

CLINICAL TOXICOLOGY

Study Programme: MIMV **Curricular Year:** 5th **Semester:** 9th **Optional** **Credits:** 2.5 ECTS

Lecturer(s): Manuela Rodeia (SPC), Anabela Moreira (R), Berta São Braz, George Stilwell, Miguel Saraiva Lima, Paula Tilley, Fernando Afonso, Rodolfo Leal and external invited experts

1. Contact hours:

Lectures – 28 hours; **Total** – 28 hours

2. Objectives:

Acquisition and/or application of knowledge and expertise that enable the diagnosis of poisoning based on history, clinical signs, post mortem findings toxicological and chemical analysis. Recognition of some of the relevant or common xenobiotics implicated in poisoning. Application of protocols for diagnosis and therapy. Development of prevention strategies through the understanding of the epidemiology and toxicological risk associated with xenobiotics

3. Programme:

Context of Veterinary Clinical Toxicology.

Types of poisoning: acute, chronic, accidental and intentional.

General approach to the intoxicated patient; Clinical decision flowchart; Decontamination;

Etiological diagnosis: samples collection, storage and sending.

Therapy: general, symptomatic and palliative and specific. Non pharmacological therapy: peritoneal dialysis.

Xenobiotics of clinical relevance: natural and anthropogenic.

Clinical Toxicology of different species: Companion animals, Equines, Ruminants, Poultry, Fish, Wildlife and Zoo animals.

4. Bibliography:

Gupta, R. (Ed). (2012). *Veterinary Toxicology, basic and clinical principles* (2ª Edição). Academic Press.

Hovda, L.R. (Ed).(2015). *Disorders caused by toxicants in Smith, B.P. (Ed), Large Animal Internal Medicine*, 5ª Edição,. Mosby-Elsevier, Cap.54, pp 1578-1616

Hovda, L.R., Brutlag, A.G., Poppenga, R. & Peterson, K. (Ed). (2016). *Blackwell's Five-Minute Veterinary Consult Clinical Companion: Small Animal Toxicology*. Wiley-Blackwell

Kendall, R.J., Lacher, T.E., Cobb, G.C. & Cox, S.B. (Ed). (2010). *Wildlife Toxicology: Emerging Contaminant and Biodiversity Issues*, CRC Press

Quintas, H., Cordeiro, A. & Aguiar, C. (2014). *Plantas Tóxicas para Ruminantes*, Publicações Ciência e Vida, Lda.

5. Assessment:

Attendance, scale 0-100 – 10% of total mark

Written examination, scale 0-20 (minimum of 9.5 for approval) – 90% of total mark