Національний університет біоресурсів і природокористування України

Факультет ветеринарної медицини

НДІ Здоров'я тварин

«ЄДИНЕ ЗДОРОВ'Я – 2022»

Матеріали Міжнародної наукової конференції

22-24 вересня 2022 р.
НУБіП України, м. Київ

UDC:636.7/.8.09:616-071

THE USE OF SIMULATORS IN THE ACQUISITION AND IMPROVEMENT OF THE SKILLS OF ENDOSCOPIC EXAMINATION OF DOGS AND CATS

Krzysztof Kubiak,Prof. dr hab. dr h.c. [1],
Jolanta Spużak,dr[1], Marcin Jankowski,dr hab.,prof. uczelni[1],
Kamila Glińska Suchocka,dr. hab., prof. uczelni[1],
Dominika Kubiak-Nowak, dr[2]
Uniwersytet Przyrodniczy we Wrocławiu, Wydział Medycyny Weterynaryjnej:
[1]Katedra Chorób Wewnętrznych z Kliniką Koni, Psów i Kotów, pl. Grunwaldzki 47, 50-366 Wrocław;
[2]Katedra i Klinika Chirurgii, pl. Grunwaldzki 51, 50-366 Wrocław, POLAND

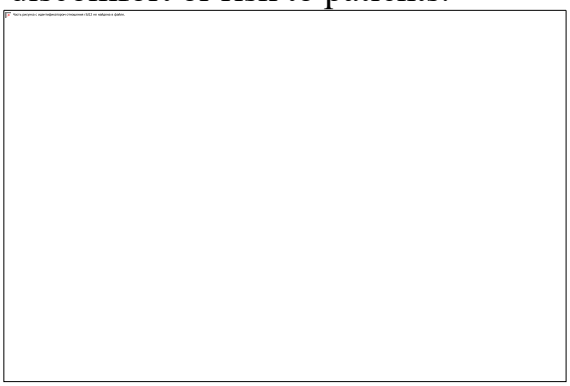
The Endoscopic Simulation Laboratory was established at the Division of Diseases of Dogs and Cats of the Faculty of Veterinary Medicine in Wrocław. It gives students and veterinarians the opportunity to improve their skills in endoscopic examination of dogs and cats.

Acquiring and improving practical skills in the performance of medical procedures is the basis for teaching students in the field of veterinarytudies and plays an important role in the lifelong education of veterinarians. In order to meet these challenges, the Endoscopic Simulation Laboratory has been established at the Department of Veterinary Medicine in Wrocław, as part of the Department of Dogs and Cats Diseases, at the Endoscopic Laboratory. The new laboratory was equipped with simulation platforms from SIMBIONIX, which were provided and launched by SIMEDU: GI Mentor Express, providing practical training in the field of basic gastroenterological skills and endoscopic procedures, and BRONCH Express, enabling the acquisition and development of skills in endoscopy of the trachea and bronchi.

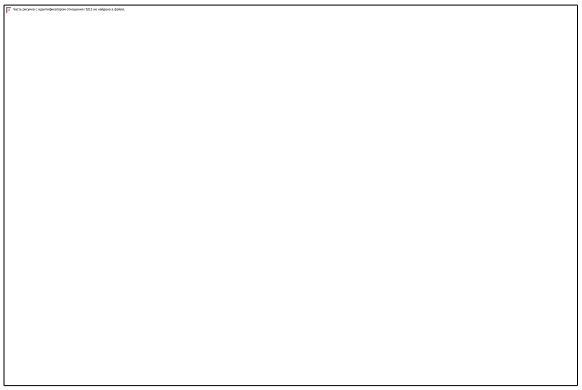
With over 30 years of experience in performing endoscopic examinations, knowledge related to this field and excellent endoscopic equipment, the Wroclaw center made efforts to create an innovative Endoscopic Simulation Laboratory in Poland and abroad. Due to the similarities in the structure of the respiratory system and digestive tract of dogs, cats and humans, the practical classes were based on platforms that have been used in human medicine for many years.

The platforms offer learning the full range of endoscopic skills, such as: organ navigation, developing hand-eye coordination, safe maneuvering the endoscope, and performing a comprehensive and methodical endoscopic examination. The simulators also provide the possibility of practical training in the use of various types of endoscopic manipulators in the light of the examined organs. By choosing, for example, biopsy forceps, the skills in taking sections of the mucosa of the examined organs are improved.

After completing the exercise (simulation), information is available, including: parameters such as: examination time, number of hits with the endoscope against the organ wall, and the time of keeping the endoscopic image in the center of the lumen of the examined organ. The platforms may contain didactic materials (eg descriptions, video instructions, videos of the actual research, photos), which can be read online before the practical classes. The use of an internet connection also makes it possible to play back the video recorded by the simulation student, as well as download and archive the film. It is difficult to imagine the development of a modern medical teaching process without this kind of educational tools allowing to reduce the distance between the theory we teach and its practical application. The ethical aspect of such didactic innovations is also important, because students and trainees acquire practical skills without creating any discomfort or risk to patients.



GI Mentor Express (Tomasz Lewandowski UPWr)



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