



## **Program Specification for Master Degree:** **Obstetric & gynecology**

Program type: Single

Department : **Obstetric & Gynecology**

Program Code: OBGYN

Total credit points: 160

Academic year: 2010 / 2011

Head Of Department: Prof. Hossam Badrawi

Program Coordinators: Prof. Hesham Al-Inany  
Prof. Olfat noh

External evaluators:

### **I. Program aims**

The program is a professional degree that enables candidates to specialize in the area of Obstetric & gynecology reproductive health including basic knowledge ,normal and abnormal obstetrics, female fertility and infertility, sexually transmitted infections (STIs) ,gynecologic oncology and other related gynecological problems. The candidates should achieve satisfactory levels of basic knowledge, clinical and surgical skills in all aspects of Obstetric & gynecology practice, interact with community problems, respect ethical values according to community culture, and promote their medical standards through engaging in continuing 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 knowledge related to human reproduction including normal and abnormal obstetrics, female fertility and infertility, sexually transmitted infections (STIs) ,gynecologic oncology and other related gynecological problems.
  - b) Identify and discuss common problems related to (oncology , infertility, STD, Genital Prolapse) and (normal and abnormal labour ,high risk pregnancy ,normal and abnormal fetal condition ,complication of 3<sup>rd</sup> stage of labour and puerperal problem.
  - c) Distinguish the basic pathology underlying different Obstetric & gynecology disorders
  - d) Understand the psychological basis of human sexuality and sexual disorders
  - e) Understand basic concepts of laboratory procedures related to assisted conception, female infertility, and STIs

- f) Describe different management modalities for common Obstetric & gynecology problems.
  - g) Practice the basic surgical procedures in Obstetrics and Gynecology .
  - h) Recognise the common drug used in obstetric ( ecobolic , tocolytic ) and in gynecology
- 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 obstetric and gynecological complaints.
  - b) Design an appropriate diagnostic plan for evaluation of common obstetric and gynecological complaints taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.
  - c) Interpret the results of different investigations related to common obstetric and gynecological complaints.
  - d) Set up treatment plans for common and rare obstetric and gynecological problems taking into account the cultural and individual needs.
- 3. Professional and practical skills: By the end of the program the candidates should be able to;**
- a) Collect clinical data specially the art of history taking in sensitive issues such as infertility and urogynecology problem.
  - b) Examine and identify signs of common and rare obstetric and gynecological disorders.
  - c) Perform office clinical procedures related to female infertility US ,IUD insertion , and office hysteroscopy.
  - d) Offer proper medical treatment for obstetric and gynecological problem.
  - e) Perform basic surgical skills and manage common surgical complications related to the external and internal female reproductive organs.
  - f) Offer surgical interventions whenever indicated
  - g) Manage all obstetric and gynecological emergencies properly.
- 4. General and transferable skills: By the end of the program the candidates should be able to;**
- a) Communicate with the patients to gain their confidence.
  - b) Respond effectively to a patient's emotional and psychosocial concerns
  - c) Communicate with other health care providers.
  - d) Appreciate team working.
  - e) Achieve Computer skills necessary to make use of medical data bases and use the internet for communication.
  - f) Show administrative skills that enables him to fulfill the paper work needed
  - g) Show leadership skills that enable him to organize work and lead the junior sand paramedical staff.
  - h) Understand different scientific methodologies and have critical reading abilities
  - i) Write scientific article according to the basics of scientific research.

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

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

**2. External references for standards:**

- a- Area of reproductive medicine: (The curriculum offered by the European Society of Human Reproduction, ESHRE)
- b- The postgraduate education program in Obstetrics and Gynecology at McMaster University

NB The program also incorporates other diagnostic procedures and surgical procedures for other Gynecological problems not included in the afore mentioned programs

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

According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), applicants should have MBBCh 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:** five years.

**Program structure:** Total Credit points 160 (60 +80 +20)

**• First part: 1.5 years - Total credit points 60 - (Table 1)**

- Compulsory courses; one academic year (30 weeks)
  - Basic sciences courses 8 credit points
  - General surgery course 2 credit points
- Elective courses 1 credit points
- Scientific activities 1 credit points
- Residency training program Part 1:  
“Basic General Surgery ,General medicine ,ICU ,emergencies” for one and half year 48 credit points

**• Second part: 1.5 years - Total credit points 80 - (Table 2)**

- Compulsory courses; one academic year (30 weeks)
  - obstetric and gynecology course. 12 credit points
- Scientific activities 3 credit points
- Residency training program Part 2:  
Obstet & Gynecol for one and half year 65 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)				
Anatomy	• Anatomy and Embryology	1	1	1-a
Physiology	• Physiology and endocrinology of reproduction	1	1	1-a,e
pharmacology		1	1	1-h
Pathology	Pathology of the reproductive organs	2	2	1-a,c 3-d
Microbiology	• Medical microbiology • Reproductive immunology	0.5	0.5	1-a,e
Community medicine		0.5	0.5	1-a,d 4-a,b
Obstetric medicine		2	2	1-a 2 -b c
General Surgery	• General Surgery • Surgery of male genital tract	2		1-g
<b>Elective Courses</b> (MEDC) choose 2 courses				
	<ul style="list-style-type: none"> <li>○ Scientific writing</li> <li>○ EBM</li> <li>○ Medical ethics</li> <li>○ Medical statistics</li> <li>Research methodology</li> </ul>	0.5 0.5 0.5 0.5 0.5	1	4-c,e,f,h,i
<b>Scientific activities</b>			1	4-c,d,e,h,i
<b>Residency training program</b> (general surgery)			48	3-f 4-a,b,c,d,e,f,g

**Table 2: Second part**

<b>Item</b>	<b>Credit points</b>	<b>ILOs.</b>
<b>Obstetric</b>	6	2-a,b,c,d
<b>Gynecology</b>	6	3-a,b,c,d 4-a,b,c,d.
<b>Scientific activities</b>	3	4-c,d,e,h,i
<b>Master thesis</b>	20	4-h,i

Residency training program	65	2-a,b,c,d 3-a,b,c,d 4-a,b,c,d,e,f,g
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### **Residency Training Program**

- **First phase (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 18 months. They should spend at least 6 months in a general surgery (pediatric surgery) department, 6 months in emergency department and 3 months in critical care units and 3 months in general medicine (endocrinology unit). During this period the students attend the basic sciences courses as well as the general surgery course. They also should complete the elective courses.

- **Second phase (Special Training):**

All students should complete the special part of the residency-training program in the obstetric and gynecology department. They should spend 18 months in order to complete the needed credit points. The student is expected to attend the outpatient clinics, inpatient section, and the operating room to share in patients care under the supervision of senior staff members. During this period the students will attend the obstetric and gynecology course, 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.*

### **Master Thesis**

All master-degree students should prepare a thesis in one of the given subjects put by the scientific committee of obstetric and gynecology. 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 obstetric and gynecology 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 sit for the final exam.

### **Scientific Activities:**

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

- *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.

## **V. 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/she 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/her degree after passing this final examination. Master degree should be obtained within a maximum of 6 years after registration date.

## VI. Assessment

### A: Assessment Tools:

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

According to 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 to the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), Students should be assessed at the end of first part and at the end of the second part

#### 1. First Part Final Exam:

- **Anatomy and Embryology**: 2-hour written exam (including short essay and multiple choice questions) + oral exam + potting.
- **Physiology & pharmacology** Two-hour written exam (2-paper) + oral exam
- **Pathology**: 3-hour written exam (including short essay and multiple choice questions) + oral exam
- **Microbiology / Immunology ,community medicine**: 3-hour written exam (2- paper) + oral exam
- **Obstetric medicine** :3-hour written exam + clinical exam
- **General Surgery**: Three-hour written exam + clinical exam

#### 2. Second Part Final Exam Part 2:

**obstetric**: 3-hour written exams (Three-hours each) including short essay questions, and MCQ + oral exam + clinical exam

**gynecology**: 3-hour written exams (Three-hours each) including short essay questions, and MCQ + oral exam + clinical exam

**commentary (cae obstetric &cae gynecology)**: 2-hour written exams

### B: Assessment Schedule:

#### 1. First Part Final Exam:

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

*Day one: (2 hours)*

*Day two: (2 hours)*

*Day three: (3 hours)*

*Day four: (3 hours)*

*Day five : (3 hours)*

*Day 6 : 3 hours)*

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

#### 2. Second Part Final Exam:

The written exam will be held in May/ November :

Day one:

Day two:

Day three:

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

### C: Weighting Of Assessment: Marks allocated to courses

(50 marks for each credit point)

Course	Written	Oral	Clinical/practical	Total
<b>First part</b>				<b>500</b>
<u>Anatomy and Embryology</u>	30	20		50
<u>Physiology &amp; pharmacology</u>	40	10		100
	40	10		
<u>Pathology:</u>	50	50		100
Microbiology <u>Immunology</u> <u>,community</u> <u>medicine</u>	15	10		50
	15	10		
<u>Internal medicine</u>	60		40	100
General surgery	60		40	100
<b>Second part</b>				<b>500</b>
<u>Obstetric:</u>	120	40	40	200
○ <u>gynecology</u>	120	40	40	200
○ <u>commentary (case obstetric &amp; gynecology)</u>	50 +50			100

#### Remarks

- It is mandatory to pass the three papers of the **obstetric and gynecology** exam separately
- Passing mark in a 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"> <li>• Army hospitals</li> <li>• National medical insurance</li> <li>• Medical syndicate</li> <li>• Ministry of health</li> </ul>
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**

**Head of Department**

Prof. Hossam Badrawi

**Program Coordinators**

*Prof:* Hesham gaber Al-Inany

*Assistant Prof:* Olfat Noh