



MD Program Specification of Infectious diseases and Endemic Hepatogastroenterology

Program type: Single

Department offering the program: Endemic Medicine Department.

Program Code: ENDM 918C

Total credit points: 276 points

Academic year: 2015-2016

Date of approval: January 2011

Program Coordinators: Prof. Ayman Yousry

External evaluators: Prof Abdel Rahman El-Zayaty and Mohamed Shaker, Professor of Endemic Medicine and Hepatogastroenterology Ain Shams University

I. Aim of the Program

The aim of this program is to provide the candidates with

- clinical and investigatory skills in all aspects of infectious and hepatogastrointestinal practice while applying the national and international standards of evidence based medicine.
- ability to interact with community problems and respect ethical values according to community culture.
- scientific knowledge and intellectual skills to engage in medical education and to design, conduct and apply national and international standards of research as well as auditing.

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 main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT as well as the molecular mechanisms underlying these disorders and their management
 2. Identify the principles behind the modern cellular and molecular techniques behind the immune resistance to infection and drug mechanism of action.
 3. Recognize the value of each diagnostic tool including laboratory, endoscopy and abdominal ultrasonography, their limitations, complications and cost benefit.
 4. Recognize the basic research regarding pathophysiology of main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT



5. **D**emonstrate areas of research in the field of main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT leading to development of new diagnostic procedures and innovative therapies
6. Describe in depth and detail the development of current management modalities for different main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT
7. **I**llustrate advanced knowledge in one of the basics fields related to main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT
8. **E**valuate advanced knowledge in gastrointestinal endoscopy or abdominal ultrasonography.

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

1. Analyze symptoms & signs, correlate them to the basic knowledge he had acquired and construct a differential diagnosis for main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT complaints.
2. Design an appropriate diagnostic plan for evaluation of main and rare infectious categories and diseases that may affect the hepatobiliary system and GIT complaints taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.
3. Set up treatment plans for main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT problems taking into account the cultural and individual needs.
4. Acquire the ability to develop new and innovative solutions to different main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT problems
5. Acquire extra skills in one of the basics fields related to main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT
6. Plan a proper management of different critical cases in main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT as febrile coma, fulminant hepatitis ...etc
7. Audit researches, thesis applied for master or MD degrees , papers submitted for publication.
8. Acquire advanced ability to interpret findings in gastrointestinal endoscopy or abdominal ultrasonography

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

1. Collect clinical data for main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT
2. Perform new clinical procedures related to refractory ascites, fulminant hepatic failure, irritable bowel syndrome, irritable bowel disease, diagnosis of acute febrile illness.



3. Perform common techniques and procedures related to basic research in the field of main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT
4. Offer proper medical treatment for main and rare infectious disease categories and diseases that may affect the hepatobiliary system and GIT
5. Perform advanced abdominal ultrasound ,interventional ultrasound or gasterointestinal endoscopy skills and manage uncommon complications related to infectious disease and the hepatobiliary system and GIT .

D. General and Transferable Skills: By the end of the program the candidate should be able to:

1. Communicate with other colleagues, researchers and health care providers.
2. Construct team working for research.
3. Master Computer skills necessary to make use of medical databases and use the Internet for communication.
4. Show administrative and leadership skills that enables him to f to organize work and lead the junior staff.
5. Aquire abilities to train and teach junior staff members
6. Implement different scientific methodologies and have critical reading abilities
7. Write scientific article according to the basics of scientific research.
8. Convey his knowledge to junior and senior colleagues and students.
9. Present data and knowledge efficiently in, lectures and conferences

III. Academic standards

1. Academic reference standers: The academic standers of infectious disease and endemic hepatogasterenterology program is adopted and accredited by the departmental council.

2. External References for Standards: This program is unique since it incorporates different topics from different disciplines including infectious diseases and hepatogasteroenterology.

IV. Program Structure and Contents

Program duration: 2-6 years

Program structure:

Courses		Credit Points		ILOs
Code	Title	CPS	Total	



COMPULSORY COURSES				
ENDM 918 INFD	Infectious disease	6		A2-8, B1-7, C1-8,D1-9
ENDM 918 HGIT	Hepatology and gasterenterology	6		A1-8, B1-7, C1-8,D1-9
ENDM 918 HICU	Hepatology intensive care	6		A6-7, B7, C8,D1-9
Clinical training		56		A1-8,B1-7,C1-6,D1-8
ELECTIVE COURSES				
ENDM 918 AUS	Abdominal ultrasonograohy	2		A8,B8, C7
END	Gasterointestinal endoscopy	2		A8,B8, C7
SCIENTIFIC ACTIVITIES				
		4		
THESIS				
		40		

MD Thesis:

All MD degree students should prepare a thesis in. The research and ethical committee 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 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.

Clinical training:

All candidates should complete the third part of the residency training (phase 3 advanced training) program in the Endemic medicine department. Candidates will have to attend on full time basis 8 hours daily, six days a week for 18 months, spending 6 months in ICU. The candidates t is expected to be trained under the supervision of senior staff members. The training rotation should concentrate on acquiring practical (hands on) skills in:

- Implementation of infection control strategy in working areas
- Dealing with epidemics, imported infections, newly diagnosed infections, over whelming infections
- Dealing with rare cases in hepatology and gasterenterology.
- Dealing with emergency cases in infections and hepatogatreterology (attending emergency sclertherapy febrile coma,... etc)
- various procedures as liver biopsy in addition to applying the practical knowledge in interpretation of investigations results and their impact on patient care, knowing their limitations and cost benefit.

V. Assessment

A: Assessment Tools

- **Supervision and Monitoring of Training Program**

According the Faculty of Medicine, Cairo University Bylaws for practical Training Programs, professors carry continuous assessment during the program. A clinical 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.

- **Formative Assessment: Not available**

- **Summative Assessment**

- **Written examination:** The exam is set by a committee of 2 senior professors headed by the head of the department
- **Clinical exam:** The exam is attended by 3 professors .Cases are chosen by 2 professor and an assistant professor
- **Oral examination:** The exam is attended by a committee of 4 professors.
- **Practical exam:** is prepared by 2 professors and 2 assistant professors
- **OSCE :**is prepared by 5 professors and 5 assistant professors



B: Assessment Schedule:

- Infectious diseases: written exam duration of the exam 3 hours, and an oral exam, practical exam, and a clinical exam.
- Hepatology and gastroenterology: written exam duration of the exam 3 hours, and an oral exam, practical exam, and a clinical exam.
- ICU duration of the exam 3 hour an oral and clinical exam
- Elective courses a written exam of 3 hour duration and a clinical exam.

C: Weighing Of Assessment (Marks allocated to courses):

(50 marks for each credit point)

Courses		Marks			
Code	Title	Written	Oral/ OSPE	Clinical/ OSCE	Total
ENDM 918 INFD	<i>Infectious diseases (Advanced)</i>	150	75	75	300
ENDM 918 HGIT	<i>Hepatogastroenterology (Advanced)</i>	150	75	75	300
ENDM 918 HICU	<i>Hepatology ICU(Advanced)</i>	150	75	75	300
ENDM 918 AUS	<i>Abdominal ultrasound</i>	50	25	25	100
ENDM 918 END	<i>GIT endoscopy</i>	50	25	25	100
Total					1000

Remarks

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



VIII. Evaluation

Date of approval by the department's council:

Evaluator	Tool	Sample
1. Senior Students	Questionnaire at the end of the program	Sample of the postgraduate students
2. External Evaluators	Review the program and courses Attend the final exam.	Annual report aside of the department annual post graduate course

Signature:

Program Coordinator

Head of the Department



Courses	A Knowledge and Understanding											B Intellectual Skills					C Clinical Skills										D Attitudes						
	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	10	1	2	3	4	5	6	7
Infectious diseases	x	x	x	x								x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
hepatology	x	x	x	x								x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
gasterenterology	x				x	x	x							x	x	x	x	x					x	x	x		x	x	x	x	x	x	x
ICU								x				x	x	x								x				x		x	x				x
Abdominal ultrasound									x						x												x	x	x	x	x	x	x
Gasterintestinal endoscopy	x	x	x	x								x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Residency Training Program (phase 2) advanced	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MD	x	x	x	x	x	x						x	x	x	x	x	x	x					x	x	x	x	x	x	x	x	x	x	x