

28433 - Integration: Equidae

Información del Plan Docente

Academic Year	2016/17
Academic center	105 - Facultad de Veterinaria
Degree	451 - Degree in Veterinary Science
ECTS	7.0
Course	4
Period	Annual
Subject Type	Compulsory
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

The learning process designed for this topic is based on lectures, demonstrations and laboratory sessions, problem and case-based learning sessions, on-line multimedia material and autonomous work.

5.2. Learning activities

The activities are detailed in the following section (5.3)

28433 - Integration: Equidae

5.3.Program

LECTURES: 60 hours

MODULE 1 (5 h)

- Topic 1: General overview of management, uses, facilities and official documentation of horses (1)
- Topic 2: Equine nutrition (2)
- Topic 3: Breeding in sport and athletic horses (1)
- Topic 4: Sedation and anesthesia in horses (1)

MODULE 2: GASTROINTESTINAL TRACT (12 h)

- Topic 5: Oral cavity (1)
- Topic 6: Esophagus and stomach (including pathology) (1)
- Topic 7: Parasitic diseases with particular impact in the digestive tract (including pathology) (2)
- Topic 8: Colic syndrome: classification and clinical exploration. Importance of endotoxemia in equine clinic (2)
- Topic 9: Fluid therapy and medical treatments of colic (1)
- Topic 10: Decision making, principles of colic surgery and postoperative complications (1)
- Topic 11: Diseases that cause colic in small intestine, cecum, large and small colon (including pathology) (2)
- Topic 12: Other clinical processes: rectal lacerations and prolapse, peritonitis and abdominal herniation (1)
- Topic 13: Acute and chronic diarrhea. Inflammatory bowel disease and malabsorption (including pathology) (1)

MODULE 3: LAMENESSES (10 h)

- Topic 14: Hoof care. Principles of normal and therapeutic shoeing (0'5)
- Topic 15: Semiology and diagnosis. Diagnostic regional and intrasynovial blocks (1)
- Topic 16: Laminitis (1'5)

28433 - Integration: Equidae

- Topic 17: Injuries of the hoof (1)
- Topic 18: Bone diseases (1)
- Topic 19: Wound management, orthopedics emergencies and bandages (1)
- Topic 20: Joint diseases. Podothroclear syndrome and caudal hoof pain (2)
- Topic 21: Tendon and ligament injuries (1)
- Topic 22: Muscular diseases and myopathies. Causes of back pain (1)

MODULE 4: RESPIRATORY TRACT (7 h)

- Topic 23: Upper respiratory tract: nasal cavity, sinus, pharynx, larynx, guttural pouches and trachea (2)
- Topic 24: Lower respiratory tract: not-infectcontagious diseases. Pneumonia. Conditions of the pleural cavity and chest wall, pleuropneumonia (including pathology) (2)
- Topic 25: Respiratory infectious and parasitic diseases: strangles, influenza, respiratory herpesvirus, rhodococcus, dictiocaulosis... (including pathology) (3)

MODULE 5: OTHER ORGANIC SYSTEMS AND APPARATUS (13 h)

- Topic 26: Main cardiac arrhythmias and heart murmurs (1)
- Topic 27: Main urinary diseases: bladder stones, acute and chronic renal insufficiency (1)
- Topic 28: Endocrine, metabolic and liver diseases (1)
- Topic 29: Main diseases in equine ophthalmology (1)
- Topic 30: Main non-infectious or parasitic neurological diseases (1)
- Topic 31: Neurological infectious and parasitic diseases (2)
- Topic 32: Systemic infectious and parasitic diseases. Notifiable diseases (3)
- Topic 33: Dermatology: skin neoplasms, processes of allergic origin, processes of parasitic and infectious etiology (2)
- Topic 34: Gross pathology of module 5 (1)

28433 - Integration: Equidae

MODULE 6: REPRODUCTION. STUD FARM DISEASES (8 h)

- Topic 35: Exploration of the Mare (including uterine biopsies and cytology) and estrous cycle control (1)
- Topic 36: Stallion exploration. Semen extraction, evaluation and conservation (1)
- Topic 37: Mare and stallion infertility (1)
- Topic 38: Natural breeding, artificial insemination and embryo transfer (1)
- Topic 39: Infectious and parasitic diseases of reproductive tract and sexual transmission, including infectious abortions (1)
- Topic 40: Management of gestation. Problems during pregnancy and non-infectious abortions (1)
- Topic 41: Partum induction, dystocia, caesarean-section and puerperal problems (1)
- Topic 42: Stallion and mare urogenital surgery (sudden procedures) (1)

MODULE 7: NEONATOLOGY AND COLTS (5 h)

- Topic 43: Birth: fetal viability, neonatal resuscitation, adaptation of extra-uterine life. The sound foals. Sick newborn warning signs. Hypoxic-ischemic neonatal encephalopathy (1)
- Topic 44: Failure transfer of passive immunity. Neonatal sepsis. Neonatal isoerythrolysis. (1)
- Topic 45: Other common diseases of the newborn and the colts: umbilical and scrotal hernias, umbilical stump and bladder disorders, septic arthritis/polyarthritis (1)
- Topic 46: Developmental Orthopedic Diseases, (1)
- Topic 47: Gross pathology of modules 6 and 7(1)

PRACTICAL SESSIONS: 27,5 face-to-face workshop hours

DURING FIRST FOUR-MONTH PERIOD

- Session 1: Preparation of rations (2 hours) (12 groups) Computer room

28433 - Integration: Equidae

- Session 2: Qualitative and quantitative coprology of parasitic processes. Stool culture. Parasitological post-mortem diagnostic (2 hours) (12 groups) Laboratory of Parasitology.
- Session 3: Lameness examination: inspection and static exam with lame horses (1.5 hours) (24 groups) HVUZ.
- Session 4: Lameness examination: dynamic exam with lame horses and/or and/or Computerized Lameness Simulator (1.5 hours). (24 groups) HVUZ and/or Computer room.
- Session 5 Peri-neural anesthesia and arthrocentesis of the distal limb of the horse, dissection of the distal limb (3 hours) (24 groups) Wet lab with postmortem specimens in Surgical lab.
- Session 6: Case-based learning session: "¡SOS: my horse is in colic!" (2 hours) (12 groups)
- Session 7: Case-based learning session: "¡My horse show respiratory noises...!" ¡My horse coughing with/without nasal discharge...!" (2 hours) (12 groups)

DURING SECOND FOUR-MONTH PERIOD

- Sessions 8 and 9: Genital exploration of the mare. Evaluation and preparation of seminal doses (3.5 hours) (24 groups). Teaching farm-ship with mares and Biotechnology lab
- Session 10: Case-based learning session: "¡Infertile mare...!. Danger: abortions!..." (2 hours) (12 groups)
- Session 11: Case-based learning session: "¡My newborn foal is ill...!" (2 hours) (12 groups)
- Session 12: Problem-based learning session: "I just bought a horse..." (2 hours) (12 groups)

DURING THE TWO FOUR-MONTH PERIOD:

- Session 13: Necropsy technique in horses: visualization of the equine digestive tract and other internal organs (2 hours) (6 groups) Necropsy room.
- Session 14: Advanced clinical examination - Pre-purchase examination (2 hours). (24 groups) Teaching farm-ship with horses

MULTIMEDIA FILES SELF-STUDY: 11 hours of autonomous work

Students must watch (individually or in a group) the following multimedia files. These activities must be carried out before the respective theoretical lectures.

28433 - Integration: Equidae

- Video: The horse digestive system, Horse digestion guide Equine Nutrition Feedstuffs y The horse body condition (1 hour) (before Topic 2)
- CD Equine Dental (before Topic 5) (1 hour)
- CD Passing nasogastric tube in the horse (before Topic 6) (1 hour)
- DVD Equine Colic (before Topic 8) (2 hours)
- CD Equad: upper respiratory tract (before Topic 23) (1'5 hours)
- CD Cardiac sounds (before Topic 26) (1 hour)
- CD Reproductive ultrasound in mares (before Topic 35) (0'5 hours)
- CD Foal in Mare (before Topic 41) (1 hour)
- CD Fetal and maternal dystocia in the mare (before Topic 41) (1 hour)
- Video: Urogenital surgeries in the horse (before Topic 42) (1 hour)

5.4.Planning and scheduling

5.5.Bibliography and recommended resources

<http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>