



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Parasitology

Curricular Year: 2nd

Duration: 1st Semester

Credits: 8 ECTS

Teachers: Luís Carvalho (CCP); Isabel Fonseca (R); Alexandre Leitão; José Meireles.

Contact Hours: 104H Total.

52H Lectures; 52H Practical and laboratory teaching.

Learning objectives:

The theoretical and practical study of Aracnoentomology, Protozoology and Helminthology will enable the student to recognize the most common parasites of domestic, wild and aquatic animals and man, and to perform some parasitological laboratory diagnostic techniques. A dynamic perspective on the concepts of parasitism will progressively prepare the student for other areas of scientific knowledge such as Clinics, Animal Health and Production, Inspection of Animal Products and Veterinary Public Health.

Program contents:

General and basic concepts: the phenomenon of parasitism and aspects relating to the parasite, the host and the host-parasite relationship. Concepts of biological types of parasite association; types of parasitism; adaptation to the parasitic form; parasite specificity; parasite localization; parasite entry, spread and exit routes. The host is defined in the classical and ecological sense and characterized as "high" and "low" risk, and the parasitic risk is defined in terms of space and time. Parasitological and clinical periods of parasite development will be considered in relation to diagnosis and the design of integrated control methods. A specific study of Arthropoda, Pentastomida, Protozoa, Platyhelminthes, Nematoda and Acanthocephala parasites of domestic, wild and aquatic animals and humans will be carried out, including methods of collection, preservation, sample preparation and detection of parasitic forms in animal blood, organs, faeces, hair and skin samples.

Bibliography:

Books:

- Bowman, D.D. (2021) - Georgi's Parasitology for Veterinarians. 11th Ed. Saunders, Philadelphia, 528 pp.
- Zajac, A.M., Conboy, G.A., Little, S.E., Reichard, M.V. (2021). Veterinary Clinical Parasitology 9th Edition. Wiley Blackwell

Teaching materials and sites produced by the parasitology teaching staff:

- Guide to Veterinary Parasitology (Aracnoentomology and Protozoology) FMV/ULisboa. <http://atlasparasitologia.fmv.ulisboa.pt/> PDF articles of interest to the subject being studied, available on the intranet (Moodle)
- Madeira de Carvalho, L.M. (2024) FAQ's de Parasitologia II. As primeiras 125 dúvidas. 2ª edição, 67 pp.



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- Parasitology Practical Manual and Power Point files on the whole subject of Parasitology practical classes, available on the intranet <http://moodle.fmv.ulisboa.pt>
- PowerPoint presentations available on the intranet (Moodle <http://moodle.fmv.ulisboa.pt> Parasitology), concerning all the theoretical and practical learning materials.

Assessment:

The assessment of the theoretical component will be carried out through a written exam with quick answer questions (short answers, multiple choice, true/false and text with spaces to fill in). The practical component will be assessed through individual attendance records and in an oral exam based on parasitological identification and interpretation of techniques. The minimum passing grade is 9.5 (nine and a half) points (10/20), both in the theoretical and practical exam.

The minimum pass mark is 9.5 (nine and a half) points in both the theoretical and practical examinations, with the final grade (FG) being the average of the theoretical (T) and practical (P) components:

$$FG = (0.5T + 0.5P) / 2$$

Students will also have the opportunity to reduce part of the theoretical and practical material for the final examination by taking a mid-term examination (mt) on the Theoretical (T) and Practical (P) components of Arthropods and Plathelminths (50%).

In this case, the final grade will be obtained using the formula: $FG = [(0.5mtT + 0.5T) + (0.5mtP + 0.5P)] / 2$