	SYLLABUS OF DISCIPLINE «Veterinary pharmacology»
Нубіп	Educational lever - Master
TRADERS MOGHED	Specialty 211 Veterinary medicine Ветеринарна медицина
	Educational program Veterinary medicine
	Year of training (course) 3 (full term of study), semester <u>5-6</u>
	Form of study <u>full-time</u>
	Quantity of ECTS credits <u>5</u>
	Language English
Lecturer of course	I.M. Derkach , PhD, Associate Professor of the Department of
Contact information (e-	Pharmacology, Parasitology and Tropical Veterinary Medicine
mail) of lecturer	Derkach_im@nubip.edu.ua
Page of course in eLearn	https://elearn.nubip.edu.ua/course/view.php?id=2710

DESCRIPTION OF THE DISCIPLINE

Pharmacology is an experimental science that studies changes in the living organism under the influence of drugs for their use in the practice of veterinary medicine and the search for new effective drugs.

The main purpose of the discipline is to study the pharmacodynamics of basic drugs, namely the reaction of a living organism to their influence in the absence of disease; to study pharmacokinetics, namely the basic laws of absorption, distribution, biotransformation and excretion of drugs from the body; to get some knowledge of pharmaceutical disciplines : pharmacognosy, pharmaceutical chemistry, technology of manufacturing dosage forms and recipe. All this knowledge is necessary for the ultimate goal of the discipline in the system of doctor (master) of veterinary medicine - pharmacotherapy, pharmacoprophylaxis and pharmacostimulation, which will allow a specialist from a large number of drugs to choose the most necessary for effective treatment of animals, prevention of disease, stimulation of physiological functions.

Acquisition of competencies. Integral competence : The ability to solve complex tasks and problems in the field of veterinary medicine, which involves conducting research and/or implementing innovations and is characterized by the uncertainty of conditions and requirements. General competencies : ability to apply knowledge in practical situations; the ability to conduct research at the appropriate level; the ability to make reasonable decisions; the desire to preserve the environment. Professional (special) competencies : the ability to use tools, special devices, devices, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities; the ability to plan, organize and implement measures for the treatment of animals of different classes and species that are sick with non-communicable, infectious and invasive diseases; the ability to develop strategies for the prevention of diseases of various etiologies; the ability to use specialized software to perform professional tasks; the ability to organize, implement and control the flow of documents during professional activities.

Program learning outcomes : know and correctly use the terminology of veterinary medicine; use information from domestic and foreign sources to develop diagnostic, treatment and business strategies; to determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathological conditions; collect anamnestic data during registration and examination of animals, make decisions regarding the choice of effective methods of diagnosis, treatment and prevention of animal diseases; to develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies; formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-contagious diseases, as well as

production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species; monitor the causes of the spread of diseases of various etiologies and biological pollution of the environment with livestock waste, as well as veterinary materials and means; develop measures aimed at protecting the population from diseases common to animals and humans; know the rules of storage of various pharmaceuticals and biological preparations, ways of their enteral or parenteral use, understand the mechanism of their action, interaction and complex action on the animal body; to carry out educational activities among industry workers and the population.

	Horres			
Торіс	Hours (lectures / laboratory / independent)	Results	Tasks	Evaluation
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		Module 1		
Topic 1 Veterinary pharmacology and its tasks. History of pharmacology Pharmacotherapy. Pharmacokinetics. Ways of introducing drugs into the animal's body	2	Know the subject and objectives of veterinary pharmacology. Understand the concepts of pharmacotherapy and pharmacokinetics. Distinguish ways of introducing drugs into the animal's	Writing of the essay. Execution of the independent work	Up to 1 point for the essay; up to 1 point for the independent work
Topic 2 Veterinary recipe. The structure of recipes. Pharmacopoeia. Ways to write recipes. Measures of mass and volume in the recipe. Principles of dosing of drugs. Pharmacy. Storage of veterinary drugs4	4	body Know the subject of veterinary prescription, the principles of dosing of drugs and the purpose of the pharmacopoeia and pharmacy. Understand the structure of the recipe. Write recipes in different ways	Execution of the laboratory work	Up to 10 points for the laboratory works
Topic 3 Physicochemical factors of drug transport across cell membranes and their distribution in animals. Biotransformation of drugs and their excretion from the body	2	Analyze the physicochemical factors of drug transport across cell membranes and their distribution in the body. Understand the biotransformation of drugs and their	Writing of the essay	Up to 1 point for the essay

STRUCTURE OF THE COURSE

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Drugs that act mainly on the peripheral nervous system. Classification. Drugs that suppress the function of afferent nerves. Local anesthetics	-			-	
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that suppress the function of afferent nerves. Local anestheticsthe function of afferent nerves. Understand theworks	-		-		-
function of afferent afferent nerves. nerves. Local Understand the				-	
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anesthefics					
			requirements and		
(requirements, mechanism of action	· •		-		
classification, of local anesthetics	-				
mechanism of action). Types of local Be able to write			Be able to write		
Types of local recipes	i ypes of local		recipes		

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of direct and indirect action. Adrenolytic agents. Antihistamines		mechanism of their action. Be able to write recipes	independent works	independent works
Modular control. Colloquium 3	2	Use the acquired knowledge when doing tasks	Doing of the test tasks	Up to 30 points for tests
Total in the semester 1		•		70
Test				30
Total for the course		<u> </u>		100
		Semester 2		
Taria 24	2/2/2	Module 4	Writing of the	I In to 1 moint for
Topic 24 Drugs acting on the cardiovascular system. Cardiac glycosides. Drugs that normalize heart rate. Antispasmodics	2/2/2	Know the drugs acting on the cardiovascular system, the cardiac glycosides and the drugs that normalize heart rate; understand the mechanism of their action. Be able to write recipes	Writing of the essay. Execution of the laboratory and independent works	Up to 1 point for the essay, up to 20 points for the laboratory and independent works
Topic 25 Drugs acting on (hemostasis) blood clotting processes. Blood substitutes. Drugs that affect immune processes	2/2/2	Know the drugs acting on (hemostasis) blood clotting processes, blood substitutes and the drugs that affect immune processes; understand the mechanism of their action. Be able to write recipes	Writing of the essay. Execution of the laboratory and independent works	Up to 1 point for the essay, up to 20 points for the laboratory and independent works
Topic 26 Diuretics (diuretics). Drugs that stimulate liver function (cholagogues). Drugs that affect the tone and contraction of the uterus	2/2	Know the diuretics (diuretics), the drugs that stimulate liver function (cholagogues), the drugs that affect the tone and contraction of the uterus; understand the mechanism of their action. Be able to write recipes	Writing of the essay. Execution of the laboratory work	Up to 1 point for the essay, up to 20 points for the laboratory work
Topic 27 Drugs that regulate metabolic processes. Vitamins and vitamin preparations: classification,	2/2/2	Know the drugs that regulate metabolic processes, vitamin preparations, their classification, mechanism of	Writing of the essay. Execution of the laboratory and	Up to 1 point for the essay, up to 20 points for the laboratory and independent works

				T1
mechanism of action		action and	independent	
and characteristics of		characteristics of	works	
certain groups.		certain groups,		
Multivitamins		multivitamins;		
		understand the		
		mechanism of their		
		action. Be able to		
		write recipes		
Topic 29	2/2/2	Know the hormonal	Writing of the	Up to 1 point for
Hormonal drugs.		drugs, the	essay.	the essay, up to
Classification of		classification of	Execution of	• -
				20 points for the
hormones and		hormonal drugs,	the laboratory	laboratory and
hormonal drugs. The		their mechanism of	and	independent
mechanism of action of		action of hormonal	independent	works
hormonal drugs.		drugs, the	works	
Estrogens,		prostaglandins;		
progestogens and		understand the		
androgens. Drugs of		mechanism of their		
pituitary hormones and		action. Be able to		
adrenal cortex.		write recipes		
Prostaglandins		· ·		
	2/2/2	Know the tissue	Writing of the	Up to 1 point for
		drugs, the enzyme	essay.	the essay, up to
Topic 28		and bacterial drugs,	Execution of	20 points for the
Tissue drugs. Enzyme		the drugs of amino	the laboratory	laboratory and
and bacterial drugs.		acid; understand the	and	independent
Drugs of amino acid		mechanism of their	independent	works
Drugs of annio acid		action. Be able to	works	WOIKS
		write recipes	WOIKS	
	2/2/2	Know the drugs of	Writing of the	Up to 1 point for
Topic 28		U	U	
Drugs that affect the		macro- and	essay.	the essay, up to
metabolism of		micronutrients, the	Execution of	20 points for the
minerals. Drugs of		complex drugs of	the laboratory	laboratory and
macro- and		mineral substances;	and	independent
micronutrients		understand the	independent	works
Complex drugs of		mechanism of their	works	
mineral substances		action. Be able to		
		write recipes		
Modular control.	2	Use the acquired	Doing the test	Up to 30 points
		knowledge when	tasks	for the tests
Colloquium 4		doing tasks		
		Module 5		
	2/2/2	Know medicinal	Writing of the	Up to 1 point for
Topic 30		dyes, sulfonamides	essay.	the essay, up to
Antimicrobials.		and nitrofuran	Execution of	20 points for the
Medicinal dyes.		drugs. Understand	the laboratory	laboratory and
Sulfanilamides.		their mechanism of	and	independent
Nitrofurans.		action. Write	independent	works
		recipes	works	
Topic 31	6/6/5	Know the	Writing of the	Up to 1 point for
Antibiotics:	0/0/3	classification,	U	
		,	essay. Execution of	the essay, up to
classification by origin,		understand the	Execution of	20 points for the

structure, strength and spectrum of antimicrobial action. Rules of rational use of antibiotics and their pharmacokinetics. Negative consequences of irrational use of antibiotics. Characteristics of antibiotics of different groups		mechanism of action of antibiotics of different groups, the rules of their rational use. Be able to write recipes for them	the laboratory and independent works	laboratory and independent works
Topic 32 Antiseptics and disinfectants. Factors influencing their action. Requirements for antiseptics and disinfectants. Oxidizers. Halogen- containing drugs. Iodine drugs. Aliphatic drugs Disinfectants. Detergents (soaps and detergents). Formaldehyde drugs, phenols, cresols and their derivatives. Quaternary ammonium compounds	4/4/2	Know the classification and understand the mechanism of action of antiseptics and disinfectants. Analyze the requirements for them and the factors influencing their action. Be able to write recipes	Writing of the essay. Execution of the laboratory and independent works	Up to 1 point for the essay, up to 20 points for the laboratory and independent works
Topic 33 Antiparasitic drugs. Anthelmintics. Insecticides and acaricides. Drugs for rodent control	4/2	Know antiparasitic drugs, understand the mechanism of their action. Be able to write recipes	Writing of the essay. Execution of the laboratory work	Up to 1 point for the essay, up to 20 points for the laboratory work
Topic 34 Antiviral drugs. Antiprotozoal drugs. Eimeriostatic drugs	2/1	Know the classification and mechanism of action of antiviral, antiprotozoal and eimeriostatic agents. Write recipes	Writing of the essay. Execution of the laboratory work	Up to 1 point for the essay, up to 20 points for the laboratory work
Modular control. Colloquium 5	2	Use the acquired knowledge when doing tasks	Doing of the test tasks	Up to 30 points for the tests
Total for the semester 2			1	70
Exam				30
All together				100

EVALUATION POLICY

Laboratory, independent and modular works must be submitted in
the planned time before the end of the study of the current module.
Violation of the deadlines without a good reason entitles the teacher
to lower the grade. Reassignment of modular control work occurs in
the presence of valid reasons (for example, hospital) and is allowed
in the term before the end of the following module.
Copying, use of mobile devices, and additional literature when
writing modular tests, tests and exams are strictly prohibited.
Attendance at lectures and laboratory classes is mandatory for all
students in the group. Late classes are not allowed. A lab coat is a
must in laboratory classes. For objective reasons (for example,
illness, international internship) training can take place according to
an individual curriculum approved in a certain order. Missed
lectures, after their processing by the applicant of higher education,
are worked out in the form of an interview with the teacher. Missed
laboratory classes are worked out by students in the laboratory of the
department, information about the practice is entered into the
departmental journal of the practice of missed classes.

Rating of the	The national assessment is for the results of examinations, tests		
applicant of higher education, points	exams	tests	
90-100	excellent 74-89 60-73 0-59	credited	
74-89	good		
60-73	satisfactorily		
0-59	unsatisfactorily	not credited	

SCALE OF EVALUATION OF STUDENTS

RECOMMENDED SOURCES OF INFORMATION

1. Guidelines for laboratory classes of the discipline «Veterinary pharmacology» Module 2. Drugs affecting the central nervous system) / [I. M. Derkach, V.B. Duhnytsky, V. D. Ischenko, et al.] // К.: Видавничий центр «Компринт». – 2022. – С. 32.

2. Guidelines for laboratory classes of the discipline «Veterinary pharmacology» Module 3. Drugs affecting the peripheral nervous system / [I. M. Derkach, V.B. Duhnytsky, V. D. Ischenko, et al.] // К.: Видавничий центр «Компринт». – 2022. – С. 32.

3. Guidelines for laboratory classes of the discipline «Veterinary pharmacology» Module 4. Drugs regulating the functions of organs and system / [I. M. Derkach, V.B. Duhnytsky, V. D. Ischenko, et al.] // К.: Видавничий центр «Компринт». – 2022. – С. 32.

4. Guidelines for laboratory classes of the discipline «Veterinary pharmacology» Module 5. Antimicrobial and antiparasitic drugs / [I. M. Derkach, V.B. Duhnytsky, V. D. Ischenko, et al.] // К.: Видавничий центр «Компринт». – 2022. – С. 32.

5. Fundamentals of prescription writing "Guideline for practical training in "Veterinary pharmacology" course for students of Faculty of Veterinary Medicine / V.B. Duhnytsky, I. M. Derkach, V. D. Ischenko, et al. // К.: Видавничий центр «Компринт». – 2017. – С. 45.

6. Guidance for educational practice for the students of degree "Bachelor" taught cours "Veterinary Pharmacology" / V. B. Duhnytsky, I. M. Derkach // К.: Видавничий центр «Компринт». – 2017. – С. 38.

- 7. Veterinary pharmacology / Dukhnicky V., Derkach I., Vosnuk T. K., 2019.
- 8. Fundamentals of prescription writing / I.M. Derkach Kyiv : Comprint, 2022. 128 p.
- 9. Ветеринарна фармакологія: підручник / Хмельницький Г.О., Духницький В.Б. –

К., 2017. – 571 с.

10. Аптечний практикум (навчальний посібник для лабораторних занять з дисципліни «Ветеринарна фармакологія» для студентів ОС «Бакалавр» та «Магістр» / В.Б. Духницький, І.М. Деркач – К.: ЦП Компринт, 2017, 162 с.

11. Сучасна фармакологічна термінологія у ветеринарній медицині/ В.Б. Духницький, І.М. Деркач – К.: ЦП Компринт, 2017, 202 с.

12. Довідник з ветеринарної фармакології / В.Б. Духницький, І.М. Деркач, В.Д. Іщенко, О.К. Гальчинська – Київ : ЦП «Компринт», 2019. – 232 с.

13. Державна фармакопея України. Перше видання. – Х.: РЕРІГ, 2002. Ветеринарні препарати / О.І. Канюка, І.І. Харів, В.М. Гунчак, Д.Ф. Гуфрій. – Львів, 2006. – 641 с.

14. Comparative and Veterinary Pharmacology / Cunningham F., Elliott J., Lees P. // Springer Heidelberg Dordrecht London New York, 2010. – 351 p.

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