

## SURGERY II

**Study Programme: MIMV Curricular Year: 4<sup>st</sup> Semester: 8<sup>st</sup> Compulsory Credits: 4.0 ECTS**

**Lecturer(s):** José Paulo Sales Luis (CCP), Miguel Carreira (R), António Ferreira, Esmeralda Delgado, Sandra Jesus, António Lopes, Luís Lamas, Ana Reisinho

### 1. Contact hours:

**Lectures** – 26 hours, **Practicals** – 16 hours, **Total** – 52 hours

### 2. Objectives:

The semester relates to small exotic and large animal surgery and the Student must recognize the main surgical diseases, their pathophysiological mechanisms and understand the way surgery can be helpful and determine a real solution to the patient. Diagnosis, medical options, surgical prognosis, owner's problems and surgical conditions must be understood by the Student. Surgical techniques, materials and options must be understood. Surgical skills and main surgical procedures like incision, tissues manipulation, hemostasis and sutures are to be got as well as applied anesthesiology and monitoring the patient.

### 3. Programme:

The program of small animal surgery and includes plastic and reconstructive, orthopedics' and traumatology, neurology, and minimal invasive surgery. Main surgery and surgical problems in exotic animals, horses and ruminants are included

### 4. Bibliography:

- Adams. S. B (1974). *Les boiteries du cheval*. Maloine.
- Adams, S.B & Fessler, J.F. (2000). *Atlas of equine surgery*. Saunders.
- Altman, R.B. Clubb, S.L. Dorrestein, G.M. & Quesenberry, K. (Eds) (1997). *Avian Medicine and Surgery*. Philadelphia, W.B. Saunders.
- Auer, J.A. & Stick, J.A. (2006). *Equine surgery*. Saunders.
- Berry, S.L. (2006) – Infectious diseases of the bovine claw. *Proceedings\_14th International Symposium and 6th Conference on Lameness Ruminants, Uruguay, 52-57*.
- Bojrab, J. (1998). *Current techniques in small animal surgery*. Williams & Wilkins.
- Fossum. T. (2002). *Small animal surgery*. Mosby.
- Laber-Haird, K., Michael Swindle, M.M. & Flecknell, P.A. (1996). *Handbook of rodent and rabbit medicine*. Pergamon.
- Mader, D. R. (2006). *Reptile medicine and surgery*. Saunders.
- Serrão, A.P. (1996). *Contribuição para o estudo da patologia podal da vaca leiteira*. Tese de doutoramento, FMV, UTL.
- Serrão, A.P. (2009). *Doenças da extremidade digital dos Bovinos – Parte I*. Medicina Veterinária, AEFMV, Lisboa.
- Shearer, J.K. (2006), *The Transition Period and Lameness Due To Claw Disorders In Dairy Cows*. *Proc of NAVC*, Orlando, Florida 47-48.
- Slatter, D.H. (2003). *Textbook of small animal surgery*. Saunders.
- Tully, T.N., Dorrestein, G.M. & Jones, A.K. (1997). *Avian medicine and surgery*. Saunders.

### 5. Assessment:

The Students Knowledge is evaluated in the end the semester by a written exam (worthing 80% of the final grade) and by practical evaluation including a written article of a surgical case (worthing 20% of the final grade).