

CORE CLINICAL TRAINING (CCT) IN “LARGE ANIMALS”

Objectives:

This CCT represents the practical part of the integrated courses “Equine Internal Medicine, Surgery and Therapy” and “Veterinary Clinical Internal Medicine and Therapy (large animals)”, concerning the bovine clinic. The module aims at ensuring that students will be able to properly manage a clinical case of patients of the equine species and other income species.

Specifically, on completion of this module students will be able to:

- **“Management” skills and competence** (Decision making autonomy; Communication skills; Skills management):
 1. Communicate with the owner of the animal
 2. Interact and communicate with the medical staff
 3. Adequately collect the patient’s medical history
 4. Compile a report and compile a medical record
 5. Draw up a medical prescription
 6. Understand and apply a standard operating procedure
 7. Use technological tools to obtain, process, share and communicate updated scientific and health information
 8. Know the items of the composition of costs for a health service
 9. Know the main administrative and medical-legal aspects and the regulatory references of the veterinary profession (drug, animal protection and health, registry office, exercise of the profession, responsibility, and professional ethics)

- **Practical vocational skills** (applied knowledge and understanding):
 - Common skills for different animal species**
 1. Approach and adequately contain an animal, minimizing risks for the operator and stress for the patient
 2. Manage the aspects related to the first aid of a patient in a state of medical or surgical emergency and carry out an adequate triage
 3. Carry out an adequate and complete general physical examination and a more in-depth physical examination (particular objective examination apparatus or region) where required by the highlighted problems
 4. Analyse the anamnestic data and direct clinical findings and summarize them into a list of differential diagnostic hypotheses.
 5. Set up an adequate diagnostic protocol (laboratory investigations and diagnostic imaging) based on the list of diagnostic-differential hypotheses and analyze the results in order to formulate, if possible, a definitive diagnosis, therapy and prognosis
 6. Administer drugs according to appropriate methods and dosages
 7. Appropriately collect, process, store, transport and send the most common biological samples (blood, faeces, urine, skin scapings) in relation to the required analysis
 8. Recognize when euthanasia is necessary and practice it properly by both a human and a communication with the owner point of view, and under the technical /pharmacological one
 9. Correctly apply the principles of sterilization of surgical equipment and the principles of surgical asepsis
 10. Recognize the surgical tools
 11. Prepare the patient for surgery and set up the surgery theatre
 12. Perform simple surgical procedures (eg. suture points)
 13. Perform surgical dressing and bandages

Specific manual skills – horse and livestock animals:

1. Carry out a rectal examination both in equine and bovine patients
2. Recognize the needs of foot and hoof care and clean them
3. Knowing how to manage the regulatory obligations related to animal health and protection in breeding and in transport, the management of the drug in the company, the zootechnical registry
4. Perform and interpret an x-ray examination on the different skeletal segments of a horse or a livestock, setting the technical protocol and choosing the right projections
5. Perform an abdominal ultrasound in a horse aimed at visualizing the various organs in physiological conditions
6. Perform a cardiac ultrasound, a surface electrocardiogram and interpret an electrocardiograph in the equine species
7. Being able to perform a subcutaneous/intramuscular/intravenous injection in large animals
8. Knowing how to perform an emergency evaluation of an equine patient with colic symptoms
9. Set up an infusion line for large animals