



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Anatomical Pathology II

Curricular Year: 3rd

Duration: 1st Semester

Credits: 6 ECTS

Teachers: Jorge Correia (CCP and R); Hugo Pisarra; Rute Noiva.

Contact Hours: 78H Total.

39H Lectures; 39H Practical and laboratory teaching.

Learning objectives:

- a) Cognitive skills: define the types of responses to aggression from each organ and system. Identify and describe the most common injuries, establishing the cause-effect relationship and the degree of dysfunction imply.
- b) Technical skills: write a past medical history. Perform the necropsy technique in different animal species. Collect, pack, and send biological samples for complementary exams. Write a report using scientific language and, if possible, conclude about the causes of death. Perform cytological examination and skin biopsy.

Program contents:

Theoretical Program

Pathology of the urinary tract: kidney and urinary tract. Female genital system: ovaries, tubes, uterus, vagina, and vulva. Mammary gland. Male genital tract: scrotum, testicles, spermatic cord, seminal vesicles, prostate, penis, and foreskin. Respiratory system: upper airways, lungs, and pleura. Skin and appendages. Nervous system. Eye, and ear. Endocrine glands. Complementary cytology exams, skin biopsy with biotome, histopathology, immunohistochemistry, and flow cytometry. Necropsies of zoo and wild animals. Forensic necropsies.

Practical Program

Animal necropsy technique. Histopathological observation of samples from necropsied animals. Observation of preserved parts corresponding to the pathology of various organs, tracts and systems discussed in the theoretical program. Performing cytological examination and skin biopsy.

Bibliography:

Peleteiro, M.C., Marcos, R., Santos, M., Correia, J., Pisarra, H. e Carvalho, T. (2011). Atlas de Citologia Veterinária. Lidel – edições técnicas, lda. ISBN: 978-972-757-728-6.

Peleteiro, M.C., Silva, J.F., Dias-Pereira, P., Carvalho, T., Faustino, A., Correia, J.J., Pisarra, H. & Stilwell, G. (2016). Manual de Necrópsia Veterinária. Lidel - edições técnicas, Lda. ISBN: 978-989-752-196-6.

Peleteiro, M.C., Silva, J.F., Correia, J.J. & Durão, J.F. (2024) Apontamentos de Anatomia Patológica. FMV.

Peleteiro, M.C., Correia, J., Delgado, E., Pinho, M., Pisarra, H., Carvalho, T., Lourenço, M., Gericota, B., Noiva, R., Orvalho, J. & Quintino, L.. Atlas de Anatomia Patológica Veterinária (<http://www.fmv.ulisboa.pt/atlas/atlas.htm>).



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Zachary, J. (2021). Pathologic Basis of Veterinary Disease. Mosby, U.S.A., ISBN: 9780323075336. Website de consulta obrigatória: <https://secure.vet.cornell.edu/nst/nst.asp>. Author Prof. John King, School of Veterinary Medicine, University of Cornell, U.S.A.

Assessment:

The assessment of the theoretical component is accomplished through a written exam with short answer questions, multiple-choice questions (MCQ), true and false, and 15% of essays.

The practical component is evaluated by continuous assessment during practical classes, including individual execution registration (attendance sheet), and group reports of the necropsies performed, and by one final practical exam where students drawn from a set of tasks previously accomplished in practical classes one task to perform.

The final classification is obtained using the formula: $CF = 0,5 T + 0,2 P + 0,3$ (Group work).

The student evaluation is also important to assess the efficiency of the teaching-learning methodologies, in compliance with the curricular unit objectives, and to allow future adequate adjustments on the teaching methodologies and/or on the assessment of student's knowledge and skills.