

EQUINE NEONATOLOGY

Code: 90092 Curricular Year: 4th Semester: 8th Optional Credits: 2.5 ECTS

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

1. Contact hours: Lectures: 20h Praticals: 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. Program:

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:

- Equine Neonatology - medicine and surgery. D.C. Knottenbelt, N.Holdstock, J.E. Madigan. - Saunders 2004.
- Equine Clinical Neonatology. A.M. Koterba, W.H. Drummond, P.C. Kosch. Lea & Febiger 1990.
- Equine neonatal medicine - a case-based approach. M.R. Paradis. Saunders 2006.
- Madigan, J.E. (2019) Manual of Equine Neonatal Medicine. 4th ed. Live Oak Publishing.
(<https://www.ivis.org/library/manual-of-equine-neonatal-medicine>)

4. Assessment

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