

1. Course Details

Course – Equine emergency and critical care

This optional study programme will run throughout both semesters as separate programs.

Study Programme: MIMV

Curricular years that may enrol: 4th and 5th year (5th -10th semesters)

Schedule: Biannual throughout the first and second semester.

Credits – 2,5 ECTS

2. Lecturer:

Coordinator (CCP): Prof. José Paulo Sales Luís

Regent: Prof. Luis Pardon Lamas

Collaborating clinicians: Dr. Mariana Magalhães, Dr. Teresa Rosa, Dr. Gonçalo Silva

3. Objectives:

3.1. General

The student will acquire a thorough knowledge of the clinical approach, management and treatment of equine emergencies. By the end, each student should be able to obtain and interpret a clinical history, a detailed physical examination guided to emergency scenarios. In addition, the student should be able to select the most appropriate diagnostic tests and interpret them in order to construct a therapeutic plan for each case.

The student will be expected to learn and participate in the all clinical steps necessary for the surgical preparation of the patient as well as assist surgeons in emergency abdominal (colic) and orthopedic (septic synovitis and fractures) surgeries. In addition, the student will be expected to acquire knowledge and practical experience in equine anesthesia and intensive care monitoring of hospitalized animals.

3.2. Specific goals

1. Patient admission in an emergency situation
2. Interpretation of clinical pathology tests in emergency cases
3. Develop and put in practice a treatment plan
4. Preparation of the patient for surgery
5. Planning and monitoring anaesthesia of the critically ill patient
6. Intensive care of hospitalised patients.

3.3 Programme

The program is based on a highly practical and involved teaching. Students will have the opportunity to participate in all the tasks performed by the Surgery and Emergency Service of the Equine Hospital (> 100 surgeries / year and ~ 200 patients admitted).

At the end of the course each student should have in-depth knowledge the necessary steps for admission, screening and preparation of the equine patient in emergency situations.

The student must be able to establish a treatment plan and put in to practice as well as monitoring patients and their clinical evolution.

Emphasis will also be given to detailed presentation of the clinical cases during morning and evening clinical rounds where a treatment plan will be made for each day and night.

3.4. Practical teaching

Groups of 7 to 10 students will be formed each week. These students should plan their week so they can stay in the hospital for at least three nights this week to participate in and follow up on the hospital work. Each student must make a minimum of 3 nights and a weekend in the service.

4. Exposure time

Students are expected to be on call and on site for three nights and one weekend. Time dedicated to the course will vary with the number of admitted emergencies during that period but a minimum of 28h of exposure will be necessary to complete the course.

5. Assessment

Knowledge assessment and grading will be done continuous by all clinicians.

5.1. Type of Assessment

Grading will be done continuous by all clinicians based on performance and by a written multiple choice test at the end of the course (0 to 20 scale).

5.2 Assessment methods

Practical continuous assessment: 75% of the final mark

Final MCQ: 25% of the final grade

5.3 Recommended bibliography:

Manual of Equine Surgery and Emergencies, Magalhães, M., Rosa, Martins, D. T, Lamas, L. 2019. *Supplied Via Moodle*

Orsini, J.A. and Divers, T.J., 2012. *Equine Emergencies E-Book: Treatment and Procedures*. Elsevier Health Sciences.

Stick, J.A. and Auer, J.A., 2005. *Equine surgery*. Saunders.

Taylor, P. and Clarke, K.W., 2006. *E-Book Handbook of Equine Anaesthesia*. Elsevier Health Sciences.