



Program Specification for MD Degree in Internal Medicine

Program type: Single

Department offering the program: Internal medicine department

Program Code: MED900

Total Credit points: 259 (145 for the previous master degree + 114 MD Degree)

Academic year: 2015/2016

Date of approval: July 2015

External Evaluator: Prof. Dr. Yahia Mostafa Ghanim Professor of Internal medicine Ein-Shams University

I. Aim of the Program

To prepare a consultant with special high standard knowledge and skills who can deal with multisystem medical disorders targeting the specialties of internal Medicine with good management strategies and excellent research skills.

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- Master the basic scientific knowledge related to pathophysiology and pathology of different medical diseases with detailed recent medical treatment of the advanced and complicated diseases in Cardiology, chest, endocrinology, diabetes, neurology, gastroenterology hepatology, rheumatology, genetics, infections, hematology, basic psychiatry.
- 2- Recognize appropriate knowledge about indication, contraindication, complications of different clinical and technical procedures.
- 3- Aware of the areas of research in the field of the updated medicine and to possess excellent knowledge for research conduction

B. Intellectual Skills: By the end of the program the candidate should be able to:

- 1- Acquire proper scientific thinking.
- 2- Design an appropriate diagnostic plan for proper proposal of projects and researches.

3-Analyze symptoms & signs, correlate them to the basic knowledge he had acquired and construct a differential diagnosis for rare and complicated medical problems

4-Acquire advanced experience in one of the basics fields of internal medicine (chosen by the candidate)

C. Professional and Practical Skills: By the end of the program the candidate should be able to:

- 1- Collect clinical data for rare and common medical disorders.
- 2- Offer proper medical treatment for rare and complicated medical problems.
- 3- Acquire extra specialised skills in one of the basics fields related to medicine (chosen by the candidate)
- 4- Understand different scientific methodologies and have critical reading abilities
- 5- Write scientific article according to the basics of scientific research.

D. General and Transferable Skills: By the end of the program the candidate 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 work.
- 5- Achieve Computer skills necessary to make use of medical data bases and use the internet for communication.
- 6- Show leadership skills that enable him to organize work and lead the junior and paramedical staff.

III. Academic standards

1. **Academic reference standards:** The academic standards of Internal medicine program is adopted and accredited by the departmental council
2. **External References for Standards:**
Royal colleague for physicians

IV. Program Admission Requirements

According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), applicants should have Master degree or equivalent accredited degree in the same specialty.

Admission to the program is open during January and July.

Training prior to registration may be accredited according to departmental and hospital requirements.

V. Program Structure and Contents

Program duration: Two academic years

Program structure: Total Credit points 259 (Table 1)

Previous Master degree: 145

- **2 years - Total credit points 259** (Table 1)
 - **Compulsory course;** two academic year (30 weeks each)
 - Advanced General Medicine 12 credit points
 - **Elective courses;** (two courses to be choosed 2 credit points for each)
 - Vascular Medicine
 - Geriatric Medicine
 - Adolescence Medicine
 - Genetics
 - Molecular Biology
 - Endocrinology Medicine
 - Neurology Medicine
 - Hepatology Medicine
 - Clinical Hematology Medicine
 - Cardiology Medicine
 - Infectious disease Medicine
 - Chest Medicine
 - Rheumatology Medicine
 - Gastroenterology Medicine
 - Nephrology Medicine
 - Allergy Medicine
 - **Scientific activities:** 5 credit points
 - **Advanced Residency training program (Part 3):** 55 credit points
 - **Medical Doctorate thesis:** 40 credit points

Table 1:

Courses		Credit Points		
		CPs	Total	
Code	Title			
Previous master degree				145
Compulsory courses (two academic years)				
<i>MED911AGM</i>	Advanced General Medicine	12	12	
Elective courses choose 2 courses				
<i>MED911VM</i>	Vascular Medicine	2	2	
<i>MED911GM</i>	Geriatric Medicine	2		
<i>MED911AM</i>	Adolescence Medicine	2		
<i>MED911HG</i>	Genetics	2		

<i>MED911MB</i>	Molecular Biology	2	
<i>MED911ENDO</i>	Endocrinology Medicine	2	
<i>MED911NEUR</i>	Neurology Medicine	2	
<i>MED911HEP</i>	Hepatology Medicine	2	
<i>MED911HEMA</i>	Clinical Hematology Medicine	2	
<i>MED911CARD</i>	Cardiology Medicine	2	
<i>MED911INF</i>	Infectious disease Medicine	2	
<i>MED911CHET</i>	Chest Medicine	2	
<i>MED911RHEUM</i>	Rheumatology Medicine	2	
<i>MED911GIT</i>	Gastroenterology Medicine	2	
<i>MED911NEPH</i>	Nephrology Medicine	2	
<i>MED911ALLER</i>	Allergy Medicine	2	
Scientific activities			
Scientific activities		5	
RESIDENCY TRAINING PROGRAM			
<i>MED911C</i>	Advanced training	55	
Thesis		40	

Residency Training Program

□ Third Phase: (3rd phase, advanced training):

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 the students should spend at least 18 months in the general medicine 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 advanced general medicine course, attend the outpatient clinics, inpatient section, and share in the academic activities and prepare his thesis and participate in the scientific activities of the department.

Medical Doctorate Thesis

All MD students should prepare a thesis in various branches of internal medicine. 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 general medicine 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 candidates should participate in the scientific activities of the department such as:

- Seminars.
- Journal clubs.
- Scientific meetings.
- Workshops.
- Conferences.
- Thesis discussions.

Each activity is monitored and given credit points registered in a special section in the logbook. Candidates should collect the required points before allowed to sit for final exam.

INTERNAL MEDICINE MD PROGRAM MATRIX

Courses / items		A Knowledge and Understanding					B Intellectual Skills				C Professional Skills					D General and Transferable					
		1	2	3			1	2	3	4	1	2	3	4	5	1	2	3	4	5	6
<i>MED911AGM</i>	Advanced General Medicine	x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911VM</i>	Vascular Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911GM</i>	Geriatric Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911AM</i>	Adolescence Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911HG</i>	Genetics		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911MB</i>	Molecular Biology		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911ENDO</i>	Endocrinology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911NEUR</i>	Neurology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911HEP</i>	Hepatology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911HEMA</i>	Clinical Hematology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911CARD</i>	Cardiology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911INF</i>	Infectious disease Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911CHET</i>	Chest Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911RHEUM</i>	Rheumatology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911GIT</i>	Gastroenterology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911NEPH</i>	Nephrology Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911ALLER</i>	Allergy Medicine		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>MED911C</i>	Advanced Training Program										x	x	x	x	x	x	x	x	x	x	x
	MD Thesis			x							x	x	x	x	x	x	x	x	x	x	

VI. Regulations for Progression and Program Completion

After collecting the required credit points for the respective courses, the advanced residency training, the scientific activities, and the Thesis the student will be eligible to sit for the final examination. In case the student fails to pass the examination, he/she may resubmit for the next examination. The candidate will receive his/her degree after passing this final examination. MD degree should be obtained within a maximum of 6 years after registration date.

VII. Assessment

A: Assessment Tools

□ Supervision and Monitoring of Training Program

According to the Faculty of Medicine, Cairo University Bylaws for practical Training Programs, professors carry continuous assessment during the program. A practical training program logbook will be kept for each candidate to document all his/her practical activities as well as his/her participation in different scientific activities. The head of the department should allow the candidates 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 the program

Advanced general medicine program:

Two written exams 3hs each plus one written exam for a medical problem for 1,5hs plus a clinical and oral exam.

Elective courses exams:

2 written exams one paper for each specialty for 1hs each plus a clinical and oral exam

B: Assessment Schedule:

The written final exam is held twice per year in May, and November.

Day one: 1st written paper

Day two 2nd written paper

Day three: problem solving paper

Day four: 2 written papers for the elective courses one paper for each

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)

* C: clinical exam; P: practical exam

Courses		Marks			
Code	Title	Written	Oral	Clinical	Total
Compulsory course					

MED911AGM		100 + 100 + 100	50 + 50	200	600
Elective courses (choose only 2 courses)					
<i>MED911VM</i>	Vascular Medicine	50	25	25	100
<i>MED911GM</i>	Geriatric Medicine				
<i>MED911AM</i>	Adolescence Medicine				
<i>MED911HG</i>	Genetics				
<i>MED911MB</i>	Molecular Biology				
<i>MED911ENDO</i>	Endocrinology Medicine				
<i>MED911NEUR</i>	Neurology Medicine				
<i>MED911HEP</i>	Hepatology Medicine				
<i>MED911HEMA</i>	Clinical Hematology Medicine				
<i>MED911CARD</i>	Cardiology Medicine				
<i>MED911INF</i>	Infectious disease Medicine				
<i>MED911CHET</i>	Chest Medicine				
<i>MED911RHEUM</i>	Rheumatology Medicine				
<i>MED911GIT</i>	Gastroenterology Medicine				
<i>MED911NEPH</i>	Nephrology Medicine				
<i>MED911ALLER</i>	Allergy Medicine				

Remarks

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

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

Signatures

Date of approval by department:

Program coordinators:

Prof. Mona Mansour

Assit. Prof. Serag Esmat

Assit. Prof. Randa Fayez

Head of Department

Prof. Ibrahim Naguib Elebrashy

