



Student handout - Surgery and Ophthalmology 2019

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Professor and Head of Surgery

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History of the department

Department of Veterinary Medicine was funded in 1786 as part of the University of Pest established by *King Josef II*, which institution already dealt actively with the education of surgery. Students for human medicine of the University compulsorily studied surgical aetiology and operative surgery accompanied by subject of veterinary medicine performed by *S. Tolnay* on the basis of surgical textbook edited by Prof. Wolstein from Vienna (1785). At that time veterinary surgery remained at „second level” behind the human medicine. Remarkable progress in the education of veterinary surgery was achieved under *V. Zlamal* (1803-1886) recognising the importance of surgery as an independent subject completing it with other related disciplines. The first teacher of surgery was *F. Varga*, a medical doctor, who was an assistant of Prof. Balassa, the founder of Hungarian operative surgery. In 1870 the „Special Surgical and Operative Department” was established and moved into present-day buildings in Rottenbiller Street. *B. Plósz*, at the time of his heading, completely reconstructed and reorganised the department, introduced conditions of surgical asepsis and operative surgery. He was outstanding in orthopaedics and abdominal surgery of the horse. Following head of the department, *M. Berrár* (1884-1929) was an internationally accepted expert of veterinary surgery and ophthalmology. Radiological unit was established by *E.Gy. Guoth* after 1929. *Gy. Kómár*, then *A.B. Kovács* took part in the foundation of hoof and abdominal surgery of the horse and cattle. *L. Tamás* headed the department between 1981 and 1989 contributing to the progress of equine surgery followed by *J. Tóth*, who renewed the department developing the institution onto a reasonable European level both in large and small animal surgery with regard to both instrumentation and special work. After years under supervision by *Prof. Tamás* and *Dr. Felkai* as curators, *Prof. Tibor Németh* has been the Head of Surgery since 2005. Surgery and Ophthalmology currently operates in the framework of the Small Animal Clinic in István Street.



Register of the academic staff

Staff	DEGREE	POSITION	SPECIALITY	E-MAIL
Professor Tibor NÉMETH	DVM PhD Dipl.ECVS CertSACS	Professor Head of Department	Small Animal Soft Tissue Surgery	Nemeth.Tibor@univet.hu
Attila ARANY TÓTH	DVM PhD CertSACS	Assistant Professor (Adjunct)	Small animal Radiology Surgery	aaranytoth@yahoo.com
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Zsolt SZENTGÁLI	DVM CertSACS	Senior Lecturer	Small Animal Ophthalmology	szentgal@freemail.cz.hu
Tamás IPOLYI	DVM CertSACS	Senior Lecturer	Small animal orthopaedics and neurology	ipolyit@freemail.hu
Péter MOLNÁR	DVM CertSACS	Lecturer	Small Animal Radiology	ptmol@hotmail.com
Csilla SIMON	DVM	Clinician	Small Animal Anaesthesiology and Surgery	kissimcsi@freemail.hu
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Balász BAJI	DVM	Clinician	Small animal surgery	baji.balazs@univet.hu
		Large Animal Surgery Section Dept and Clinic of Equine Medicine Üllő		
Professor Gábor BODÓ	DVM PhD Dipl. ECVS Equine specialist	Professor Head of Equine Clinic	Large animal Surgery	Bodo.Gabor@univet.hu
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Simon IZING	DVM Equine specialist	Assistant Professor	Large animal Surgery	Izing.Simon@univet.hu
Zita MAKRA	DVM, PhD Equine specialist	Assistant Professor	Large Animal Ophthalmology Anaesthesiology	Makra.Zita@univet.hu
Pál TUSKA	DVM	Clinician	Large animal Surgery	Tuska.Pal@univet.hu

Credits of Surgery and Ophthalmology

Radiology – Anesthesiology (Surgery 1) :	6 th semester	3 credits
Detailed Surgery (Surgery 2):	7 th semester	2 credits
Detailed Surgery (Surgery 3):.	8 th semester	6 credits
Ophthalmology:	9 th semester	2 credits

Curriculum of Surgery and Ophthalmology

6th semester:

- **Radiology** (Dr. Arany Tóth – Dr. Tóth)
- **Anaesthesiology** (Dr. Dunay – Dr. Makra)

7th semester:

- **General Surgery, Surgical Diagnostics** (Prof. Németh — Prof. Bodó - Dr. Izing – Dr. Tóth – Dr. Molnár)
- **Detailed Soft Tissue Surgery I.** (Prof. Németh – Dr. Molnár – Prof. Bodó - Dr. Tóth – Dr. Izing)

8th semester:

- **Detailed Soft Tissue Surgery II.** (Prof. Németh - Prof. Bodó - Dr. Tóth – Dr. Izing –)
- **General and detailed orthopaedics** (Dr. Ipolyi – Dr. Zólyomi - Prof. Bodó - Dr. Izing – Dr. Tóth)
- **Neurosurgery** (Dr. Ipolyi)

9th semester:

- **Ophthalmology** (Dr. Szentgáli – Dr. Makra)



Short description of subjects

Radiology:

- principles of Radiology
- radiographic diagnostics of different regions – in large and small animals

Anaesthesiology:

- principles of anaesthesiology
- anaesthesiology of premedication
- general anaesthesiology
- local anaesthesiology
- analgesia
- anaesthesia of different species

General Surgery:

- animal handling
- surgical basic and supplementary diagnostics
- classification, forms and treatments of wounds
- shock
- anti-inflammatory agents, antibiotics

Soft Tissue Surgery:

- general operative surgery
- surgery of the head and neck
- surgery of the upper airways and thorax
- surgery of hernias
- abdominal surgery

Orthopaedics and Neurology:

- surgical diseases of the bones and joints
- diseases of tendons, tendon sheaths and bursae
- lameness diagnostics in large and small animals
- limb diseases in the horse
- limb diseases of the cattle and sheep
- principles in bone and joint surgery
- principles of veterinary neurology (diseases of the spine, diagnostics, therapy)

Ophthalmology:

- ophthalmologic basic and supplementary examinations
- anatomy and physiology of the eye
- congenital and acquired ophthalmologic conditions in large and small animals



Elective courses managed by the department

- Diagnostic imaging in small animal practice

(lecturers: Dr. Manczur – Dr. Arany Tóth)

- Specific operative techniques in small animal soft tissue surgery (8th semester)

(lecturer: Prof. Németh)

- Operation techniques: hand-on practice on cadavers (soft tissue surgery)

(lecturers: Dr. Szalay – Prof. Németh)

- Operation techniques: hand-on practice on cadavers (orthopaedics)

(lecturers: Dr. Szalay – Dr. Ipolyi)

Educational and Examination Requirements

Attendance of **lectures and practical trainings** is *compulsory*. The exam questions are based on topics of lectures and practical trainings. The attendance of **lectures** is checked 3 times a semester, the appearance of students at **practical** trainings is checked at every occasion. The prerequisite of obtaining *the approval signature of the semester* is the attendance of all practical trainings and at least 1 verified lecture-appearance per semester! Absence of lecture or practical training is regarded as verified in case of illness certified by physician or in case of official faculty programme (e.g. clinical shift). **White coat** is necessary for practical trainings.

The 6th semester (Surgery 1) is followed by a **written Semi-final examination (MCQ)**, which covers radiology and anaesthesiology. The dates of the written examination are advertised in the NEPTUN system. The 7th semester (Surgery 2) is evaluated by a **practical grade** mostly based on lecture attendance and practical activity.

The **written Surgery Final Examination (MCQ)** is being held at the end of the 8th semester Surgery 1-3). The dates of the written examination are advertised in the NEPTUN.

The **written Semi-final examination of Ophthalmology (MCQ)** is at the end of the 9th semester.



Any further detailed and current information (including lecture notes) are available on the **NEPTUN system** and the **department's website** (www.kisallatsebeszet.hu) and the **information board** at the entrance of the Surgery Lecture Hall. The students are kindly asked to follow the information regularly. Sending letters or making appointment at surgery Secreteriat with Gyöngyi Zakar (secretary) is possible on personal or common purpose (zakar.gyongyi@aotk.szie.hu).

Suggested readings

The material of the examinations is based on the topics of the lectures and practical trainings as extracts of the current surgical and ophthalmological literature (see below)! Lecture notes are provided by lecturers and are available constantly on the website. The suggested readings helping the preparation for examination are the followings:

- Auer, J. A. Stick J: Equine surgery. 4th edition, Elsevier, Philadelphia, 2012.
- Barnett, K. C.: Colour atlas of veterinary ophtalmology. London, Wolfe Medical Publ., 1989.
- Brinker, N. O. - Piermattei, D. L. - Flo, G. L.: Handbook of small animal orthopaedics and fracture treatment. 4th edition, Elsevier Saunders, 2006
- Butler, J. A. (et. al.) : Clinical radiology of the horse. 2nd edition, Blackwell Science, 2000
- Donald, E. Thrall: Textbook of Veterinary Diagnostic Radiology. 6th edition, Elsevier, 2012
- Gelatt, K. N et al.: Veterinary ophtalmology. 5th edition, Wiley and Blackwell, 2013
- Hall, L.W. - Clarke, K. N.: Veterinary anaesthesiology. 9th edition, Wiley and Blackwell, 2008
- McIlwraith, C. W. – Robertson J.T.: McIlwraith and Turner's Equine surgery: advance techniques. Wiley and Blackwell, 1998
- Muir W . W. Hubbel, J. A. E. : Handbook of Veterinary Anesthesia. 5th edition, Elsevier Mosby, 2013
- Permattei, D. L.: An atlas of surgical approaches the bones and joints of the dog and cat. Elsevier, 2013
- Robinson, N. E.: Current therapy in equine medicine 7th edition. Philadelphia, Saunders 2015
- Ross.M., Dyson, S.: Diagnosis and Management of Lameness in the horse. 2nd Ed. 2010.
- Adam's and Stashak's Lameness in Horses. 6th edition, Wiley and Blackwell, 2011
- Stashak, T. S.: Equine wound management. 2nd edition, Wiley and Blackwell, 2011.
- Tobias KM – Johnston SA: Veterinary Surgery: Small Animal, Elsevier, 2012
- Traub-Dargats, J. L - Brown, C. M.: Equine endoscopy. 2nd revised edition, Elsevier 1996