

GENERAL PATHOLOGY

Study Program: MIMV **Curricular Year:** 2nd **Semester:** 3rd **Compulsory** **Credits:** 5 ECTS

Lecturer(s): Fernando Afonso (CCP, R), Hugo Pissarra

1. Contact hours:

Lectures – 28h Practicals – 28h Total – 56h

2. Objectives:

To describe, quantify and classify general and basic lesions at the cell, tissue and organ levels. To relate both macroscopic and microscopic changes with the etiologic agents. To understand and to interpret the dynamic evolution of the lesions. To explain the complexity and the modulation processes of the adaptation process and reactive pathogenic mechanisms of tissues. To value the anatomopathologic diagnosis as an important tool for general diagnosis, providing the knowledge about the organic response capability, etiologic agent pathogenicity and lesion mechanisms. To collect, preserve and send biological material for laboratory exam, as well as the necessary information regarding the samples.

3. Programme:

1. Cellular pathology: cell injury and cell death. Cell adaptation.
2. Metabolic disorders: disorders of lipid metabolism; disorders of protein metabolism; disorders of carbohydrate metabolism; disorders of calcium metabolism; disorders of pigment metabolism.
3. Hemodynamic disorders, thrombosis, embolism, infarction and shock.
4. Tissue responses to damage. Inflammatory reaction.
6. Neoplasia

4. Bibliography:

Gil, J.I. (2000). *Manual de Inspeção Sanitária de Carnes*. II Volume. 2^a Edição. Fundação Calouste Gulbenkian, Lisboa.

Kumar, V., Fausto, N., Abbas, A.K., Robbins & Cotran (2004). *Pathologic Basis of Disease*. 7th Edition, W.B. Saunders Company.

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

Pires, M. A., Travassos, F. S. & Gärtner, F. (2004). *Atlas de Patologia Veterinária*. Lidel, Lisboa.

4. Assessment:

The students' knowledge is evaluated at the end of the term with a written examination including theoretical and practical subjects.