

## **Large animal surgery clinical practice**

### Anaesthesiology:

- Preoperative patient evaluation, preparation of the patient for intravenous or
  - Inhalational anaesthesia
- Different general anaesthesia techniques. Intravenous and inhalational anaesthesia
- ASA system classification (premedication, induction, maintenance)
- Anaesthetic complications, emergencies and prevention of them
- Perioperative monitoring of the anaesthetised horse
- Perioperative analgesia

### Radiology:

- Radiation protection
- General radiology knowledge
  - Standard projections, mainly different regions of the limbs
  - Expositional values
  - Image development
- Usage of contrast techniques
- Interpretation of radiological findings

### General surgery:

- Surgical patient protocols
  - General examination of the patient
  - Examination of the abdomen
- Emergency diagnostics
- Emergency therapy
- Diagnostics and treatment of covered injuries
- Diagnostics and treatment of open injuries
- Bandages, lower limb and high bandages application, Robert-Jones bandage, casts,
  - Splints

### General surgical interventions:

- Knowledge of surgical instruments
- Surgical wound or incision techniques
- Methods of surgical hemostasis
- Suture materials and patterns
- Techniques of primary wound repair

### Soft tissue surgery:

- Basic oncological surgical interventions
  - Biopsy
  - Tumour excision
- Surgery of hernias
  - Umbilical hernia (foal, pig)
  - Inguinal hernia (primary in the pig)
- Basic abdominal surgeries
  - Basic knowledge of celiotomy, assistance at colic surgery

Orthopaedics:

- Physical examination in lameness diagnostics
- Supplementary examinations in lameness diagnostics
- Diagnostic analgesia in lameness examination
- Basic techniques in bone surgery
- Basic techniques in joint surgery

Manual interventions done by the student alone:

1. Colic patient: intravenous injection, intravenous catheter introduction
2. Orthopaedic examinations: basics of lameness diagnostics, provocation tests, diagnostic analgesia
3. Surgical interventions: assistance at castration, colic surgery, arthroscopy, closure of acquired wounds
4. Drug administrations, bandaging (see above)

**Table of recorded cases**

15 cases in the four-week term, 30 cases in the ten-week term according to this table

	<b>Type and minimal number of the case</b>	<b>Date</b>	<b>Signature</b>
1	Castration in case of normal anatomical situation: <b>2</b> (e.g. open, closed, standing, recumbent)		
2	Cryptorchid castration: <b>1</b>		
3	Wound closure and/or management: <b>3</b>		
4	Lameness examination: <b>6</b> (with provocation tests, diagnostic analgesia and imaging)		
5	Dental procedures: <b>1</b> (e.g. examination of the oral cavity and teeth – tooth rasping, tooth extraction etc.)		
6	Other surgical case: <b>2</b> (e.g. colic, osteosynthesis, tendon injury, tumour removal, dental procedure, etc.)		