



Program Specification for Master Degree in Family Medicine

Program type: Single

Department offering the program: Department of Family Medicine

Program Code: FAML800

Total Credit points: 170 credit points

Academic year: 2015/2016

Date of approval: July 2015

External Evaluator: Professor Mohammed Muhammedy Suez Canal University

I. Aim of the Program

The aim of this program is to develop competent family physicians capable of providing high quality patient-centered comprehensive medical care, covering the biopsychosocial aspect of their patients based on the best available medical evidence. Our trainees will learn to work in teams both as members and as leaders.

They will share in community focused research and will be committed to lifelong learning. They will also learn to apply appropriate ethical and professional standards in their day to day practice and in their relationships with their patients and colleagues.

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 etiology, clinical manifestations, differential diagnosis and management of the common medical problems affecting the adult population in Egypt.
- 2) Determine the etiology, clinical manifestations, differential diagnosis and management of the common medical problems affecting infants and children
- 3) Detect the preventive methods and screening tests available in Egypt for prevention and early diagnosis of common childhood problems.
- 4) Report the current health problems of the Egyptian population as well as the health concerns on the international levels
- 5) Identify the health needs of the vulnerable groups in the Egyptian population.
- 6) Explain the impact of the adverse social factors on the health of the Egyptians such as: poverty, poor housing, malnutrition, unemployment, pollution and
- 7) Interpret how the health care delivery system in Egypt operates as well as the medico legal Legislations in Egypt.
- 8) Select the pharmacokinetics and pharmacodynamics of medications in normal individuals, patients with liver or kidney diseases and pregnant females.
- 9) Utilize the principles of medical ethics that guide the doctor-patient and the doctor-doctor relationships at the different levels of health care services.

- 10) Reset the basics of critical appraisal of researches.
- 11) Tell up-to-date evidence based medicine resources and recommendations for health promotion and disease prevention for patients of all ages.

B. Intellectual Skills:

By the end of this course the candidate should be able to:

- 1) Interpret the results of the different investigations effectively.
- 2) Integrate the information gathered from the history with the results of the clinical examination and investigations to reach a proper diagnosis.
- 3) Appraise research articles critically.
- 4) Interpret statistical results efficiently and apply the results in patient care properly.
- 5) Manage time effectively.

C. Clinical Skills:

By the end of this course the candidate should be able to:

- 1) Obtain a proper and complete history, Perform and document a proper and complete clinical examination, Select the most appropriate and cost effective investigations and develop an appropriate patient-centered treatment plan for adult patients.
- 2) Document a proper and complete history, Perform and document proper and complete clinical examination, Select the most appropriate and cost effective investigations and develop an appropriate patient-centered treatment plan for infants and children.
- 3) Operate a proper and complete history, Perform and document a proper and complete clinical examination, Select the most appropriate and cost effective investigations and develop an appropriate patient-centered treatment plan for females presenting with common gynecological or obstetric problems.
- 4) Manage acute emergency cases initially, perform immediate life support measures when indicated and perform proper referral.
- 5) Perform routine procedures required for appropriate family practice as IUD insertion and male circumcision.
- 6) Use drugs in a cost effective manner.
- 7) Provide appropriate counseling in different situations including genetics; premarital, family planning, adolescents, nutrition and cancer
- 8) Demonstrate the ability to communicate in multiple modalities with patients, their families, other health care providers and administrators.
- 9) Discuss the different models for behavioral modification and change for life style modification.

D. Attitudes, General and Transferable Skills:

By the end of the course the candidate should be able to:

- 1) Recognize self limitations with regards to practice and seek consultation with other-health care providers to provide optimal care for his patients.
- 2) Demonstrate sensitivity and responsiveness to the patient's culture, gender and social background.

- 3) Apply safe medical practice through early recognition, reporting and correction of medical errors.
- 4) Show appropriate professional attitudes with his patient including empathy, respect for their dignity, their privacy and their rights and equity of care among them.
- 5) Demonstrate the capacity to communicate effectively and maintain honesty and integrity in all interactions with his patients, their families and his colleagues.
- 6) Work effectively in a team either as a member or as a leader who can educate, motivate, supervise and lead other health workers in health promotion, disease prevention and management of diseases.
- 7) Acquire the confidence of the colleague, student and auxiliary staff by communication with them.

III. Academic standards

1. **Academic reference standards:** The academic standards of family medicine program is adopted and accredited by the departmental council
2. **External References for Standards:**
This program is unique since it incorporated different topics from different disciplines.

IV. Program Admission Requirements

- According to the bylaws of the faculty of medicine Cairo University 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:
 - 1- English language (TOEFL or equivalent degree)
 - 2- Basic Medical statistics (I) MEDC.
 - 3- Basic computer skills MEDC
- Admission to the program is open during July.
- Training prior to registration may be accredited according to departmental evaluation.

Program duration: Three years.

First part :(Table1)

- Duration: 1.5 years
- Total credit points: 65

The candidate should fulfill the following:

1-**Compulsory courses:** 11 credit points divided as following:

- 1- Internal Medicine: 4 credit points
- 2- Pediatrics: 3 credit points.
- 3- Community Medicine: 2 credit points.
- 4- Clinical pharmacology: 1 credit point.
- 5- Medical Ethics: 1 credit point.
 - 2- **Elective Courses:** 1 credit point.
 - 3- **Scientific Activities:** 3 Credit points.
 - 4- **Residency training program phase 1:** 50 credit points.

Second Part : (Table 2)

-Duration: 1.5 years

-Total credit points: 85

The candidate should fulfill the following:

- 1- Compulsory courses: 12 credit points divided as follows:
 - 1-Gynaecology and Obstetrics: 3 credit points.
 - 2-Emergency medicine, traumatology and toxicology: 2 credit points.
 - 3.General Surgery: 2 credit points.
 - 4-Psychiatry: 2 credit points.
 - 5-Dermatology: 1 credit point.
 - 6- ENT: 1 credit point.
 - 7-Ophthalmology: 1 credit point.
- 2- Scientific Activities: 3 credit points.
- 3- Residency training program phase 2: 70 credit points.

Master thesis: (completed during the second part) 20 credit points.

Table 1: First part

| Course | Credit Points | ILOs |
|---|---------------|---|
| 1-COMPULSORY COURSES | | |
| Internal Medicine | 4 | A1 |
| Pediatrics | 3 | A2,A3 |
| Community Medicine | 2 | A4,A5,A6,A7 |
| Clinical Pharmacology | 1 | A8 |
| Medical Ethics | 1 | A9 |
| 2-ELECTIVE COURSES :Candidate chooses 2 courses | | |
| Communication Skills | 0.5 | c8-c10, D5, D6 |
| Critical Reading | 0.5 | 410, B3 |
| Evidence Based Medicine. | 0.5 | A11,C12 |
| Medical statistics (2) | 0.5 | A12,B4 |
| Scientific Writing | 0.5 | A10 |
| 4- SCIENTIFIC ACTIVITIES | 3 | |
| 5- RESIDENCY TRAINING PROGRAM (Phase 1) | 50 | B1, B2, B5, B6, C1,C2,C4-C13 D1-D16 |

TABLE 2: SECOND PART

| Course | Credit Points | ILOs |
|-----------------------|---------------|------|
| 1. COMPULSORY COURSES | | |

| | | |
|--|----|--|
| Gynecology & Obstetrics | 3 | A13,A14 |
| Surgery | 2 | A15 |
| Emergency Medicine, Traumatology & Toxicology | 2 | A16,A17 |
| Psychiatry | 2 | A18 |
| Deramatology | 1 | A19 |
| ENT | 1 | A20 |
| Ophthalmology | 1 | A21 |
| 2-SCIENTIFIC ACTTVITIES | 3 | |
| 3- RESIDENCY TRAINING PROGRAM (Phase 2) | 70 | B1, B2, B5, B6, C1,C3-C13 D1-D16 |

Practical training program:

Phase 1 Training:

According to the new Bylaws, July 2009 for post graduate programs, all the students should have clinical training for 18 months. They will spend 6 months in each of the internal medicine and pediatric departments and 6 months in the emergency departments. During this period the students will attend the compulsory first part courses and they will also complete the elective courses.

Phase2 Training:

All students should complete the second part of the residency training program in the Family Medicine, Gynecology & obstetrics, surgery, orthopedics, psychiatry, dermatology, ENT and ophthalmology departments. They should spend 18 months in order to acquire the needed credit hours. During this period the students will attend compulsory courses of the second part and will participate in the scientific activities of the department.

Master Thesis:

All master-degree students should prepare a thesis in Family Medicine. 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 department such as:

- 1- Seminars.
- 2- Journal clubs.
- 3- Scientific meetings.
- 4- Workshops.
- 5- Conferences.

6- Thesis discussions

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

Regulations for progression and program completion:

After finishing the first part of the residency training, attending the specified courses and collecting the required credit points, the student should pass the first part examination before proceeding to the second part. 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 exam, he should finish the thesis and get approval, complete the second part of the training program, and collect the required credit points. The candidate will receive his degree after passing this final examination. The Master degree should be obtained within a maximum of 6 years after the registration date.

Assessment:

According to the bylaws of the residency, professors carry continuous assessment during the program. A logbook will be kept for each student to document all his/her clinical and 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.

Assessment tools:

- 1- Attendance log book:
- 2- Final examination: divided into:
 - a- Written exam
 - b- Oral exam
 - c- Clinical

Examination description:

Final Examination: Part 1 (Table 3)

This will include the following:

- 1- Internal Medicine: 2 hours written exam + Oral exam + Clinical exam
- 2- Pediatrics: 2 hours written exam + Oral exam + Clinical exam
- 3- Community Medicine: 2 hours written exam + Oral exam
- 4- Clinical Pharmacology: 1 hour written exam
- 5- Medical Ethics: 1 hour written exam

Table3: Distribution of the remarks for the final examination of the first part.

| Course | Duration of the written exam in hours | Written | Oral | Clinical | Total |
|-------------------|---------------------------------------|---------|------|----------|-------|
| Internal Medicine | 2 | 100 | 50 | 50 | 200 |

| | | | | | |
|---|---|----|----|----|-----|
| Pediatrics | 2 | 60 | 45 | 45 | 150 |
| Community medicine | 2 | 75 | 25 | - | 100 |
| Clinical Medical Ethics Pharmacology | 1 | 50 | - | - | 50 |
| Medical Ethics | 1 | 50 | - | - | 50 |

Final Examination: Part 2 (Table 4)

This will include the following:

- 1- Obstetrics & Gynecology: 2 hours written exam + Oral exam + Clinical exam
- 2- General surgery: 2 hours written exam + Oral exam + Clinical exam
- 3- Emergency Medicine, Traumatology & Toxicology: 2 hours written exam + Oral exam
- 4- Psychiatry: 2 hours written exam + Oral exam
- 5- Dermatology: 1 hour written exam
- 6- ENT: 1 hour written exam
- 7- Ophthalmology: 1 hour written

Table 4: Distribution of the marks for the final examination of the second part.

| Course | Duration of the written exam in hours | Written | Oral | Clinical | Total |
|---|---------------------------------------|---------|------|----------|-------|
| Obstetrics & Gynecology | 2 | 80 | 35 | 35 | 150 |
| General Surgery | 2 | 50 | 25 | 25 | 100 |
| Emergency medicine, traumatology and toxicology | 2 | 70 | 30 | - | 100 |
| Psychiatry | 2 | 75 | 25 | - | 100 |
| Dermatology | 1 | 50 | - | - | 50 |
| ENT | 1 | 50 | - | - | 50 |
| Ophthalmology | 1 | 50 | - | - | 50 |

Family Medicine MSC DEGREE PROGRAM MATRIX

| Courses | | A Knowledge and Understanding | | | | | | | | | | B Intellectual Skills | | | | | C Professional skills | | | | | | | | | D General Transferable skills | | | | | | |
|-------------------|--|----------------------------------|---|---|---|---|---|---|---|---|----|--------------------------|---|---|---|---|--------------------------|---|---|---|---|---|---|---|---|----------------------------------|---|---|---|---|---|---|
| | | 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 | 1 | 2 | 3 | 4 | 5 | 6 |
| Internal Medicine | | X | | X | | x | X | | | | | x | x | | x | x | | | x | | | | | x | | | X | | | | X | X |
| Pediatrics | | | | | X | | | X | | X | | | | | | x | | | | | | | x | | x | | x | | x | | x | x |
| Community | | X | X | | X | | X | | X | | | X | | x | x | | X | x | | | | x | | x | | | | | | x | | x |
| Pharmacology | | X | | X | | | X | | | | X | | | | | | | | | | | x | | x | | | | x | X | | | x |
| Ethics | | | X | | | | | X | X | | | X | x | x | | | x | | x | | | | x | | | x | | | | x | | x |

VIII. Evaluation of Program

| Evaluator Tool Sample | Tool | Sample |
|------------------------|--|-------------------------------|
| 1. Senior Students | Questionnaire at the end of the program | All the postgraduate Students |
| 2. External Evaluators | Review the program and courses Attend the final exam. | . Annual report |

Signatures

Date of approval by department: July 2015

Program Coordinator
Maha Abdelrahman Mowafy

Head of the Department
Maha Abdelrahman Mowafy