Parasitology
Course Specifications

Second year of MD. Program

Department offering the course: Parasitology and Mycology

Course coordinator: Professor Hossein Yousofi Darani

Overall aims:

1- To provide students with adequate knowledge about endemic parasites, national parasitic problems and common parasites worldwide.
2- To provide student with knowledge concerning biological, epidemiological and ecological aspects of parasites causing diseases to humans
3- To enable students to understand the pathogenesis, clinical presentations and complications of parasitic infections
4- To enable students to know basic diagnostic features, treatment and prevention and control of parasitic diseases

Intended learning outcomes:

By the end of the course, students should be able to:

Describe the morphology and life cycle of parasites of medical importance

Describe pathogenesis, clinical signs and symptoms and complications of parasitic infections

Mention treatment, the methods of diagnosis, prevention and control of infection on individual and community levels

Intellectual skills

By the end of the course, students should be able to: Interpret specific symptoms and signs caused by certain parasitic infection

Choose the best laboratory investigation to verify the presence of certain parasite and interpret the clinical and laboratory findings to reach a proper diagnosis

Choose the most suitable method for control of a parasitic infection in the community

Professional and practical skills

By the end of the course, students should be able to:

1-Use the simple microscopes

2- identify the microscopic morphology of parasites and their larval stages in fixed stained smears

Times: The second term of 1403-1404

Lectures: Mondays: 8-10

Practical sessions: Mondays 2-4

Student assessment Methods:

1-Multiple choice questions to assess Knowledge and understanding and intellectual skills

2- Practical exam to assess professional and practical skills

Assessment schedule:

1-Midterm exam after the seventh week.

2-Final exam according the university exams schedule.

3-Practical exam: following the last session

4-Quizzes During the academic Term

Weighting of assessments:

Midterm exam: 7/20

Final exam: 9/20

Practical exam: 4/20

References:

Markell, John, Krotoski, Medical parasitology, 1999; W.B. Saundders Company, USA

Course contents (lectures):

Row	Date	Time	Title	Professor
1	11/15	8-10	Introduction to parasitology, Terms and definitions	Dr. Yousofi
2	11/22	8-10	Ascaris lumbricoides, Hook worms, Strongyloides stercoralis	Dr. Yousofi
3	11/29	8-10	Trichostrongylus spp., Trichinella spiralis, Trichuris trichiura, Entrobious vermicularis	Dr. Yousofi

3	12/6	8-10	Larva migran, Filaria	Dr. Yousofi
5	12/13	8-10	Termatoda, Fasciola hepatica and other hepatic flukes, Intestinal flukes, Paragonimus westrmani	Dr. Yousofi
6	12/20	8-10	Schistosoma, Cestoda, Taenia saginata and taenia solium	Dr. Yousofi
7	12/27	8-10	Echinococcus spp., Dipylidium caninum, diphylibothrium latum, Hymenolepis nana	Dr. Yousofi
8	1/18	8-10	Arthropoda	Dr Abtahi
9	1/25	8-10	Arthropoda	Dr. Abtahi
10	2/1	8-10	Introduction to protozoa, Entamoeba spp, other Eomeba	Dr. Pestechian
11	2/8	8-10	Giardia lambilia, Trichomonas vaginalis	Dr. Pestechian
12	2/15	8-10	Intestinal sporosoa and microspora	Dr. Pestechian
13	2/22	8-10	Leishmania	Dr. Pestechian
14	2/29	8-10	Trypananosma	Dr. Eslami
15	3/5	8-10	Toxoplasma	Dr. Eslami
16	3/12	8-10	Plasmodium spp.	Dr. Eslami

Course contents (Practical):

Row	Date Monday	Time	Practical works	Groups	Professor
1	2/1	10-12	Laboratory diagnosis of parasitic diseases	1	Dr. Yousofi
2	2/8	10-12	Different stages of some Nematoda (demonstrations)	1	Dr. Eslamii
3	2/15	10-12	Different stages of some Termatoda and Cestoda (demonstrations)	1	Dr. Eslami
4	2/22	10-12	Arthropoda (demonstrations)	1	Dr. Abtahi
5	2/29	10-12	Intestinal protozoa (demonstrations)	1	Dr. Pestechian
6	3/5	10-12	Blood and tissue protozoa (demonstrations)	1	Dr. Pestechian