

University : Al Azhar
Faculty : Medicine
Department : Parasitology

PROGRAM SPECIFICATION

Year: 2013/2014

A- Basic information:

- 1- Program title: Master degree of Parasitology
- 2- Nature of the program: academic and practical
- 3- Department responsible for the program: Parasitology Department

B- Specialized information:

1. General objective of the program:

- 1/1 To provide graduates with knowledge concerning biological, epidemiological and ecological aspects of parasites causing diseases to humans.
- 1/2 To enable graduates to understand the pathogenesis, clinical presentations and complications of these diseases.
- 1/3 To enable students to reach diagnosis and know the general outline of treatment, prevention and control of parasitic infections.
- 1/4 To provide students with adequate knowledge about endemic parasites and national parasitic problems.

2. Intended Learning Outcomes from the program:

2/1- Knowledge and understanding:

- a- Describe the world distribution of important parasitic infections and explain the factors determining such distribution and their socioeconomic impact on the community.
- b- Describe the morphology and life cycle of parasites of medical importance.
- c- Describe pathogenesis, clinical signs and symptoms and complications of parasitic infections.
- d- Outline the treatment for various parasitic infections and mention the methods of prevention and control of infection on individual and community levels.
- e- Discuss the methods of recovery of parasites from environmental samples and their culture methods.

- f- Describe common arthropods of medical interest and explain their medical importance and methods of combat.
- g- Outline fundamental immunology and molecular biology applicable in Parasitology to achieve better and accurate diagnosis.
- h- Enumerate complications associated with manipulation of infectious materials, relevant to parasitology, especially in hospitals.

2/2- Intellectual skills:

- a- Interpret the most important signs and symptoms of important parasitic infections of endemic character (using case study).
- b- Choose the best-suited laboratory investigations for each parasite and interpret the clinical and laboratory findings to reach a proper diagnosis.

2/3- Skills:

2/3/1 Professional and practical skills:

- a- Identify microscopically different parasites as well as their different stages (eggs, cysts and larvae) or any of their body parts (segments, hooks and scolices) in urine or stool samples.
- b- Diagnose haemoparasites detectable in blood films.
- c- Identify parasites and their different stages through examination of mounted slides.
- d- Identify different parasites in tissue sections and demonstrate their reactions in such tissues by naked eye (Jars).
- e- Identify arthropods of medical importance through examination of whole body or any part in mounted specimens.

2/3/2 General skills:

- a- React positively with any parasitic problem on a national level. i.e. Bilharziasis or filariasis.
- b- React positively with national campaigns, which are conducted to combat endemic parasitic infections by M.O.H.P.
- c- Work in a multi disciplinary health care team to solve parasitic problems in the community.
- d- Respect the role of staff and co-staff members regardless of degree or occupations.

3- Academic standards of the program:

- 3/1 Fundamental knowledge on medical Parasitology to provide the graduate with a detailed thorough knowledge of the general characteristics of parasites, their life cycles and medical importance, followed by experimental studies.
- 3/2 Discussion of transmitting principles and prevention of human parasites and providing the graduate with a broad knowledge of parasitic diseases in man, including the zoonotic parasites which are transmitted from animals to man, and their prevention and control in general.
- 3/3 Through training in the basic concepts of parasitism and transmission principles through group projects.
- 4/3 Providing the graduate with knowledge on food, water, and environmentally transmitted parasitic diseases, focusing on disease prevention based on epidemiological surveillance and discussion of new methods of diagnosis.
- 4/4 Acquiring scientific and methodological skills leading to a capacity of gathering scientific information, working thematically and with a problem-based approach, applying specific knowledge and tools to conduct research in human Parasitology.

4- References “benchmark”:

- 4/1 ACGME (Accreditation Council for Graduate Medical Education).
[http:// www.acgme.org/acwebsite/navpages/nav.public.asp](http://www.acgme.org/acwebsite/navpages/nav.public.asp).

5- Structure and content of the program:

- A- Time duration of the program: (2-4 years).
- B- Structure of the program:
 First part :
 Second part:

	lectures	Practical	total
Basic Scientific Courses	-----	-----	-----
Social and Human Sciences	-----	-----	-----
Course of Specialized Sciences			
Course of Other Sciences	-----	-----	-----
Field Practice			

C- Courses of the program:

First part: 30 % of the final marks

The program included a related subject to Parasitology (as Microbiology).

The examination after 12 month from applying the master degree.

Second part: 70% of the total marks. Minimum 2 years.

Third part : No marks. Msc Thesis

Code number	Course Title	Number of Units	Number of hours/Week			Study year
			Lecturers	Practical	Tutorials	
700-Par-Ms	Master degree of Parasitology	6				2-4

5- Course contents:

Code	Title	Percent
	First part	
	The candidate choose one course related to Parasitology as Microbiology for studying one year.	
	Second part	
	1- Medical parasitic Helminthology	31 %
	2- Medical parasitic Entomology	31 %
	3- Medical parasitic Protozoology	32 %
	4- Zoonosis	1 %
	5- Immunoparasitology	2.5%
	6- Molecular Parasitology	2.5%

7- Pre-requests for admission to the program:

The candidate must be graduated from any approved Faculty of Medicine with at least grade good.

The candidate must have fluent English

8- Methods and rules for assessment for attendance of the program:

Method	What to measure ILOs
1-Written examination: a- structured short questions. b- objective questions c- MCQ d- problem solving	
2- Practical OSPE	
3- Structured oral	
4- Log book assessment	all
5- Research assignment	

9- Methods of evaluation of the program:

Evaluator	Method	Sample
1- end year students		
2- graduates		
3- business men		
4- external evaluator or examiner		
5- other methods		

Coordinator of the program

**Prof. Dr: Samir Abd El Razek Shahat
Head of the Department**