

Name of the module: Parasitology

Number of module: 4718-2216

BGU Credits: 2

ECTS credits:

Academic year: 2nd year Medicine

Semester: second semester

Hours of instruction: Tue 08:00-10:00
(10 frontal lectures). Wed 12:00-17:00 (3
laboratories and exams)

Total teaching time: Lectures 20 hours,
labs and exams 15 hours

Location of instruction: Deichmann
Building for Health Professions.
Specific classroom numbers are
assigned yearly.

Language of instruction: Lectures will
be given in Hebrew.

Cycle: B. Med.Sc.

Position: Obligatory for 2nd year
preclinical medical students

Field of Education: Parasitology

Responsible department: The
pediatric Infectious disease unit.

General prerequisites: Biochemistry
A, Cell Biology

Grading scale: Successful passing of
the exam with a score of 65 or higher.

Module Description: Provides the students with basic knowledge of the principles
of clinical parasitology

Aims of the module: The module invokes understanding of the principles of
parasitology

Objectives of the module: Each student will (1) develop a conceptual understanding of
the basic principles of parasitic diseases pathophysiology; (2) understand the clinical
manifestations of major parasitic diseases; (3) understand how these principles apply to the
diagnosis and treatment of parasitic diseases.

Learning outcomes of the module: On successful completion of the course, the
student should be able to:

1. Develop basic understanding of parasitic diseases pathophysiology
2. Develop problem-solving and critical-thinking skills
3. Learn to integrate and apply key concepts of parasitological diseases
clinical presentation, diagnosis and treatment

Attendance regulation: Attendance to the lectures is not obligatory, attendance to
laboratory presentations is obligatory

Teaching arrangement and method of instruction: Instruction in the course is based
on frontal oral lectures, demonstrative laboratory classes, computer exercises and
3 short tests.

Lecturer: Shalom Ben-Shimol

Contact details:

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Office hours: By appointment

Module evaluation: at the end of the semester the students and the lecturer will evaluate the course.

Confirmation: the syllabus was confirmed by the faculty academic advisory committee to be valid on 2012 (academic year)

Last update: 10/2015

Assessment:

Students will be assessed in the module only by passing an exam with a score of 65 or higher, and by extra credit based on submission of laboratory reports.

Work and assignments: Solving clinical cases, submitting laboratory reports, and reading the relevant text book chapters (before lecture as a preparation, and after it as a review).

Time required for individual work: In addition to attendance in class (20h), 3 quizzes (3h) and demonstrative laboratories (6h), the students are expected to hand in written assignments (lab reports), review the lectures and read the relevant book chapters. This course requires substantial work by the students after the lectures to process the learnt material and to generalize the concepts that were taught. Approximately 30 additional minutes are necessary per lecture (10 lectures). Three quizzes' require each approximately 1 hour of preparation and 1 hour to solve. Three demonstrative laboratories require 2 hours of preparation and 2 hours to solve.

Total: 38-40h.

Course Content\ schedule and outlines:

- Introduction to parasitology
- Leishmaniasis
- Trypanosomiasis
- Malaria
- Opportunistic infections (toxoplasma, cryptosporidium)
- Intestinal protozoal infections (Amoeba, giardia, blastocystis)
- Nematodes (round worms) – intestinal and tissue nematodes
- Cestodes (tapeworms)
- Trematodes (flat worms)
- Ectoparasites

Three demonstrative laboratories and tests:

- Leishmaniasis, Trypanosomiasis and Malaria
- Opportunistic infections, Intestinal protozoal infections and intestinal nematodes
- Cestodes, Trematodes and tissue nematodes

Textbooks:

Markell.E.K. : John, D.T. & Krotoski. W.A. (2006) **Medical Parasitology**. 9th ed. W.B. Saunderson Comp.

Wallace Peters & Geoffrey Pasvol. **Atlas of Tropical Medicine and Parasitology**. 6th edition (2006) Mosby.

Stephen Gillespie & Richard D. Pearson. **Principles and Practice of Clinical Parasitology**. 1st edition (2001), Wiley.

Additional reading material:

Gordon C. Cook & Alimuddin Zumla. **Manson's Tropical Diseases**; 22nd edition (2008) Saunders Ltd.