



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Pathophysiology

Curricular Year: 2nd

Duration: 1st Semester

Credits: 7 ECTS

Teachers: José Henrique Duarte Correia (CCP e R); Anabela Moreira; António Ferreira; Constança Pomba; Fernando Ferreira; George Stilwell; Gonçalo Pereira; Gonçalo Vicente; Hugo Pissarra; Ilda Rosa; Luís Lamas; Manuela Oliveira; Ricardo Bexiga; Rodolfo Leal; Rui Máximo; Solange Gil Neves; Teresa Villa de Brito; Virgílio Almeida.

Contact Hours: 70H Total.

42H Lectures; 28H Practical and laboratory teaching.

Learning objectives:

The study of pathophysiology is the logical basis for the study of clinical veterinary medicine, a pre-requisite for pharmacotherapy and, where appropriate, for surgical intervention. The student will know (1) the general pathophysiology of the cell, (2) the pathophysiology of metabolites, the pathophysiology of circulation and the defense mechanisms, (5) the pathophysiology of cell multiplication and differentiation and oncogenesis, (6) the pathophysiological mechanisms of organic responses and signs in pathological conditions. The student should build a framework of reasoning about the nature of disease, critically evaluating the interactions of the factors contributing to the disfunctions observed. The student will also understand and relate the pathophysiological mechanisms with the physical and laboratory signs found, interpreting them in the context of the whole body.

Program contents:

Physiology and pathophysiology of the internal environment (Disturbances of intracellular electrolytes, disturbances of body sodium, renal and enteric sodium regulation, Shock, Acid-base disturbances, Renal failure, Edema, Hypertension and diuretics); Pathophysiology of cell regulation, cell death and cancer; Host-pathogen interactions; Pathophysiology the GI tract; Pathophysiology of the respiratory tract; Pathophysiology of cardiovascular disease; Pathophysiology of the CNS; Welfare, Stress, Behavior and pathophysiology; Pathophysiology of the liver; Pathophysiology of Endocrine Homeostasis: examples; Pathophysiology of homeostatic and toxic disorders.

Bibliography:

Dunlop, R.H. & Malbert, C.H. (2004) Veterinary Pathophysiology. 1st Edition, Blackwell Publishing, U.S.A., ISBN 0-8138-2826-0

McGavin, M. D. & Zachary, J. (2012). Pathologic Basis of Veterinary Disease. 5th Edition, Mosby, U.S.A., ISBN: 9780323075336.

Scientific articles selected by the Faculty.

Assessment:

The assessment of the theoretical component will be accomplished through a written examination including multiple-choice questions (MCQ) and true and false questions.



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The practical component will be evaluated:

- a) In a continuous assessment during practical classes, including individual registration (attendance sheet);
- b) In practical examinations where students perform a practical test drawn from a set of tests previously known and accomplished in practical classes.

The final classification is obtained using the formula: $CF = 0.6 T + 0.4P$.

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