

## EQUINE NEONATOLOGY

**Study programme: MIMV    Curricular Year: 4<sup>th</sup>    Semester: 8<sup>th</sup>    Optional    ECTS: 2.5**

**Lecturers:** Sales Luís (CCP), Paula Tilley (R), Luis Lopes Costa, Constança Pomba, Teresa Villa Brito, Joana Simões

**1. Contact hours:** Lectures - 20h; Practicals - 4h

### 2. Objectives:

To give students theoretical and practical knowledge and some practical clinical skills in equine neonatal medicine.

Students must get skills in equine neonatology in a systematic way through anamnesis, patient history, symptom evaluation and history registration. They must be able to select complementary information and exams in order to perform a definitive diagnosis. Communication skills with clients and medical staff, and correct foal handling are also requested.

### 3. Programme:

The program includes subjects like: evaluation of foetal wellbeing and gestational viability; first appointment of the mare; first appointment of the foal; feeding the foal - practical aspects; anaesthesia of the mare at the end of gestation; sedation and anaesthesia of the foal; transport of the foal; neonatal resuscitation; surgery in the foal; fluid therapy, transfusion and parenteral feeding of the foal - its use in immunological cases (lack of passive transfer of immunity and neonatal isoerythrolysis), diarrhoea and pneumonia; antibiotic therapy in foals; neonatal infection and septic arthritis; antibiotic therapy in clinical cases; clinical haematology and biochemistry in the foal; breaking the young horse; non-infectious orthopaedic diseases in the foal; identification and genotyping; "Early Learning" method; practical clinical exam of foals in a stud farm (APGAR index, Sepsis score).

### 4. Bibliography:

Knottenbelt, D.C., Holdstock, N., Madigan, J.E. (2004) Equine Neonatology - medicine and surgery. Saunders.

Koterba, A.M., Drummond, W.H., Kosch, P.C. (1990) Equine Clinical Neonatology. Lea & Febiger.

Paradis, M.R. (2006) Equine neonatal medicine - a case-based approach. Saunders.

Madigan, J.E. (2019) Manual of Equine Neonatal Medicine. 4<sup>th</sup> ed. Live Oak Publishing.

(<https://www.ivis.org/library/manual-of-equine-neonatal-medicine>)

Wong, D.M. e Wilkins, P.A. (2024) Equine Neonatal Medicine. 1st ed, Wiley Blackwell.

### 5. Bibliography:

The student's knowledge is evaluated in the end by a written exam with memorization questions and/or recognition questions and/or summarization questions.