Guide for Equine Clinical Practice  
11th semester

The practical time is elected by the students: 4 weeks (5 credits) or 8 weeks (11 credits)

Equine internal medicine clinical practice

Curriculum: Active participation: 1. during clinical examination of the patients; 2. in the evaluations of clinical and laboratory findings; 3. in the therapies. 4. during communication with the owner

Internal medicine protocols:

1. **Examinations + Therapy: Abdomen:**
   - Examination and monitoring of the colic horse, rectal examination, nasogastric intubation, abdominal ultrasonography, paracentesis, gastroscopy, absorption test
   - gastric ulceration, acute and chronic enteritis, impactions, displacement of the large colon, parasitosis
   - liver, kidney, spleen, ultrasonographic examination, urinary tract endoscopy, catheter

2. **Examination + Therapy: Respiratory System:**
   - physical examination, X-ray, endoscopy, TLI, BAL, arterial blood sample
   - Upper airway disorders (LLHP, DDSP..), guttural pouch disorders (mycosis, tympary, empyema..) and lower airway disorders (RAO, pleuropneumonia, bronchopneumonia..)

3. **Examination + Therapy: Cardiovascular System:**
   - physical examination, understanding of EKG, echocardiography
     Different cardiopathies, MYI, AOI, SVD..)
   - DIC, thrombophlebitis

4. **Examination +Therapy: Neurological System:**
   - physical examination, AO or LS punction, X-ray of the head- and neck, myelography
   - Evaluation of clinical findings + therapy: CVM, WNV, EHV

5. **Examination +Thery: Dermatology:**
   - physical examination, sample taking methods
   - sarcoid, papilloma, melanoma, different dermatitis disorders

6. **Examination and Therapy: Exercise Intolerance.** (including treadmill and/or DRS-overground endoscopic examinations)

7. **Evaluation of different Laboratory results** including haematology, cytology, biochemistry, blood gas..
8. **Examination of the mare and stallion genital tract, most frequent problem list**

**Equine Surgery**

**Anaesthesiology:**
- pre-anest- monitoring, insertion and fixation of iv. catheter, inhalation narcosis, anaesthesiology techniques (iv. and inhalation)
- the ASA anaesthesiology protocols (premedication, induction, maintenance)
- emergency anaesthesiology cases
- peri-operative monitoring
- peri-operative analgesia, pain control

**Radiology:**
- Appropriate knowledge in Radiation Safety
- Knowledge how to perform and interpret X-rays
  - of the navicular region, the distal limb, fetlock, stifle, carpus

**Lameness diagnostic**
- Participating in lameness examinations
  - knowledge of a standard protocol
  - performing flexion tests
  - assisting in diagnostic analgesia
  - knowledge of perineural anesthetic techniques (preparation of the site, how to puncture..)
  - knowledge of intraarticular blocks
  - basic knowledge of further anaxillary diagnostic aids (MRI, scintigraphy..)

**Wound management:**
- General examination of the emergency patient with injury
- Special considerations with different wounds (intrasynovial, fx suspect,..)
- Different possibilities how to control haemorrhage
- Wound toilette, wound dressings
- How to manage exuberant granulation tissue
- Different bandages (pressure bandage, supporting bandage,..)
- How to bandage the carpus and tarsus,
- Robert Jones bandage, foot cast, slipper cast, half limb cast, full limb cast

**Knowledge of surgical instruments and Suture Material**
- Different types of Scalpel, Scissor and Forceps
- Suture techniques (different continuous and interrupted suturing techniques

**Participating - assisting in different equine surgeries:**
- Umbilical hernia
- Colic surgery
- Castration, cryptorchidectomy
- Upper respiratory tract surgery (laryngoplasty, ventriculectomy, laser surgery)
- Arthroscopy / Laparoscopy
- Fracture fixation
The students must be capable to carry out the following hands-on exercises:
1. Colic patient: monitoring, intravenous inj., insertion of iv. catheter
2. Lameness cases: lameness examination including provocation tests, diagnostic analgesia
3. Surgical manipulation: assisting during castration, colic surgery and arthroscopies
4. Medication techniques, bandaging

**General Information**
In the practical places the student must actively participate in daily work. She/he should collect practical as well as theoretic knowledge. Working hours must be at least 40 hours a week. The schedule is determined by the local supervisor of the practical.

The exam of the 11th semester:
Place of this exam: Equine Department and Clinic, Üllő Dóra major. Questions will be asked from practical topics (see above). The exam is carried out with 2 examiners (one equine surgeon and one college for internal medicine). The exam can involve examination of a patient in the clinic with differential diagnosis, treatment and prognosis of the patient. All the students are getting marks at the end of the exam.