

ANATOMICAL PATHOLOGY I

Study Programme: MIMV Curricular Year: 2nd Semester: 4th Compulsory Credits: 5 ECTS

Lecturer(s): Jorge de Jesus Correia (CCP e R), Hugo Martins Pissarra e Rute Garcia Noiva

1. Contact hours:

Lectures - 28 hours; Practicals - 42 hours; Total – 70 hours

2. Objectives:

A) Cognitive capabilities: to define the response to injury of different tissues and organs. Describe the macroscopic lesions observed using the appropriate scientific language, establishing the relation cause-effect and the degree of dysfunction.

B) Technical capabilities: to perform a necropsy of various domestic animals, to provide an accurate and complete report and collect material for complementary exams. To perform a Fine Needle Aspiration Biopsy (FNAB) and a punch biopsy.

3. Programme:

Theoretical - Terminology in pathological descriptions. Pathology of the following organs and systems: digestive system, including oral cavity and teeth; oesophagus and birds crop, ruminants forestomachs, stomach; intestine. Liver and biliary system. Exocrine pancreas. Peritoneum and retroperitoneum. Cardiovascular system: heart, pericardium, myocardium, endocardium; arteries, veins and lymphatic vessels. Lymphoid system: thymus, spleen, lymph nodes and bursa of Fabricius. Nervous system.

Practical – Post-mortem changes. Collection and expedition of material for laboratory analysis. Necropsy technique in domestic mammals and birds. Collection of material for cytological exam. Skin biopsy with scalpel and punch. Observation of preserved pathological specimen, representative of lesions of various organs and systems of the theoretical programme.

4. Bibliography:

Peleteiro, M.C., Silva, J.F., Correia, J.J. & Costa Durão, J.F. (edition updated every year).

Apontamentos de Anatomia Patológica. FMV-ULisboa.

Zachary, J. (2021). *Pathologic Basis of Veterinary Disease*. (7th edition), U.S.A., Mosby. ISBN: 978-0-323-07533-6.

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

Peleteiro, M.C., Marcos, R., Santos, M., Correia, J.J., Pissarra, H. & Carvalho, T. (2011). *Atlas de Citologia Veterinária*. Lidel - edições técnicas, Lda. ISBN: 978-972-757-728-6.

Websites of compulsory access:

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

Dr. John M. King's Necropsy Show & Tell, Cornell Veterinary Medicine, U.S.A. (*online*) (<https://secure.vet.cornell.edu/nst/nst.asp>).

5. Assessment:

Practical: mean value of the necropsy reports (60%) and the practical exam (40%). The theoretical: multiple choice questions and one open-ended question. Final classification: FC = 0,5 T + 0,5 P.