

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, Fernando Afonso, George Stilwell, Paula Tilley, Rodolfo Leal and external invited lecturers

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 PK. 2019. *Concepts and applications in Veterinary Toxicology – an interactive guide*. Springer.

Hovda LR, editor. 2015. *Disorders caused by toxicants*. In: Smith BP, editor. *Large Animal Internal Medicine*, 5th edition. Mosby-Elsevier; p 1578-1616.

Hovda LR, Brutlag AG, Poppenga RH, Epstein SE, editors. 2024. *Blackwell's Five-Minute Veterinary Consult Clinical Companion: Small Animal Toxicology*. 3th edition. Wiley-Blackwell.

Kendall RJ, Lacher TE, Cobb GC, Cox SB, editors. 2010. *Wildlife Toxicology: Emerging Contaminant and Biodiversity Issues*. CRC Press.

Magro, C. 2017. *Protocolos de actuação em intoxicações de cães e gatos por zootoxinas da fauna venenosa portuguesa* [Master's thesis]. Lisboa: FMV-ULisboa. <http://hdl.handle.net/10400.5/13181>

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

Other resources (papers, online resources and audiovisuals/resources developed by lecturers)

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