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Tempus project EDUVET  
Study visit at University of Veterinary Science  
Budapest, Hungary

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**Report for Tempus project**  
**EDUVET 544270 - Tempus - 1 - 2013 - 1 - RS - Tempus - JPCR**

Study visit at University of Veterinary Science in Budapest (Állatorvostudományi Egyetem, Budapest) was conducted in the period from 9<sup>th</sup> to 24<sup>th</sup> October 2016, in the framework of Tempus EDUVET project. Primary objective of the trip was exchange of experiences regarding the teaching process in subject Veterinary Radiology, and professional training.



Figure 1. University of Veterinary Science in Budapest

During the visit, I was able to follow the work of the Small Animal Clinic and Department of Radiology.

During the bachelor study, students have the following subjects in the field of the Veterinary Radiology:

1. Radiology - Anesthesiology (Surgery I) (Radiológia - Aneszteziológia (Sebészet I)), listen during the summer semester of the third year (compulsory subject) <http://www.univet.hu/hu/hallgato/kurzusok/allatorvosi-rontgenanatomia> ;
2. Veterinary Radiology - Anatomy (Állatorvosi röntgriánatómia), listen during the winter semester of the second year (elective subject) <http://www.univet.hu/hu/hallgato/kurzusok/radiologia-aneszteziologia> ;
3. Ultrasound - diagnostics in Small Animals (Kutyák és macskák ultrahang-diagnosztikája), listen during the winter semester of the fifth year (elective subject). <http://www.univet.hu/hu/hallgato/kurzusok/kutyak-es-macskak-ultrahang-diagnosztikaja>

For teaching in the field of Veterinary Radiology, in charge are the following departments and clinics:

1. Department and Clinic of Surgery and Ophthalmology (Sebészeti és szemészeti tanszék és klinika);
2. Department of Anatomy and Histology (Anatómiai és szövettani tanszék);
3. Department and Clinic of Internal Medicine (Belgyógyászati tanszék és klinika).

Teaching is conducted in two languages, in Hungarian and English. Lectures take place in a small lecture room using modern audiovisual techniques. The practicals are held in the Small Animal Clinic, in the Veterinary Radiology and Internal Medicine Department. In practical classes in Radiology - Anesthesiology, students are introduced to perform X-ray technique, using contrast media and the fundamentals of protection against X-ray. At the exercises from Ultrasound - diagnostics in Small Animals, students are introduced to the basics of ultrasound imaging of internal organs. Practicals are conducted in small groups (eight to fifteen students).

Small Animals Clinic located within the University in building of the A block. Clinic was designed to simultaneously provide external services to the pet owners.



Figure 2. Small Animal Clinic

Small Animal Clinic is well equipped with a large waiting room, seven examination rooms for dogs and cats, ambulance for exotic animals, specialized cabinets for computed tomography, radiography, operational blocks, stationaries for dogs and cats and intensive care unit.

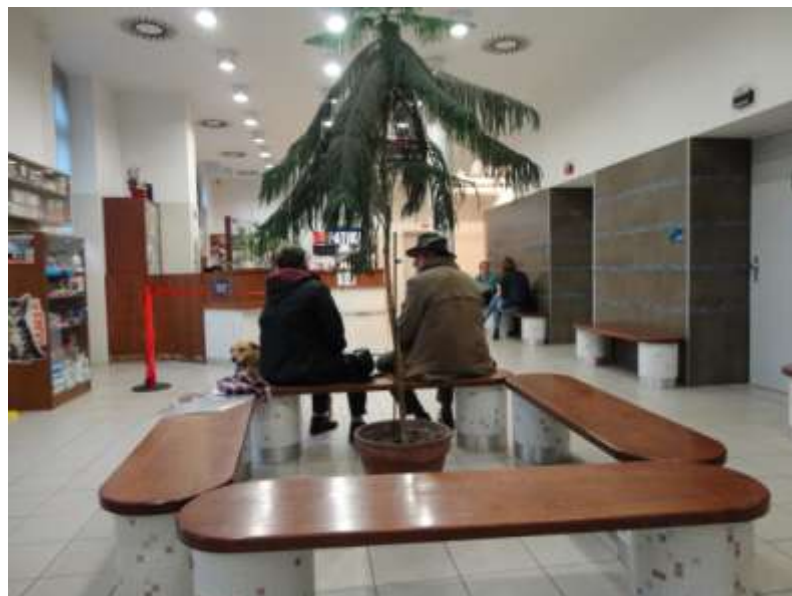


Figure 3. Waiting room

Small animal clinic's staff consists of: doctors/teachers, technicians and assistants. Opening hours of the Clinic is from 8am to 8pm, while emergency service is available 24

hours a day. The Department of Radiology is working from 9am to 3pm. The day begins with visiting round at 8.30am, where teachers and students analyze patients from last day. Chief veterinarian radiologist in the Department of Radiology is Dr. Attila Arany-Tóth, who was responsible for me during my stay at their clinic.

Department of Radiology includes six rooms:

1. X - ray cabinet (45 m<sup>2</sup>, two radiology machines)
2. room with control table
3. cabinet for computed tomography (30 m<sup>2</sup>, one CT machine)
4. room for computer processing and analysis of radiographs (seven computers)
5. archive of radiographs and radiographic findings
6. meeting room



Figure 4. Radiology machine



Figure 5. Radiology shooting

All computers are networked at the clinic, so that when they open the patient record all data are currently available (medical history, clinical and specialist findings, diagnosis, differential diagnosis, therapy).



Figure 6. Control table and computer for processing of radiographs

They have about 250 patients for X - ray and CT scan per month. Recording is done in minimum two projections.



Figure 7. Room for computer processing and analysis of radiographs and CT imaging



Figure 8. CT shooting

During the visit to University of Veterinary Science in Budapest, I gained valuable experience for the improvement teaching work in our Department, as well as in X - ray cabinet. In addition, thanks to this trip, I established important contacts with colleagues from Hungary who are ready for cooperation in the future.

In Novi Sad, 11.11.2016.

dr Annamaria Galfi