

**Template
for Course Specifications
2015-2016**

Faculty : Medicine
Department : Medical Parasitology

Course Specifications

Programme(s) on which the course is given : M.B.B.ch
Major or minor element of programmes : major
Department offering the programme : Faculty of Medicine
Department offering the course : Medical Parasitology Department
Academic year / level : 3rd year medical students
Date of specification approval : 4/2016

A- Basic information

Title: Medical Parasitology Code: PAR
Lecture: 2 h Tutorial ½ h Practical 2 h Total: 4½ h (hour/week)
Total hours: 120 hours

B- Professional Information

1 - Overall Aims of Course

The main aim of medical parasitology course is to provide the student with knowledge essential for the general practitioner related to parasites of medical significance regarding their biology and life cycle; host parasite relationship; environmental and host factors regulating parasitic diseases transmission pattern and how to prevent it; parasites causing alternation in the structure and function of human organs and the different methods of management and control of parasitic diseases. In addition, to provide the student with the skill And attitude of observation, interpretation and integration of data needed to diagnose human parasitic infections.

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding

- a.1. Describe the morphological characteristics, life cycles, methods of transmission of medically important helminthes.
- a.2. Recognize 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. Illustrate the geographical distribution of important parasites.
- a.5. Explain how parasites harm their hosts and the major immunological responses underlying this.
- a.6. Discuss clinical picture associated with parasitic infections.
- a.7. List the different diagnostic techniques for detecting parasites.
- a.8. Describe the plan of treatment of each parasitic disease.
- a.9. List the preventive measures to avoid parasitic infections..

b- Intellectual Skills

- b1- Interpret different clinical presentations and correlate them to suspected parasites
- b2 Choose the suitable diagnostic techniques concerning the parasitic problems encountered (microscopy, serology or molecular.. etc)
- b3- Differentiate and compare similar stages of different parasites.
- b4- Plan a control program for a particular parasitic disease

c-Professional and Practical Skills

- c1- Manage infectious material in a lab and apply the proper measures of infection control

- c3 Elicit findings in mounted slides and identify different parasites
 c3- Elicit findings in laboratory specimens.
 c4- Interpret the results of examination of parasitic specimens.

D-General and Transferable Skills

- d1 Retrieve recent data from web sites
 d2 Acquire presentation skills
 d3 Work productively in a team.
 d4 Communicate effectively and respectively with colleagues, supervisors and staff members

3 – Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Introduction	3	2	1
Trematodes		7	8
• Liver fluks	6		
• Heterophyes + lung fluks	4		
• Schistosomes	5		
Cestodes		5	6
• Diphyllbothrium	1		
• Sparganosis	2		
• Taenia	1		
• cysticercosis	2		
• Hydatid disease	2		
• Coenurosis	1		
• Hymenolepis	1		
• Dipylidium	1		
Nematodes		12	16
• Ascaris+ Toxocara	5		
• Hook worms + Enterobius	5		
• Strongyloides + Larva Migrans	5		
• Trichuris+capillaria	5		
• Trichinella	3		
• Filaria	5		
Protozoa		16	16
• Amoeba	10		
• flagelates	10		
• Apicomplexia	10		
• Ciliates	2		
Arthropods		10	11
• Insecta	7		
• Archnida	7		
• Crustacea	7		
Immunology of parasitic diseases.	2	2	
Zoonoses	1	1	
Nosocomial and opportunistic parasitic infections	1	1	
Molecular parasitology	2	2	
Laboratory techniques	4	2	2

4 – Teaching and Learning Methods

- 4.1- Lectures.: small group teaching
 4.2- Practical lessons
 4.3- Tutorial sessions after the practical lessons
 4.4- Enhancing self learning of students (students' presentations)

5 – Student Assessment Methods :

	A									B				C				D			
	A1	A2	A3	A4	A5	A6	A7	A8	A9	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Written Exams: (Short Essays)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
Written Exams: (MCQ)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
Structured Oral Exams	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓								
Objective Structured Practical Exams (OSPE)	✓	✓	✓							✓	✓	✓			✓	✓	✓				✓
Student presentation														✓				✓	✓	✓	✓

Assessment Schedule

- Assessment 1 Mid Term exam: at the end of the 1st term
 Assessment 2 Final written exam: at the end of the year
 Assessment 3 Structured Oral exam: at the end of the year
 Assessment 4 Objective Structured practical exam: at the end of the year
 Assessment 5 Semester work (student presentation) and log book

Weighting of Assessments (Mark+ percentage)

Mid-Term Examination	(25 marks)	16.7%
Final-Term Examination	75 marks	50%
MCQs	25 marks	33%
Short essay questions	50 marks	67%
Structured Oral Examination	15 marks	10%
Objective Structured Practical Exams (OSPE)	30 marks	20%
Semester work and log book	5 marks	3.3%
Total	150 marks	100%

6 – List of References

- 6.1- Course Notes
 6.2- Essential Books (Text Books)
 6.3- Recommended Books
 6.4- Periodicals, Web Sites, ...etc
- 1- Practical notes
 2- MCQ and clinical cases notes
 Department book
 Clinical Parasitology . A Practical Approach,2013
 a-Basic clinical Parasitology (Brown and Neva)
 b- Colored Atlas of Parasitology
 c- Medical Parasitology (Markell, vogue, and John)
 d- Tropical medicine and Parasitology (peters and Gills)
 -Parasitology today (Trends in Parasitology) Journal.
 - Advanced pubmed web sites.
 - CDC website.

7 – Facilities Required for Teaching and Learning

- 1- Microscopes (binocular).
- 2- Microscopic slides.
- 3- Data-show projector.
- 4- Smart board.

Course ILOs matrix**a. Knowledge and Understanding**

	a1	a2	a3	a4	a5	a6	a7	a8	a9
Introduction	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trematodes	✓			✓					
Cestodes	✓			✓					
Nematodes	✓			✓					
Protozoa		✓		✓					
Arthropods			✓	✓					
Immunology of parasitic diseases.							✓		
Zoonoses									✓
Nosocomial and opportunistic parasitic infections									✓
Molecular parasitology							✓		
Laboratory techniques									✓

b. Intellectual Skills:

	b1	b2	b3	b4
Introduction				✓
Trematodes	✓	✓	✓	✓
Cestodes	✓	✓	✓	✓
Nematodes	✓	✓	✓	✓
Protozoa	✓	✓	✓	✓
Arthropods	✓	✓	✓	✓
Immunology of parasitic diseases.	✓	✓	✓	✓
Zoonoses	✓	✓	✓	✓
Nosocomial and opportunistic parasitic infections	✓	✓	✓	✓
Molecular parasitology			✓	✓
Laboratory techniques			✓	✓

c. Professional and Practical Skills

	C1	C2	C3	C4
Introduction				
Trematodes		✓	✓	✓
Cestodes		✓	✓	✓
Nematodes		✓	✓	✓
Protozoa		✓	✓	✓
Arthropods		✓	✓	✓
Immunology of parasitic diseases.				
Zoonoses				✓
Nosocomial and opportunistic parasitic infections				
Molecular parasitology			✓	✓
Laboratory techniques	✓		✓	✓

d- General and Transferable Skills

	D1	D2	D3	D4
Introduction			✓	
Trematodes	✓			
Cestodes				
Nematodes	✓			
Protozoa	✓			
Arthropods	✓			
Immunology of parasitic diseases.				
Zoonoses	✓	✓	✓	
Nosocomial and opportunistic parasitic infections	✓		✓	
Molecular parasitology	✓			
Laboratory techniques	✓	✓	✓	✓

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