Cairo University  
Faculty of Medicine

Program Specification for Master Degree  
Obstetrics & gynecology

Program type: Single
Program Code: OBGYN800
Department offering the program: Department of obstetrics and gynecology
Total credit points: 160
Academic year: 2010/2011
Program Coordinators: Prof. Hossam Badrwi  
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 Obstetrics & gynecology, reproductive health including basic knowledge, normal and abnormal obstetrics, female fertility and infertility, genital tract infections, gynecologic oncology and other related gynecological problems. The candidates should achieve satisfactory levels of basic knowledge, clinical and surgical skills in all aspects of obstetrics & 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, develop leadership and team working skills and finally develop clinical practice which is based on the analysis of relevant clinical trials

II. Intended learning outcomes of program (ILOs)

A. Knowledge and understanding: By the end of the program the candidate should;

1. Recognize the basic scientific knowledge related to human reproduction including normal anatomy, physiology and normal and abnormal obstetrics, female fertility and infertility, genital tract infections, gynecologic oncology and other related gynecological problems.

2. Identify and discuss common problems related to oncology, infertility, genital tract infections, genital prolapse and normal and abnormal labour, high risk pregnancy, normal and abnormal fetal condition, and complication of 3rd stage of labour and puerperal problem.

3. Identify the basic pathology underlying different obstetrics & gynecology disorders

4. Recognize the psychological basis of human sexuality and sexual disorders

5. Realize basic concepts of laboratory procedures related to assisted conception, female infertility, and genital tract infection
6. Describe different management modalities for common Obstetrics & gynecology problems.

7. Recognize the common drugs used in obstetrics such as: ecobolic, tocolytic; ect. and in gynecology

B. **Intellectual skills**: By the end of the program the candidate should be able to;

1. Analyze symptoms & signs and construct a differential diagnosis for common obstetrics and gynecological complaints.

2. Design an appropriate diagnostic plan for evaluation of common obstetrics and gynecological complaints taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.

3. Interpret the results of different investigations related to common obstetrics and gynecological complaints.

4. Formulate treatment plans for common and rare obstetrics and gynecological problems taking into account the cultural and individual needs.

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

1. Collect clinical data specially the art of history taking in sensitive issues such as infertility and urogynecological problems.

2. Examine women presenting with signs of common and rare obstetrics and gynecological disorders efficiently

3. Offer proper medical treatment for obstetrics and gynecological problems.

4. Perform office clinical procedures related to female infertility such as: US, IUCD insertion and removal, and office hysteroscopy.

5. Perform basic surgical skills and manage common surgical complications related to the external and internal female reproductive organs.

6. Perform gynecological and obstetrics surgeries whenever indicated such as polypectomy, myomectomy and Cesarean section

7. Manage all obstetrics and gynecological emergencies properly.

8. Practice the basic surgical procedures in Obstetrics and Gynecology

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

1. Communicate with the patients to gain their confidence.

2. Respond effectively to a patient’s emotional and psychosocial concerns

3. Communicate with other health care providers.

4. Appreciate team working.

5. Achieve Computer skills necessary to make use of medical data bases and use the internet for communication.

6. Show administrative skills that enables him to fulfill the paper work needed

7. Show leadership skills that enable him to organize work and lead the juniors and paramedical staff.

8. Recognize different scientific methodologies and have critical reading abilities

9. Write scientific articles according to the basics of scientific research.
III. Academic standards.

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 aforementioned 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.

V. Program structure and contents.

Program duration: three 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
      - Anatomy 1 credit point
      - Physiology 1 credit point
      - Pathology 2 credit points
      - Pharmacology 1 credit point
      - Medical microbiology and reproductive immunology 0.5 credit point
      - Community medicine 0.5 credit point
      - Obstetrics medicine 2 credit points
    - General surgery course 2 credit points
      - Elective courses 1 credit points
      - Scientific activities 1 credit points
Residency training program Part 1: 48 credit points
“Basic General Surgery, General medicine, ICU, emergencies” for one year

Second part: 1.5 years - Total credit points 80 - (Table 2)
- Compulsory courses; one academic year (30 weeks)
  Obstetrics and gynecology course. 12 credit points
- Scientific activities 3 credit points
- Residency training program Part 2: Obstetrics & Gynecology for one and half year 65 credit points

Master Thesis: completed during second part 20 credit points.

### Table 1: First part

<table>
<thead>
<tr>
<th>Code</th>
<th>Courses</th>
<th>Course modules</th>
<th>Credit points</th>
<th>total</th>
<th>ILOs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Compulsory courses</strong> (One academic year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBGYN 801</td>
<td>Anatomy</td>
<td>Anatomy and Embryology</td>
<td>1</td>
<td>1</td>
<td>A1</td>
</tr>
<tr>
<td>OBGYN 804</td>
<td>Physiology</td>
<td>Physiology and endocrinology of reproduction</td>
<td>1</td>
<td>1</td>
<td>A1,5</td>
</tr>
<tr>
<td>OBGYN 807</td>
<td>Pharmacology</td>
<td></td>
<td>1</td>
<td>1</td>
<td>A8</td>
</tr>
<tr>
<td>OBGYN 808</td>
<td>Pathology</td>
<td>Pathology of the reproductive organs</td>
<td>2</td>
<td>2</td>
<td>A1,3 C3</td>
</tr>
<tr>
<td>OBGYN 806</td>
<td>Microbiology</td>
<td>Medical microbiology, Reproductive immunology</td>
<td>0.5</td>
<td>0.5</td>
<td>A-1,5</td>
</tr>
<tr>
<td>OBGYN 809</td>
<td>Community medicine</td>
<td></td>
<td>0.5</td>
<td>0.5</td>
<td>A-1,4 A-1,2</td>
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<tr>
<td>OBGYN 811</td>
<td>Obstetrics medicine</td>
<td></td>
<td>2</td>
<td>2</td>
<td>A-1, B-2.3</td>
</tr>
<tr>
<td>OBGYN 809</td>
<td>General Surgery</td>
<td>General Surgery, Surgery of male genital tract</td>
<td>2</td>
<td>2</td>
<td>C-8</td>
</tr>
<tr>
<td>MEDC4</td>
<td>Scientific writing</td>
<td></td>
<td>0.5</td>
<td>0.5</td>
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</tr>
<tr>
<td>MEDC2</td>
<td>EBM</td>
<td></td>
<td>0.5</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>MEDC1</td>
<td>Medical ethics</td>
<td></td>
<td>0.5</td>
<td>0.5</td>
<td></td>
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<tr>
<td>MEDC 3</td>
<td>Medical statistics</td>
<td></td>
<td>0.5</td>
<td>0.5</td>
<td></td>
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<tr>
<td>MEDC5</td>
<td>Research methodology</td>
<td></td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td></td>
<td><strong>Scientific activities</strong></td>
<td></td>
<td></td>
<td>1</td>
<td>D-3,4,6,8,9</td>
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<tr>
<td>OBGYN828C1</td>
<td>Residency training program</td>
<td>(general surgery)</td>
<td>48</td>
<td>3-f</td>
<td>4-a,b,c,d,e,f,g</td>
</tr>
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</table>

4
Table 2: Second part

<table>
<thead>
<tr>
<th>Code</th>
<th>Item</th>
<th>Credit points</th>
<th>ILOs.</th>
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<tbody>
<tr>
<td>OBGYN 828</td>
<td>Obstetrics Gynecology</td>
<td>6</td>
<td>B-1,2,3,4</td>
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<tr>
<td></td>
<td></td>
<td>6</td>
<td>C-1,2,3,4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D,1,2,3,4</td>
</tr>
<tr>
<td></td>
<td>Scientific activities</td>
<td>3</td>
<td>D-3,4,5,8,9</td>
</tr>
<tr>
<td></td>
<td>Master thesis</td>
<td>20</td>
<td>D-8,9</td>
</tr>
<tr>
<td>OBGYN828C2</td>
<td>Residency training program</td>
<td>65</td>
<td>B-1,2,3,4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C-1,2,3,4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D-1,2,3,4,5,6,7</td>
</tr>
</tbody>
</table>

Residency Training Program

- **First phase (Basic Training):**
  
  According 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 4 months in a general surgery department, 4 months in emergency department and 2 months in critical care units and 2 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. It is up to the department to decide the time schedule for each resident to get a general training course.

- **Second phase (Special Training):**
  
  All students should complete the special part of the residency-training program in the obstetrics and gynecology department. They should spend 24 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 obstetrics and gynecology course, prepare his thesis and participate in the scientific activities of the department.

Master Thesis

All master-degree students should prepare a thesis in one of the given subjects put by the scientific committee of obstetrics and gynecology. The department and the ethical committee of the department 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 obstetrics 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 set for the final exam.

Scientific Activities:

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

- Journal clubs and ground rounds
- Seminars and workshops (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 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 first part and at the end of the second part

1. First Part Final Exam:

• **Anatomy and Embryology**: 2-hour written exam (including short assay and multiple choice questions) + oral exam + spotting.

• **Physiology & pharmacology** Two-hour written exam (2-paper) + oral exam

• **Pathology**: 3-hour written exam (including short assay and multiple choice questions) + oral exam

• **Microbiology / Immunology ,community medicine**: 3-hour written exam (2 - paper) + oral exam

• **Obstetrics medicine**: 3-hour written exam + clinical exam

• **General Surgery**: Three-hour written exam + clinical exam

2. Second Part Final Exam Part 2:

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

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

• **Commentary exam**: 2-hour written exams (case obstetrics &case gynecology)
B: Assessment Schedule:

1. First Part Final Exam:
   The written exam will be held in April/October (six days):
   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 in 3 days
   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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Written</th>
<th>Oral</th>
<th>Clinical/practical</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First part</strong></td>
<td></td>
<td></td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>Anatomy and Embryology</td>
<td>30</td>
<td>20</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>Physiology &amp; pharmacology</td>
<td>40</td>
<td>10</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Pathology</td>
<td>50</td>
<td>50</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Microbiology</td>
<td>15</td>
<td>10</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>Immunology, community medicine</td>
<td>15</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal medicine</td>
<td>60</td>
<td></td>
<td>40</td>
<td>100</td>
</tr>
<tr>
<td>General surgery</td>
<td>60</td>
<td></td>
<td>40</td>
<td>100</td>
</tr>
<tr>
<td><strong>Second part</strong></td>
<td></td>
<td></td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>Obstetrics:</td>
<td>120</td>
<td>40</td>
<td>40</td>
<td>200</td>
</tr>
<tr>
<td>o gynecology</td>
<td>120</td>
<td>40</td>
<td>40</td>
<td>200</td>
</tr>
<tr>
<td>o commentary (case obstetrics &amp; gynecology)</td>
<td>50 +50</td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Remarks
- It is mandatory to pass the three papers of the obstetrics and gynecology exam separately
- Passing mark in a written exam is ≥ 60%
VII. Evaluation of program intended learning outcomes:

<table>
<thead>
<tr>
<th>Evaluator</th>
<th>Tool</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Senior Students</td>
<td>Questionnaire at the end of the program</td>
<td>All the PG students</td>
</tr>
<tr>
<td>2. Alumni</td>
<td>The faculty is currently developing an Alumni office for postgraduates</td>
<td>Not yet determined</td>
</tr>
<tr>
<td>3. Stakeholders and employee of visiting residents and trainee</td>
<td>A meeting will be arranged during the annual conference of the department</td>
<td>Available representatives from: • Army hospitals • National medical insurance • Medical syndicate • Ministry of health</td>
</tr>
<tr>
<td>4. External Evaluators</td>
<td>Review the program and courses Attending the final exam.</td>
<td>Once before implementation Bi-annual report</td>
</tr>
<tr>
<td>5. College Quality Assurance committee</td>
<td>Annual program review</td>
<td></td>
</tr>
</tbody>
</table>

Date of approval by department council

**Head of Department**
Prof. Hossam Badrawi

**Program Coordinators**
Prof: Hesham gaber Al-Inany
**Assistant Prof:** Olfat Noh