

MEDICINE I

Study Programme: MIMV Curricular Year 4th Semester 7th Compulsory Credits: 4.5 ECTS

Lecturer(s): José Henrique Duarte Correia (CCP), Maria Constança Matias Ferreira Pomba (R), Ana Mafalda G. X. F. Lourenço Martins

1. Contact hours:

Lectures 26 Practicals 48 Total 74

2. Objectives:

Approach clinical cases in the areas of hematology, urology and cardiology in a systematic and global way, in the different animal species (horses, ruminants, swine, dogs and cats). Understand the evolution of the pathological medical 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.

3. Programme:

Theoretical: Hematological disorders: anemia, polycythemia, leukopenia, coagulation, sepsis and principles of Transfusion Medicine. Disorders of the urinary system: urinary tract infection, diseases of the lower feline urinary tract, urolithiasis, acute renal failure, chronic renal failure and glomerulitis. Disorders of the cardiovascular system in the different animal species: congenital cardiopathy, cardiomyopathy and endocardiosis.

Practical: Learning of deductive medical rationale using problem-based learning applied on Hematology, Urinary Tract and Cardiovascular clinical cases.

4. Bibliography:

August, J. R. (2006). *Consultations in Feline Internal Medicine*, 5^a edição, Elsevier Saunders; Birchard, J. J. e Sherding, R. G. (2000). *Saunders Manual of Small Animal Practice*, 2^a edição, W.B. Saunders Company; Boothe, D. M. (2001). *Small Animal Clinical Pharmacology and Therapeutics*, 1^a edição, W.B. Saunders Company; Chandler, E. A., Gaskell, C. J., Gaskell, R. M. (2004). *Feline Medicine and Therapeutics*, 3^a edição, Blackwell scientific Publications; Michael Day, M.; Kohn, B. (2012) *BSAVA Manual of Canine and Feline Haematology and Transfusion Medicine*, 2nd edition; Ettinger S. J., Feldman E. C. (2010). *Textbook of Veterinary Internal Medicine*. 7^a Edição. Saunders Elsevier; Fox, P. R.; Sisson, D.; Moise, N. S. (1999). *Textbook of Canine and Feline Cardiology – Principles and Clinical Practice*, 2^a Edição, W.B. Saunders Company; Gough, A.; Murphy, K. (2015). *Differential Diagnosis in Small Animal Medicine*, Blackwell Publishing; Nelson, R. W. e Couto, C. G. (2003). *Small Animal Internal Medicine*, 3^a edição, Mosby. Inc.; Osborne, C. A. e Finco, D. R. (1995). *Canine and Feline Nephrology and Urology*, 1^a edição, Lippincott Williams & Wilkins.; Reed S. M., Bayly W. M., Sellon D. C. (2010). *Equine Internal Medicine*. 3^a Edição. Saunders Elsevier; Smith, B. P. (2008). *Large Animal Internal Medicine*, Mosby. Inc., 4^a edição; Thompson, M.S. (2014) *Small Animal Medical Differential Diagnosis* 2nd Edition, Elsevier; Tilley, L. P. e Goodwin, J. K. (2001). *Manual of Canine and Feline Cardiology*, 3^a edição, W.B. Saunders Company.

5. Assessment:

It is done by means of a final examination with a theoretical part, worth 70% of the final marking and a practical part, consisting of two clinical cases to be solved by the problem-based approach, worth 30% of the final mark (scale 0 to 20).