medical statistics II		0.5		
▪ Communication skills		0.5		
<b>Scientific activities</b>			2	4-c,d,e,h,i
<b>Residency training program</b> (phase 1 basic training)UROL 831C1			46	3-f 4-a,b,c,d,e,f,g

**Table 2: Secondpart**

item	Credit points	ILOs.
<b>Course : Urology (Urol 831)</b>	14	2-a,b,c,d 3-a,b,c,d,e 4-a,b,c,d,e,f
<b>Scientific activities</b>	3	4-c,d,e,h,i
<b>Master thesis</b>	20	4-h,i
<b>Residency training program (phase 2)</b> UROL 831 C2	58	2-a,b,c,d 3-a,b,c,d 4-a,b,c,d,e,f,g

### **Residency (practical) Training Program**

- **Basic Training:**

According to the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), all the students should have a basic surgical training for 12 months. They should spend at least 6 months in a general surgery department and 6 months in an emergency department(s). During this period the students will attend the basic sciences courses as well as the general surgery course. They also should complete the elective courses

- **Special Training:**

All students should complete the special part of the residency training program in the Urology department. They should spend 18 months in order to acquire the needed credit points. During this period the students will attend the Urology course of the second part and will participate in the scientific activities of the department.

***NB: The details and requirements of the training program are illustrated in separate document***

### **Master Thesis**

All master-degree students should prepare a thesis in Urology. The department and the ethical committees must approve the protocol of the research. The thesis may include a review part and a research part. The thesis is supervised by one 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 and an external professor.

### **Scientific Activities:**

The students should participate in the scientific activities of the departments such as:

- Journal club 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
- Morbidity and mortality reports.

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.

## **VI. Regulations for progression and program completion**

After collecting the required credit points for the respective courses, the first phase of the residency training, and the scientific activities, the student will be eligible to sit for the first part examination. In case the student fails to pass the examination, he may proceed in the clinical training and can resubmit for the next examination. After passing the first part, the student submits a protocol for Master Thesis at the beginning of the second part. Before submitting to the final examination he/she should finish the thesis and get approval, complete phase 2 of special training program, and collect the required credit points. The candidate will receive his degree after passing this final examination. Master degree should be obtained within a maximum of 6 years after registration date.

## **VII. Assessment**

### **Supervision & Monitoring of the Training Program:**

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

### **A: Assessment Tools:**

#### **1. Final Exam Part I**

##### **Basic sciences**

- Physiology, Biochemistry, Anatomy & Embryology:
  - 3-hour written examination in 3 papers (including short essay and multiple choice questions) + oral exam for each.
- Histology and Pathology:
  - 2-hour written examination in 2 papers (including short essay and multiple choice questions) + oral exam for each
- Bacteriology and Pharmacology:
  - 2-hour written examination in 2 papers (including short essay and multiple choice questions) + oral exam for each.

### **General Surgery:**

- 2-hour written examination (including short essay and multiple choice questions) + oral exam + clinical exam.

*The Written exams will be held in four days:*

*Day one: Physiology, Biochemistry, Anatomy & Embryology (3 hours)*

*Day two: Histology and Pathology (2 hours)*

*Day three: Bacteriology and Pharmacology (2 hours)*

*Day four: General surgery (2 hours)*

*This will be followed by the clinical and oral exams in separate days*

### **2. Final Exam Part 2**

- Urology:
  - 2 written exams (3-hours each) of multiple choice questions (including problem solving) or short essay + oral exam + clinical exam.

The written exams will be held in two consecutive days, this will be followed by the oral and clinical in separate days.

### **B: ASSESSMENT SCHEDULE:**

#### ***Part 1 Examinations***

*Four Written exams will be held in four days:*

*Day one: Physiology, Biochemistry, Anatomy & Embryology (3 hours)*

*Day two: Histology and Pathology (2 hours)*

*Day three: Bacteriology and Pharmacology (2 hours)*

*Day four: General surgery (2 hours)*

*This will be followed by the clinical and oral exams in separate days*

#### ***Part 2 Examinations***

*Two written exam will be hold in two days:*

*Day one: Urology paper one (3 hours)*

*Day two: Urology paper two (3 hours)*

*This will be followed by the clinical and oral examinations in separate days*

### **C: WEIGHING OF ASSESSMENT: Marks allocated to courses**

(50 marks for each credit point)

*Example*

Course	Written	Oral	Clinical/practical	Total
<b>First part</b>				<b>500</b>
Physiology	20 +	15 +	—	125
Biochemistry	20 +	15 +		
Anatomy & Embryology	30	25		
Histology	20 +	15 +	—	125
Pathology	50	40		
Bacteriology	25 +	25 +	—	100
Pharmacology	25	25		
General surgery	60	45	45	150
<b>Second part</b>				<b>600</b>
Urology	150 + 150	150	150	600

Remarks

- It is mandatory to pass the four papers of the andrology exam separately
- Passing mark in a written exam is  $\geq 60\%$



## VIII. Evaluation of program intended learning outcomes:

<b>Evaluator</b>	<b>Tool</b>	<b>Sample</b>
<b>1. Senior students</b>	Questionnaire at the end of the program	All the PG students
<b>2. Department staff members</b>	Meeting of the department council after the exam results biannually	
<b>3. College quality assurance committee</b>	Annual program review	

**Date of approval by department council**

**Signatures**

*Program Coordinator*

*Head of Department*