



SZKOŁA GŁÓWNA
GOSPODARSTWA
WIEJSKIEGO

Clinical and laboratory diagnostics in emergency veterinary medicine

Educational subject description sheet

Basic information

Field of study Veterinary Medicine	Didactic cycle 2024/25
Speciality -	Subject code WETFVMS_D.5200.01786.24
Organizational unit Faculty of Veterinary Medicine	Lecture languages english
Study level long-cycle	Mandatory Elective subjects
Study form full-time studies	Block Major subjects
Education profile General academic	Disciplines Veterinary medicine
Coordinator	Agnieszka Wrzeńska
Teacher	Agnieszka Wrzeńska
Period Semester 10	Examination Pass with grade
	Activities and hours Laboratory exercises: 15
	Number of ECTS points 1

Goals

Code	Goal
C1	The aim of the course is to learn the basic diagnostic methods used in animal emergency medicine, to diagnose correctly life-threatening states in animals based on physical examination, symptoms and additional tests.

Entry requirements

Students should have theoretical and practical knowledge acquired in the topographic anatomy, animal physiology, pathophysiology and clinical and laboratory diagnostics

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	how to evaluate an algorithm for estimating an animal's life threat risk	B.W4, B.W5, B.W6	Test (written or computer based)
Skills - Student can:			
U1	provide evaluating emergency care prioritising	B.U3, B.U4, B.U6	Test (written or computer based)
Social competences - Student is ready to:			
K1	decide on the proper animal monitoring based on physical examination and symptoms	KS.10, KS.3, KS.4, KS.5	Test (written or computer based)

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	The course will encompass the following topics: - diagnostic evaluation of life-threatening symptoms and principles of cardiopulmonary resuscitation -diagnostic evaluation of shock (cardiogenic, obstructive, hypovolemic, metabolic and anaphylactic) -diagnostic evaluation of respiratory cardio-vascular, gastrointestinal, urogenital, neurological, endocrinology, toxicological and neonatology emergencies - critical care monitoring - fluid therapy and diagnostic evaluation of dehydration emergencies	W1, U1, K1	Laboratory exercises

Course advanced

Activities	Methods of conducting classes	
Laboratory exercises	Conversation lecture, Case study	
Activities	Examination method	Percentage
Laboratory exercises	Test (written or computer based)	100%
Activities	Credit conditions	

Activities	Credit conditions
Laboratory exercises	students must have at least 80% presence at seminars students must perform cardiopulmonary resuscitation on phanthom students must prepare clinical cases presentation final test

Literature

Obligatory

1. Silverstein D., Hoppe K.: Small Animal Critical Care Medicine, 3rd edition, Saunders, 2022.
2. Kirby R., Rudloff E., Linklater A.: Small Animal Emergency and Critical Care Medicine, Apple Academic Press Inc, 2015.
3. Mazzaferro E.: Emergency and Critical Care of Small Animals, An Issue of Veterinary Clinics of North America: Small animal practice, 2nd edition, Elsevier 2020.

Optional

1. Roznanski E. A., Rush J. E.: A color handbook of small animal emergency and critical care medicine, Manson Publishing, 2007.
2. Byers Ch. G., Giunti M.: Feline Emergency and Critical Care Medicine, Edra Spa, 2021.
3. King L., Boag A.: BSAVA Manual of Canine and Feline Emergency and Critical Care, BSAVA, 2007.
4. Hackett T. B., E.: Mazzaferro Veterinary Emergency and Critical Care Procedures, Wiley Blackwell, 2012.
5. McMichael M.: Handbook of Canine and feline emergency protocols, Wiley and Sons, 2014.

Calculation of ECTS points

Activity form	Activity hours*
Laboratory exercises	15
Preparing a report	5
Self-study on the content covered in class	5
Preparation for the exam	5
Student workload	Hours 30
Number of ECTS points	ECTS 1

* hour means 45 minutes

Effects

Code	Content
KS.3	Absolwent jest gotów do udziału w rozwiązywaniu konfliktów, a także wykazywania się elastycznością w reakcjach na zmiany społeczne
KS.4	Absolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.5	Absolwent jest gotów do formułowania wniosków z własnych pomiarów lub obserwacji
KS.10	Absolwent jest gotów do działania w warunkach niepewności i stresu
B.U3	Absolwent potrafi przeprowadzać pełne badanie kliniczne zwierzęcia
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.U6	Absolwent potrafi pobierać i zabezpieczać próbki do badań oraz wykonywać standardowe testy laboratoryjne, a także prawidłowo analizować i interpretować wyniki badań laboratoryjnych
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