



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Medicine of Exotic Pets, Conservation and Bioterium Species

Curricular Year: 4th

Duration: Annual

Credits: 6 ECTS

Teachers: José Henrique Duarte Correia (CCP), Sandra Jesus (R), Ana Reisinho, Anabela Moreira, António Duarte, Berta São Braz, Jorge Correia, Luís Carvalho, Rui Bessa, Virgílio Almeida.

Contact Hours: 96H Total.

64H Lectures; 32H Practical and laboratory teaching.

Learning objectives:

Approach clinical cases of exotic pets, wild and bioterium species in a systematic and global way. Analyse these in the context of housing, management and nutrition of the animal.

Evaluate real clinical cases of exotic pets, wild and bioterium species, understanding the evolution of the pathological processes, including aetiology, pathogenesis, lesions and clinical signs; correctly interpret environmental data, anamnesis, clinical and laboratory analysis, aiming at diagnosis, prognosis and therapeutic decision. Apply the technique of problem-based learning to the study of real clinical cases.

Know the role of the veterinarian in the study, management and control of wildlife diseases from the perspective of Conservation Medicine.

Know and learn to apply the bioethical and legal principles of animal experimentation with the use of bioterium species, concerning their housing, management and welfare.

Program contents:

1. Introduction to the medicine of exotic pets.

Particularities of the anatomy and physiology; their husbandry nutrition.

Hematology, clinical chemistry, endoscopy and imagiology.

Infectious and parasitic diseases

Most prevalent diseases of organs and systems.

Metabolic and nutritional diseases, neoplasia, Ophthalmology and Dermatology.

Pterophagia in birds

Emergency approach, anesthesia and surgery.

2. Importance of Wildlife Medicine. Meaningful Diseases in Vertebrates and their ecosystems, with importance on Public Health, Food Safety, public opinion and emerging.

National, EU and International Regulations (Bern Convention and CITES).

Conservation Medicine - Veterinarian Role in Ecosystem Health and Conservation under the perspective of One Health.

3. Bioterium animal species in the context of animal experimentation.

a) Bioethics and 3Rs.

b) Types of animals, welfare, husbandry and staff.

c) Legislation.

d) Identification; drug administration routes; euthanasia



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Bibliography:

Carpenter, J e Harms, C (2023) - Carpenter's Exotic Animal Formulary, Elsevier

Mederith, A e Johnson Delaney, C - BSAVA Manual of Exotic Pets

Quesenbery, K, Mans, C e Orcutt, C - Ferrets, Rabbits and Rodents Clinical Medicine and Surgery, Elsevier (ISBN: 9780323484350)

Harrison's Avian Medicine - https://avianmedicine.net/publication_cat/avian-medicine/

Bengis, R.G. (Coord.) (2002) Infectious Disease of Wildlife: detection, diagnosis and management. OIE Scientific and Technical Review, Vol. 21 (1) and (2), April and August 2002.

Hudson, P.J., Rizzoli, A., Grenfell, B.T., Heesterbeek, H., Dobson, A.P. (Eds.) (2002) The Ecology of Wildlife Diseases. Oxford University Press, New York, 197 pp.

Principles of Laboratory Animal Science, Revised Edition (2001). Eds. L. F. M. van Zutphen, V. Baumans, A. C. Beynen. Elsevier

Sirois, M. (2022). Laboratory animal and Exotic Pet Medicine. Principles and Procedures. 3rd Edition. Elsevier.

Applicable national and international legislation.

Assessment:

The assessment of the theoretical (T) component will be accomplished through a written examination including short answer / closed ended questions, multiple-choice questions (MCQ), true and false – 60%.

The practical component will be evaluated:

a) In a continuous assessment during practical classes, including:

i. Two (1 7 semester) individual / group reports of clinical cases followed – 2 x 20%.

b) In written practical examination (included in the theoretical examination) in which students solve clinical problems.

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.

The final classification (FC) is obtained using the formula: $FC = 0,6T + 0,4P$