

## ANAESTHESIA AND ANALGESIA

**Study Programme: MIMV**   **Curricular Year: 3<sup>rd</sup>**   **Semester: 5<sup>th</sup>**   **Compulsory**   **Credits: 4.0 ECTS**  
**Lecturer(s):** António Ferreira (CCP), José Limão Oliveira (R) and Lisa Mestrinho

### 1. Contact hours:

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

### 2. Objectives:

To provide the students the fundamental knowledge and applied techniques of Anaesthesia

### 3. Programme:

- Local anaesthesia. Mechanisms of action of local anaesthetics, main local anaesthetics, techniques of local anaesthesia (analgesia); techniques of regional anaesthesia (analgesia).
- General anaesthesia: Mechanisms of action of general anaesthetics; general anaesthesia by means of fixed anaesthetics; general anaesthesia by means of inhalation.
- Pre-anaesthetic care: Clinical examination, selection of the anaesthesia technique, preanaesthetic medication, and equipment verification.
- Intra-anaesthetic care: Monitorisation of the patient, control of equipment, muscle relaxation, anaesthetic accidents - reanimation.
- Post-anaesthetic care.
- Anaesthesia in the different animal species.
- Anesthesia in cesarean.
- Euthanasia.

### 4. Bibliography:

- Clarke, K.W.; Trim, C.M. & Hall, L. W. (2013). *Veterinary Anaesthesia*, 11<sup>th</sup> edition, Saunders Elsevier.
- Limão Oliveira, J. (2016). *Apontamentos de anesthesiologia e analgesia*. Texto policopiado (307 pág.), Faculdade de Medicina Veterinária, Universidade de Lisboa.
- Limão Oliveira, J. (2016). *Paragem cárdio-respiratória em pequenos animais*. Texto policopiado (53 pág.), Faculdade de Medicina Veterinária, Universidade de Lisboa.
- Muir, W.W. (2007). *Handbook of Veterinary Anesthesia*. 4<sup>th</sup> edition, St.Louis, Mo., Mosby Elsevier.
- Seymour, C. & Gleed, R. (1999). *Manual of Small Animal Anaesthesia and Analgesia*. British Small Animal Veterinary Association.
- Skarda, R.T., Bednarsky, R.M., Muir, W.W & Hubbell, J.A.E. (1997). *Manual de Anestesia Veterinaria*. 2<sup>nd</sup> edición, Mosby, Madrid.
- Turner, A.S., Mcilwraith, C.W. & Hull, B.L. (1989). *Techniques in large animal surgery*. 2<sup>nd</sup> edition, Lea & Febiger, Philadelphia, London.

### 5. Assessment:

The students' knowledge is evaluated at the end of the term with a written examination including theoretical and practical subjects.