SYLLABUS OF THE EDUCATIONAL COMPONENT



VETERINARY PHARMACOLOGY

specialty	211 Veterinary medicine	mandatory discipline	mandatory
educational program	Veterinary medicine	faculty	of veterinary medicine
educational level	Master's degree	Department	pharmacology and parasitology

TEACHER

Ladohubets Olena Vasylievna



Higher education - specialty biologist

Scientific degree - candidate of biological sciences 03.00.13 Human and animal physiology Academic title - associate professor of the department of pharmacology and parasitology Work experience - 20 years

Indicators of professional activity on the subject of the course:

- author of more than 7 methodological developments;
- author and co-author of more than 120 scientific works,
 including articles indexed in Web of Science scientometric databases 5,
- scientific-practical and methodical recommendations 7,
- educational and methodological manuals 4, GSTU 2.

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The following are involved in the teaching of the discipline: associate professor, candidate of medicine. Sciences Duchenko Kateryna Andriivna

G	SENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)			
Goal	formation of a holistic view of the pharmacokinetics and pharmacodynamics of the main groups of therapeutic agents, their pharmacotherapeutic and side effects. Particular attention is paid to the indications and contraindications for the use of medicinal drugs in veterinary practice.			
Format	lectures, practical classes, independent work, individual tasks			
Detailing of learning results and forms of their control	 Ability to search and process information from professional sources regarding the use of medicinal products for the treatment and prevention of animal diseases (ZK1, ZK2, ZK3, PRN2) / individual tasks for analysis Ability to treat and prevent animal diseases using medicines (ZK2, ZK3, ZK7, ZK8, PRN3, PRN6) / individual practical tasks Ability to understand the importance and necessity of carrying out treatment and preventive measures with the use of medicinal products (ZK2, ZK3, ZK10, FK8, PRN6, PRN7) / individual situational tasks The ability to organize, conduct and analyze the results of special laboratory studies with the appropriate registration of their results (ZK2, ZK3, FK2, PRN7) / individual tasks for analysis Ability to timely and effectively develop and implement measures regarding the use of medicinal products (ZK2, ZK3, ZK8, FK8, PRN6, PRN7) / individual practical tasks 			
Scope and forms of control	6 ECTS credits (180 hours): 14 hours of lectures, 76 hours of laboratory classes; 90 hours of independent work, modular control (2 modules); final control - exam.			
Requirements of the teacher	timely completion of tasks, activity, teamwork			
Enrollment conditions	after mastering the following components: (list)" or "free enrollment"			

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

and invasive diseases species

STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

Module 1. General pharmacology. Recipe. Special pharmacology. Medicines that act mainly on the central nervous system. Medicines acting mainly in the area of peripheral nerve endings. Means for the treatment of allergic diseases

	area of peripheral nerve endings. Means for the treatment of allergic diseases					
Lecture 1.	The subject, methods, history and prospects of the development of pharmacology.	laboratory- practical classes LPC-1-2	General pharmacology. General recipe.			
	General pharmacology. Pharmacokinetics. Pharmacodynamics of medicines.	LPC 3-4	Solid dosage forms.		General pharmacology. Recipe. Special	
	Tharmacoaynamics of medicines.	LPC 5-6	Soft dosage forms.		pharmacology. Medicines that act mainly on the	
Lecture 2.	Central nervous system depressants. Anticonvulsant and psychotropic drugs.	LPC 7-8	Liquid dosage forms. Central nervous system depressants		central nervous system.	
	Neuroleptics, tranquilizers, sedatives.	LPC 9	Central nervous system depressants.		Medicines acting mainly in the area of	
	Analgesic agents. Means that stimulate the function of the central nervous system.	LPC 10	Inhalation and non-inhalation means for anesthesia. Sleep aids. Preparations for euthanasia.		peripheral nerve endings	
Lecture 3.	Means acting on the peripheral nervous system. Agents that suppress afferent (sensitive) nerves. Means that excite	LPC 11	Anticonvulsant and psychotropic drugs. Neuroleptics, tranquilizers, sedatives. Sedative drugs.	¥		
	sensitive receptors. Agents acting on the efferent nervous system.	LPC 12	Analgesic agents. Narcotic and non-narcotic analgesics.	nt work		
Lecture 4.	The subject, methods, history and prospects	LPC 13	Means that stimulate the function of the central nervous system. Psychostimulants,	Independent		
of the development of pharmacology	analeptics, nootropics, antidepressants.	de				
	General pharmacology. Pharmacokinetics. Pharmacodynamics of medicines.	LPC 14	Agents that suppress afferent (sensitive) nerves. Local anesthetics. Astringent, antacid and enveloping, adsorbing and complexing medicinal products.	=		
		LPC 15	Means that excite sensitive receptors.			
		LPC 16	Agents acting on the efferent nervous system. Means that stimulate M- and H-cholinergic, M- cholinergic, H- cholinergic receptors.			
		LPC 17-18	Agents acting on the efferent nervous system. M- and H-cholinoblockers, M-cholinoblockers. H-cholino-blockers. Anticholinesterase drugs. Reactivators of cholinesterase			

LPC 19	Medicines acting on cholinergic synapses.
	Ganglioblockers. Muscle relaxants. Agents
	acting on adrenergic synapses.

Module 2. Antimicrobial, antiviral and antiparasitic drugs. Deratizing drugs. Drugs affecting the hematopoietic system. Medicines regulating the functions of some organs and systems. Drugs affecting metabolism and the immune system.

	some organs	and systems. Dr	rugs affecting metabolism and the immune Antitumor drugs	system	1.
Lecture 5.	Chemotherapeutic drugs. Antibiotics. Sulfanilamides. Anthelmintic	LPC 20-21	Chemotherapeutic drugs. Antibiotics Penicillins. Cephalosporins. Aminoglycosides		
	drugs. Insecticidal and acaricidal preparations.	LPC 22	Chemotherapeutic drugs. Antibiotics. Tetracyclines. Levomycetin preparations.		
Lecture 6.	Drugs affecting the cardiovascular system. Cardiotonic means. Drugs affecting the blood system.		Macrolides. Rifamycins. Antibiotics of different groups. Treatment and prevention of coronavirus in small domestic animals		
		LPC 23 LPC 243	Sulfanilamides Antimicrobial drugs of various groups		
Lecture 7.	Medicines that affect the urinary system.	LPC 25	Antiseptic and disinfecting preparations.		
	Preparations for the treatment of organs of the gastrointestinal tract.	LPC 26	Antiparasitic drugs. Anthelmintic drugs. Insecticides and acaricides.	work	Antimicrobial, antiviral and antiparasitic drugs Deratizing drugs.
		LPC 27	Antiparasitic drugs. Insecticides and acaricides.	ndent	Drugs affecting the hematopoietic system. Medicines regulating the functions of some
		LPC 28	Antiprotozoal, coccidiostatic drugs. Zoocides.	Independent work	organs and systems Drugs affecting metabolism and the immune
		LPC 29	Drugs affecting the cardiovascular system.	_	system. Antitumor drugs
		LPC 30	Drugs affecting the blood system.		
		LPC 31	Medicines that affect the urinary system.		
		LPC 32	Preparations for the treatment of organs of		
			the gastrointestinal tract.		
		LPC 33	Enzyme preparations and probiotics.		
		LPC 34	Vitamin preparations.		
		LPC 35	Hormonal and antihormonal drugs		
		LPC 36	Medicines affecting immune processes		
		LPC 37	Antihypoxants and antioxidants		
		LPC 38	Antitumor drugs.		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Література

RECOMMENDED BOOKS

Basic literature

- 1. K.L. Mealy Pharmacotherapeutics for Veterinary Dispensing.-Wiley-Dlackwell, 2019.-417 p.
- 2. S.Giguere, J.Prescott, P.M.Dowling Antimicrobal Therapy in Veterinary Medicine.- Wiley-Dlackwell, 2013.- 675 p.
- 3. Walter H. Hsu Handbook of Veterinary Pharmacology.-Wiley-Dlackwell, 2008.-537 p.

Additional literature

- 4. D.C.Plamb Veterinary Drug Handbook.- Pharma Vet.Inc.- 2011, 573
- 5. M. Papich Sounders Handbook of Veterinary Drugs. Small and Large Animals.- Elsevier.- 2011, 812 p.

- 1. H.Luellmann, K.Mohr, L.Hein Color Atlas of Pharmacology-Thieme, 2017.-876 p.
- 2. L.Pokludova Antimicrobals in Livestock.- Springer, 2020.-312 p.
- 3. Recipe of veterinary medicine (Workbook). / Nikiforova O.V., Ladogubets O.V., Duchenko K.A., Harkusha I.V./ 2023-80 p.

EVALUATION SYSTEM (electronic link to regulations)					
SYSTEM			ACTIVITY TO BE EVALUATED		
Final assessment	100 point ECTS (standard)	up to 50	50% of the average grade for the modules		
		up to 50	final testing		
Modular assessment 100 points total		up to 50	answers to test questions		
		up to 20	oral answers in laboratory-practical classes		
		up to 30	the result of mastering the block of independent work		

забезпечення

Методичне

NORMS OF ACADEMIC ETHICS AND CHARITY

All participants in the educational process (including those seeking education) must adhere to the code of academic integrity and the requirements set forth in the provision "On academic integrity of participants in the educational process of DBTU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.