



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Clinical and laboratory diagnostics in emergency veterinary medicine

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Veterinary Medicine	<b>Didactic cycle</b> 2024/25
<b>Speciality</b> -	<b>Subject code</b> WETFVMS_D.5200K.01786.24
<b>Organizational unit</b> Faculty of Veterinary Medicine	<b>Lecture languages</b> english
<b>Study level</b> long-cycle	<b>Mandatory</b> Elective subjects
<b>Study form</b> full-time studies	<b>Block</b> Major subjects
<b>Education profile</b> General academic	<b>Disciplines</b> Veterinary medicine
<b>Coordinator</b>	Agnieszka Wrzeńska
<b>Teacher</b>	Agnieszka Wrzeńska
<b>Period</b> Semester 10	<b>Examination</b> Pass with grade
	<b>Activities and hours</b> Laboratory exercises: 15
	<b>Number of ECTS points</b> 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
<b>Knowledge - Student knows and understands:</b>			
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)
<b>Skills - Student can:</b>			
U1	provide evaluating emergency care prioritising	B.U3, B.U4, B.U6	Test (written or computer based)
<b>Social competences - Student is ready to:</b>			
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	

<b>Activities</b>	<b>Credit conditions</b>
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

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

\* hour means 45 minutes

## Effects

Code	Content
KS.3	label.effect.prefix.competenceAbsolwent jest gotów do udziału w rozwiązywaniu konfliktów, a także wykazywania się elastycznością w reakcjach na zmiany społeczne
KS.4	label.effect.prefix.competenceAbsolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.5	label.effect.prefix.competenceAbsolwent jest gotów do formułowania wniosków z własnych pomiarów lub obserwacji
KS.10	label.effect.prefix.competenceAbsolwent jest gotów do działania w warunkach niepewności i stresu
B.U3	label.effect.prefix.skillAbsolwent potrafi przeprowadzać pełne badanie kliniczne zwierzęcia
B.U4	label.effect.prefix.skillAbsolwent 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	label.effect.prefix.skillAbsolwent potrafi pobierać i zabezpieczać próbki do badań oraz wykonywać standardowe testy laboratoryjne, a także prawidłowo analizować i interpretować wyniki badań laboratoryjnych
B.W4	label.effect.prefix.knowledgeAbsolwent zna i rozumie zasady postępowania diagnostycznego, z uwzględnieniem diagnostyki różnicowej, oraz postępowania terapeutycznego
B.W5	label.effect.prefix.knowledgeAbsolwent zna i rozumie zasady przeprowadzania badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W6	label.effect.prefix.knowledgeAbsolwent zna i rozumie sposób postępowania z danymi klinicznymi i wynikami badań laboratoryjnych i dodatkowych