SZKOŁA GŁÓWNA GOSPODARSTWA WIEJSKIEGO

Dog and cat diseases - surgery

Educational subject description sheet

Basic information

Field of study Veterinary Medicine	**Didactic cycle** 2023/24
Speciality -	**Subject code** WETFVMS_D.5100K.6422ca81d9b2b.23
Organizational unit Faculty of Veterinary Medicine	**Lecture languages** english
Study level long-cycle	**Mandatory** Obligatory subjects
Study form full-time studies	**Block** Major subjects
Education profile General academic	**Disciplines** Veterinary medicine

Coordinator	Marek Galanty
Teacher	Marek Galanty, Jacek Sterna, Beata Degórska, Piotr Trębacz, Jan Frymus, Joanna Berczyńska, Mikhal Baranski

Period	**Examination**	**Number of ECTS points**
Semester 9	Exam **Activities and hours** Lecture: 15 Ćwiczenia kliniczne: 55	4

Goals

Code	Goal
C1	The course will provide the knowledge in diagnostics and treatment of the most common procedures of Dog and Cat Surgery Animal diseases. Students, after completing the course should be able to: - identify proper signal, the chief complaint, - review medical history, - perform a thorough physical examination, - select diagnostic and therapeutic procedure, - collect and interpret laboratory data, - perform basic surgery procedures and anaesthesia protocols - choose the right postoperative surgery treatment and follow-up protocol

Entry requirements

Animal physiology modules 1-2, Animal anatomy modules 1-2, Histology and embryology modules 1-2, Veterinary pharmacology modules 1-2, Pathomorphology modules 1-3, Diagnostic imaging, Clinical and laboratory diagnostics modules 1-2, General surgery and anesthesiology, Veterinary epidemiology, Parasitology and invasiology modules 1-2, Immunology, Biochemistry modules 1-2, Veterinary microbiology modules 1-2

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge – Student knows and understands:			
W1	the correct symptom, the most important disease problem of the patient; diagnostic, anaesthetic and surgical procedure; principles of collecting the material for additional diagnostic tests and interpretation of laboratory data; follow-up protocol; principles of diagnosis and treating the surgical diseases; principles of proper anaesthetic protocol	B.W1, B.W2, B.W3, B.W4, B.W5, B.W6, B.W9	Written exam, Test (written or computer based)
Skills – Student can:			
U1	perform a thorough physical examination, handle the animal in a professional manner (safely and with the restraint of the animal kept to a minimum) and basic surgical procedures	B.U1, B.U11, B.U12, B.U14, B.U4, B.U7	Written exam, Test (written or computer based)
Social competences – Student is ready to:			
K1	constantly update his knowledge and skills	KS.7, KS.8	Written exam, Test (written or computer based)

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Causes, classification, symptoms and diagnostics of bone fractures in animals. Ad hoc treatment. Biology of fracture healing. Indications and methods of surgical fracture treatment. Complications of fracture treatment. Joint luxation. Hernias causes and types, clinical symptoms, therapeutics. Oesophageal diseases in small animals. Types, symptoms and recognition. Treatment. Laparotomy, indications, types. Wound closure after the surgery. Dilatation and volvulus of the stomach. Aethiopatogenesis. Symptoms and diagnostics, conservative treatment and surgery. Bowel obstruction, types. Clinical symptoms and diagnostics – indications for surgical treatment. Surgical tumour treatment in animals. Point of treatment. Indications for surgery. Surgical methods of treatment. Urinary tract occlusion. Symptoms, diagnostics, treatment. Upper respiratory tract obstruction. Diseases, symptoms and differential diagnostics. Indications for surgical treatment. Surgery of selected thoracic cavity diseases, traumas, liquid collection in the thoracic cavity, thoracotomy.	W1, U1, K1	Lecture

2.	External ear diseases: wounds, haematomas, tumours and inflammations. Diagnostics and surgical treatment of urinary tract diseases causing urination disorders: urinary tract occlusion, bladder and urethral calculi, tumours, and wounds. Hernias: inguinal, umbilical, srotchal, posttraumatic. - Diseases of the eye socket, eyelids and the eyeball. Wounds – causes, types, wound description, symptoms, diagnostics and treatment. Gastrointestinal tract occlusion; intussusception; gastric volvulus, neoplasms; conglomerates, foreign body, pylorus diseases. Rules of ASA classification of patients, considering age, clinical status and disease advancement. Cryptorchismus, congenital malformations of the genitalia. - Traumatology – luxations and fractures. Anaesthesia management of young and old patients with cardiac and venous insufficiency, kidney failure, endocrinal and metabolic disease. Laparotomy and surgery of the abdomen (gastrotomy, enteroctomy, splenectomy). Diagnosis and surgical treatment of rectal diseases, neoplasia of the anus, rectal prolapse, and perirectal gland diseases (inflammation, neoplasia). Teeth and peridental diseases – periapexial abscess, dental plaque, teeth trauma and splanchnocranium. Diagnostics and surgical treatment of skin and soft tissue tumours. Limbs, digits, tail amputations.	W1, U1	Lecture, Ćwiczenia kliniczne

Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, Presentation
Ćwiczenia kliniczne	Case study, Presentation, Observation

Activities	Examination method	Percentage
Lecture	Written exam	50%
Ćwiczenia kliniczne	Test (written or computer based)	50%

Activities	Credit conditions
Lecture	Written test from lectures in the form of 5 open questions. Each rated 4 points Scores 10 pts (50%)
Ćwiczenia kliniczne	Participation in classes in accordance with the study regulations is a condition for taking the credit. Written test on the exercise material in the form of a single-choice test. The single-choice test contains 20 questions, each scored 1 point. In order to obtain a pass, it is necessary to obtain min 15 points (75%). In total, out of 40 points (lectures 20 points + exercises 20 points) it is necessary to obtain 25 points (62.5%)

Literature

Obligatory

1. - T. Fossum Small Animal Surgery, Third Edition, , Mosby Elsevier 2007 - Platt. S., Olby N. : “BSAVA Manual of Canine and Feline Neurology”, 2nd edition - Journal of Feline Medicine and Surgery 2013, vol. 15, issue 7

Optional

1. - J. Steiner: “Small Animal Gastroenterology”, 2008 - E. Hall, JW. Simpson, D. Williams: BSAVA Manual of Canine and Feline Gastroenterology” 2nd edition - J. Eliott, G. Grauer: “BSAVA Manual of Canine and Feline Nephrology and Urology”, 2nd edition - D Slater: "Textbook of small animal surgery" 2nd edition - Johnston S.A. Tobias K.M. "Veterinary Surgery Small Animal 2nd edition

Calculation of ECTS points

Activity form	**Activity hours***
Lecture	15
Ćwiczenia kliniczne	55
Preparation for exercises	20
Preparation for the test	30
Student workload	**Hours** 120
Number of ECTS points	**ECTS** 4

* hour means 45 minutes

Effects

Code	Content
KS.7	Absolwent jest gotów do rzetelnej samooceny, formułowania konstruktywnej krytyki w zakresie praktyki weterynaryjnej, przyjmowania krytyki prezentowanych przez siebie rozwiązań, ustosunkowywania się do niej w sposób jasny i rzeczowy, także przy użyciu argumentów odwołujących się do dostępnego dorobku naukowego w dyscyplinie
KS.8	Absolwent jest gotów do pogłębiania wiedzy i doskonalenia umiejętności
B.U1	Absolwent potrafi bezpiecznie i humanitarnie postępować ze zwierzętami oraz instruować innych w tym zakresie
B.U4	Absolwent potrafi udzielać pierwszej pomocy zwierzętom w przypadku krwotoku, ran, zaburzeń oddechowych, urazów oka i ucha, utraty przytomności, wyniszczenia, oparzenia, uszkodzenia tkanek, obrażeń wewnętrznych i zatrzymania pracy serca
B.U7	Absolwent potrafi stosować aparaturę diagnostyczną, w tym radiologiczną, ultrasonograficzną i endoskopową, zgodnie z jej przeznaczeniem i zasadami bezpieczeństwa dla zwierząt i ludzi oraz interpretować wyniki badań uzyskane po jej zastosowaniu
B.U11	Absolwent potrafi stosować metody bezpiecznej sedacji, ogólnego i miejscowego znieczulenia oraz oceny i łagodzenia bólu
B.U12	Absolwent potrafi monitorować stan pacjenta w okresie śród- i pooperacyjnym w oparciu o podstawowe parametry życiowe
B.U14	Absolwent potrafi wdrożyć zasady aseptyki i antyseptyki chirurgicznej oraz stosować właściwe metody sterylizacji sprzętu
B.W1	Absolwent zna i rozumie zaburzenia na poziomie komórki, tkanki, narządu, układu i organizmu w przebiegu choroby
B.W2	Absolwent zna i rozumie mechanizmy patologii narządowych i ustrojowych
B.W3	Absolwent zna i rozumie przyczyny i objawy zmian anatomopatologicznych, zasady leczenia i zapobiegania w poszczególnych jednostkach chorobowych
B.W4	Absolwent zna i rozumie zasady postępowania diagnostycznego, z uwzględnieniem diagnostyki różnicowej, oraz postępowania terapeutycznego
B.W5	Absolwent zna i rozumie zasady przeprowadzania badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W6	Absolwent zna i rozumie sposób postępowania z danymi klinicznymi i wynikami badań laboratoryjnych i dodatkowych
B.W9	Absolwent zna i rozumie zasady zapewniania dobrostanu zwierząt