UNIVERSIDADE DE LISBOA

Faculdade de Medicina Veterinária

Epidemiology, Infectiology, and Preventive Medicine

Curricular Year: 4th **Duration**: Annual **Credits**: 15 ECTS

Teachers: Fernando Boinas (CCP e R); Alexandre Leitão, Fernando Afonso, Isabel Fonseca, José Meireles, Luís Madeira de Carvalho, Manuel Joaquim, Solange Gil, Telmo Nunes, Tiago Grosso, Virgílio Almeida.

Contact Hours: 172H Total.
96H Lectures; 76H Practical and laboratory teaching.

Learning objectives:
The general objectives of EpInfMedPrev are to promote the dissemination of information and knowledge to society through the development of skills by students in the scope of Epidemiology, Risk Analysis, Preventive Medicine, "One Health" and Infectiology of the most relevant infectious and parasitic diseases in Portugal and the European Union, in companion animals and livestock species.
The specific objectives are to enable students to recognize clinical signs and lesions of these diseases, make presumptive and differential diagnosis based on individual and population assessments, collect and send biological samples for laboratory diagnosis and interpret test results, make prognosis, apply biosecurity measures, medical prophylaxis, therapy and risk analysis, aiming at the control, eradication, prevention and surveillance of diseases.

Program contents:
The syllabus is taught 3 theoretical classes per week (1h each); 1 practical laboratory class per week (2h each) comprising laboratory sessions, necropsies, observation of organ lesions, case studies, problem-based learning, computer-based learning, and clinical training sessions.
The theoretical and practical laboratory teaching is distributed in the following modules: Epidemiology and Preventive Medicine, Infectious and Parasitic Diseases affecting various animal species, Infectious and Parasitic Diseases of Carnivores, Ruminants, Horses, Swine, Poultry, Rabbits, Fish, and Bees.
Each student will also complete two extramural 4-hour clinical training sessions on ruminant farms, and two 2-hour clinical training sessions on companion animals at the Isolation and Biological Containment Unit (UICB) of the Companion Animals Teaching Hospital.

Bibliography:

- Detailed summaries and PDFs of teacher's presentations, provided to students in Moodle.
- Diseases of Poultry (2019) 14th Ed. Swaine D.E. et al. (Eds.). Wiley-Blackwell
- Diseases of Swine (2019) 11th Ed. Zimmemman J.J. et al. (Eds). Wiley-Blackwell
- Georgi's Parasitology for Veterinarians (2019). 11th ed. Bowman, D.D. (Ed) Saunders
- Greene's Infectious Diseases of the Dog and Cat (2023). 5th Ed. Sykes, J.E. (Ed). Sounders
- The Merck Veterinary Manual (2016). 11a Ed. S.E. Aiello and M.A. Moses (Eds.). Wiley
- Veterinary Epidemiology (2018), 4th Ed.Thrusfield, M., Wiley-Blackwell

- Veterinary Medicine: A textbook of the Diseases of Cattle, Horses, Sheep, Pigs and Goats (2016). 11th Edition. Constable, P.D. et al. (Eds). Saunders Elsevier
- Veterinary Parasitology (2015), 4 th Ed. Taylor, M. A.et al. (Eds) Wiley Blackwell

Assessment:
The evaluation of the theoretical component will be conducted through written exams with 20 multiple-choice questions (valued at 0.5 points/question) and 10 open questions requiring up to 10 lines of response (valued at 1.0 points/question). This type of examination paper will be used both in the midterm (to be held in the 2-week period following week nº 16) and in the final exams of the regular, resit, and special exam seasons.
According to the current regulations of the Pedagogical Council, the precondition for admission to the final exam is that students must have a minimum attendance rate of 4/5 to the practical classes.
The practical component will be assessed continuously throughout the practical classes using polling software for educational purposes such as "PointSolutions" (https://turningtechnologies. com), "Mentimeter" (https://www.mentimeter.com), "Slido" (https://www.sli.do/featureslive-polling), or "Polleverywhere" (https://www.polleverywhere.com) to assess the topics covered in laboratory and epidemiology classes. Continuous assessment has the advantage of keeping students focused on study, the software speeds up the correction of the exam questions, allowing group's progression to be regularly assessed, identifying students that need to invest more study time, and assessing the effectiveness of assessment methodologies. Clinical training will be evaluated through 3-page reports produced by each group of students, detailing the casuistry performed as well as their critical evaluation.

The final grade will be calculated using the formula: CF = 0.7 T + 0.25 P + 0.05 Group Reports.