



SZKOŁA GŁÓWNA
GOSPODARSTWA
WIEJSKIEGO

Applied pharmacology of companion animals

Educational subject description sheet

Basic information

Field of study Veterinary Medicine		Didactic cycle 2025/26
Speciality -		Subject code WETFVMS_D.5400K.01798.25
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	Wojciech Karlik	
Teacher	Wojciech Karlik	
Period Semester 11	Examination Pass with grade Activities and hours Lecture: 15	Number of ECTS points 1

Goals

Code	Goal
C1	To familiarize students with clinical pharmacology and principles of pharmacotherapy of selected disease occurring in companion animals, based on veterinary medicinal products currently authorized in UE. Familiarization with the current list of authorized medicines in the student's country.
C2	An indication of the limitations of pharmacotherapy resulting from the shape of the pharmaceutical market, loss of drug activity, and interactions.
C3	Indication of differences in practical use between authorized formulations with the same active substance. Possibilities and restrictions with the extra-label use of drugs

Entry requirements

Subjects with which the student must have a positive assessment: veterinary pharmacology module 1 and module 2.

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	veterinary medicinal products which use in companion animals	B.W3, B.W4	Written credit, Project
W2	the practical principles of drug selection in given clinical symptom and disease units in companion animals	B.W3, B.W4	Written credit, Project
W3	the practical principles of using chemotherapeutic in companion animals.	B.W3, B.W4	Written credit, Project
W4	the principles of combining drugs in combination therapy in selected disease in companion animals.	B.W3, B.W4	Written credit, Project
Skills - Student can:			
U1	to explain the differences, and critically assess the effectiveness of therapy conducted with different drugs with the same basic effect.	B.U13, B.U9	Written credit, Project
U2	assess the benefits and risks of therapy.	B.U13, B.U9	Written credit, Project
U3	critically evaluate the proposed therapeutic solutions.	B.U13, B.U9	Written credit, Project
U4	correctly assesses the importance of the selected medicinal product in the planned therapy.	B.U13, B.U9	Written credit, Project
Social competences - Student is ready to:			
K1	select in a responsible manner products for therapy, from approved medicinal products.	KS.1	Written credit, Project
K2	guided primarily by the good of the patient when choosing a medicinal product.	KS.2, KS.4	Written credit, Project
K3	supplement knowledge in the field of new medicinal products.	KS.4, KS.8	Written credit, Project
K4	selects the medicinal product based on reliable knowledge.	KS.4, KS.8	Written credit, Project

Code	Outcomes in terms of	Effects	Examination methods
K5	aware of the consequences of decisions regarding the choice of a medicinal product.	KS.1, KS.2	Written credit, Project

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Principles of use of antibiotics in companion animals.	W3, W4, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
2.	Pharmacotherapy of selected cardiovascular diseases in companion animals - drugs used in pharmacotherapy of cardiovascular system.	W1, W2, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
3.	Pharmacotherapy of selected diseases of respiratory system in companion animals - drugs used in pharmacotherapy of respiratory system.	W1, W2, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
4.	Pharmacotherapy of selected skin and ear diseases in companion animals - drugs used in pharmacotherapy of skin.	W1, W2, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
5.	Pharmacotherapy of selected diseases of urinary tract in companion animals - drugs used in pharmacotherapy of urinary tract.	W1, W2, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
6.	Pharmacotherapy of selected diseases of CNS in companion animals - drugs used in pharmacotherapy of central nervous system. Pharmacotherapy of convulsions	W1, W2, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture

Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, Case study, Analysis of source materials, Individual work

Activities	Examination method	Percentage
Lecture	Project	75%
Lecture	Written credit	25%

Activities	Credit conditions
Lecture	Written test, which consists of 10 descriptive questions. A total of 100 percentage points can be obtained from the test, where 100% is the sum of points to be obtained from individual questions. A report prepared by a student on veterinary medicinal products authorized in his country. To obtain a passing grade, the student must obtain 51% of the test and prepare a report in accordance with the requirements.

Literature

Obligatory

1. List of authorized veterinary medicinal product
2. Small animal clinical pharmacology & therapeutics /[ed. by] Dawn Merton Boothe. - St. Louis : Elsevier Saunders, cop. 2012.
3. Veterinary pharmacology and therapeutics /edited by Jim E. Riviere, Mark G. Papich. --Hoboken : Wiley Blackwell, © 2018.

Optional

1. Essential calculations for veterinary nurses and technicians /Terry Lake, Nicola Green ; foreword by Margi Sirois. - St. Louis : Elsevier, cop. 2017
2. Veterinary applied pharmacology and therapeutics /[oprac.] G.C. Brander. - Baillière Tindall.
3. Clinical pharmacology and therapeutics /ed. Katrina L. Mealey. - Philadelphia, Pa. : Elsevier, 2013.
4. Veterinary psychopharmacology /Sharon L. Crowell-Davis, Thomas F. Murray, Leticia Mattos de Souza Dantas. - Hoboken : Wiley Blackwell, © 2019

Calculation of ECTS points

Activity form	Activity hours*
Lecture	15
Preparing a report	10
Preparation for the test	5
Student workload	Hours 30
Number of ECTS points	ECTS 1

* hour means 45 minutes

Effects

Code	Content
KS.1	Absolwent jest gotów do wykazywania odpowiedzialności za podejmowane decyzje wobec ludzi, zwierząt i środowiska przyrodniczego
KS.2	Absolwent jest gotów do prezentowania postawy zgodnej z zasadami etycznymi i podejmowania działań w oparciu o kodeks etyki w praktyce zawodowej oraz do wykazywania tolerancji dla postaw i zachowań wynikających z odmiennych uwarunkowań społecznych i kulturowych
KS.4	Absolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.8	Absolwent jest gotów do pogłębiania wiedzy i doskonalenia umiejętności
B.U9	Absolwent potrafi pozyskiwać i wykorzystywać informacje o weterynaryjnych produktach leczniczych dopuszczonych do obrotu
B.U13	Absolwent potrafi dobierać i stosować właściwe leczenie
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