



Mansoura University
Faculty of Medicine
Medical Parasitology Department

Medical Parasitology Department

3rd Year Medical Students

Student's Logbook

Personal data

Student's name:

Student's ID:

Section number:

Section supervisors:

Preface

Dear students

Welcome to the Department of Medical Parasitology at the beginning of the third year of medical education. The Department's mission is to enhance the international stature of Mansoura Faculty of Medicine by combining high quality teaching with internationally recognized research.

This booklet is a document of your attendance and your activities during the practical classes (specimen and slide identification) and the students presentation.

Lastly, I wish you a useful and applicable study of medical Parasitology during this year.

Head of the department
Prof Dr. Hala Ahmed Gaber El-Nahas

A. Basic information:

Title: Medical Parasitology

Total marks: 150

Code: PAR

Program (s) on which this course is given: M.B.B.cH

Year / level of program: 3rd year Medical students.

Lectures: 2 hours/week

Practical: 2 hours/week

Student presentation ½ hours / week

Total teaching hours: 4 ½ hours / week.

B- Professional Information:

Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding

- a.1. Describe the morphological characteristics, life cycles, methods of transmission of medically important Helminths.
- a.2. Describe the morphological characteristics, life cycles, methods of transmission of medically important Protozoa.
- a.3. Describe the morphological characteristics, life cycles and recognize diseases caused or transmitted by medically important Arthropods.
- a.4. Know the geographical distribution of important parasites.
- a.5. Explain host-parasite interaction, how parasites harm their hosts and the major immunological responses underlying this.
- a.6. Recognize clinical picture associated with parasitic infections.
- a.7. Describe the different diagnostic techniques for detecting parasites.
- a.8. Classify the major groups of antiparasitic drugs and Know the different prophylactic strategies to control parasitic diseases.
- a.9. Describe opportunistic parasites and list zoonotic and nosocomial infections.

b- Intellectual Skills

b1- Solve problem based exercises .

b2- Choose the suitable diagnostic techniques concerning the parasitic problems encountered (microscopy , serology or molecular ... etc)

- b3- Interpret the clinical and laboratory findings to reach the proper diagnosis .
- b4- Design guidelines for a control program for a particular parasitic disease

c-Professional and Practical Skills

- c1- Identify parasites, their different stages or their body parts
- c2- Examine mounted slides and identify their contents
- c3- Apply the principles of diagnosis, treatment and control of parasitic diseases.
- c4- Know how to manipulate infections material in a lab or hospital.
- c5- Examine laboratory specimens (body fluids, excreta or infected tissues).
- c6- Apply the proper measures of infection control in a hospital

d-General and Transferable Skills

- d1- Review the scientific literature on a research topic
- d2- Work in a multidisciplinary care team to solve community parasitic problems .
- d3- To communicate with health authorities and who as regards exotic and newly emergent
- d4- Parasitic diseases or outbreaks caused by parasites.
Able to react positively with the national campaigns which are conducted to combat parasitic infections.

C-Student assessment:

method of assessment	Marks	percentage of total
Mid year examination	25	16.7%
Log book and Student presentation	5	3.3 %
Practical	30	20 %
structured oral examination	15	10 %
Final written examination	75	50 %

D- Teaching and Learning Methods:

- Lectures.
- Practical lessons.
- Tutorial sessions after the practical lessons.
- Enhancing self learning of students by preparing a power point presentation on one of the parasitic diseases.

Curriculum Content

Part I:

Introduction & helminthology

-Introduction to parasitology

-Helminthology:

***Trematoda**

-Introduction & Fasciola species

-Heterophyes heterophyes

-Paragonimus westermani

-Schistosoma species

***Cestoda**

-Introduction

-Diphyllobothrium species

-Taenia species

-Echinococcus species & Multiceps multiceps

-Hymenolepis species

-Extraintestinal Cestodes

***Nematoda**

Intestinal nematodes

-Introduction

-Ascaris lumbricoides

-Trichuris trichiura

-Enterobius vermicularis

-Hook worms

-Trichostrongylus & Strongyloides

-Capillaria philippinensis

-Trichinella spiralis

Tissue nematodes

-Dracunculus medinensis

- Wuchereria bancrofti & Brugia malayi
- Onchocerca volvulus & Loa loa
- Larva migrans (visceral and cutaneous).

Part 2:

Protozoology

Intestinal protozoa

- Introduction & Entamoeba histolytica
- Commensal amoebae & Balantidium coli
- Giardia lamblia
- Cryptosporidium parvum
- Cyclospora & Isospora
- Urogenital protozoa

Blood & tissue protozoa

- Plasmodium species & Babesia
- Leishmania species
- Trypanosomes
- Toxoplasma gondii
- Free living amoebae
- Opportunistic protozoa

Part 3:

Entomology

- Introduction & Mosquitoes
- Phlebotomus spp, Simuliidae ceratopogonidae & Tabanidae
- Muscidae
- Calliphoridae& Oestridae, Myiasis
- Fleas –Lice –Bugs
- Ticks
- Mites
- Scorpion –Cyclops
- Control of arthropods & Insecticides

Part 4:

Immunology & molecular parasitology

- Types of immunity & mechanisms
- Vaccination, immunopathology.
- Molecular Parasitology.
- Evasion.
- Immunodiagnosis.

Attendance of Classroom Teaching

Date	Topic	Student presentation	Staff name & signature
1 st week			
2 nd week			
3 rd week			
4 th week			
5 th week			
6 th week			
7 th week			
8 th week			
9 th week			

10 th week			
11 th week			
12 th week			
13 th week			
14 th week			
15 th week			
16 th week			
17 th week			
18 th week			
19 th week			
20 th week			

21 st week			
22 nd week			
23 rd week			
24 th week			
25 th week			
26 th week			
27 th week			
28 th week			
29 th week			
30 th week			

Blueprint

الوزن النسبي للساعة التدريسيه =1
درجات الإمتحانات النظرية =120
عددالساعات التدريسيه النظرية =120

Topics	No of hours	الوزن النسبي للساعة التدريسيه 120/120	الدرجة المخصصة
Introduction	3	1x3	3
Trematodes	15	1x15	15
Cestodes	11	1x11	11
Nematodes	28	1x28	28
Porotzoa	34	1x34	34
Arthropodes	22	1x22	22
zoonosis	1	1x1	1
Immunologyof parasitic diseases	1	1x1	1
Nosocomial &opportunistic parasitic infection	1	1x1	1
Molecular parasitology	1	1x1	1
Laboratory techniques	4	1x3	3