



PECULIARITIES OF REPRODUCTION OF SMALL ANIMALS

specialty	211 -Veterinary medicine	compulsory nature of the discipline	selective
educational program	educational program	faculty	veterinary medicine
educational level	-	department	Veterinary surgery and reproductive medicine

LECTURER

Zaika Petro Oleksandrovich



Higher education - specialty Veterinary Medicine Academic degree - Candidate of Veterinary Sciences, specialty 16.00.04 - Veterinary Pharmacology and Toxicology

Academic title - Associate Professor

Work experience - 23 years Indicators of professional activity on the subject of the course:

- Author of more than 20 methodological developments;
- 26 years of scientific work experience;
- co-author of a thematic publication in Web of Science.
- Participant of scientific and methodological conferences.
- practicing doctor
- Research interests: skin diseases of dogs and cats, anesthesiology, use of sodium humate

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Professor Dmytro Viktorovych Sliusarenko are involved in teaching the discipline.

	(GENERAL INFORMATION ABOUT THE ED	UCATIONA	L COMPONENT (DISCIPLINE)			
Aim		studying the structural characteristics and functional features of the organs of small animal reproduction regulation s peculiarities of keeping and using sires, methods of obtaining sperm, macro- and microscopic evaluation of its storage, artificial insemination techniques, embryo transplantation, peculiarities of the intrauterine period of small development, peculiarities of the structure and functioning of the fetoplacental complex, physiology and pathology of peculiarities of the physiological development of newborn puppies					
Format		lectures, practical classes, independent work, individ	dual assignmen	ts.			
Detailing of learning and forms of their	_	 ability to follow the rules of personal safety in the study of small animals, using knowledge of their anesthesia and fixat follow the rules of personal hygiene, to use the rules of asepsis and antisepsis in the implementation of any obstetric-gynaecological or andrological intervention or research (SC3) / individual practical training the ability to conduct research the appropriate level, apply knowledge in practical situations, use tools, special devices for special manipulations in the performance of professional tasks (GC1, GC2, GC3, GC7, GC9, SC4, SC8, PLO1, PLO2, PLO4) / individual practical classes at to perform obstetric and gynecological measures and operations (SC9 / individual practical training to understand and fixed the features of clinical research in order to form conclusions about the state of the animal and establish a diagnosis (GC2 PC1, PC2, PC8, PC11, PC19, PC19.1, PLO7, PLO8 / individual practical classes ability to think abstractly, analyze, synthesis search, process information from various sources (GC1, PLO5, PLO6, PLO7) / individual practical classes. 					
Scope and forms of	forms of control 3 ECTS credits (90 hours): 12 hours of lectures, 18 hours of laboratory and practical classes; 30 hours of independent study control (2 tests); final control - differentiated credit.						
Teacher requirements timely completion of tasks, activity, teamwork							
Terms of enrollme	ent	"free enrollment"					
COMPLEMENTS THE EDUCATION STANDARD AND EDUCATIONAL PROGRAM							
Competencies	GC1. Ability to abstract thinking, analysis and synthesis.GC2. Ability to apply knowledge in practical situations.GC 3. Knowledge and understanding of the subject area and profession.GC7. Ability to conduct research at the appropriate level.GC 9. Ability to make informed decisions.SC1. Ability to establish the features of the structure and functioning of cells, tissues, organs,		learning	PLO1. To know and correctly use the terminology veterinary medicine. PLO 2. Use information from dome and foreign sources to develop diagnostic, therapeutic business strategies. PLO 4. Collect anamnestic data du registration and examination of animals, make decisi on the choice of effective methods of diagnosis, treatm and prevention of animal diseases. PLO 5. To establish			

synthesis.GC2. Ability to apply knowledge in practical situations.GC 3. Knowledge and understanding of the subject area and profession.GC7. Ability to conduct research at the appropriate level.GC 9. Ability to make informed decisions.SC1. Ability to establish the features of the structure and functioning of cells, tissues, organs, their systems and apparatus of the body of animals of different classes and species - mammals, birds, insects (bees), fish and other vertebrates.SC2. Ability to use tools, special devices, instruments, laboratory equipment and other technical means to perform the necessary manipulations in the performance of professional tasks.SC 3. Ability to comply with the rules of labor protection, asepsis and antisepsis during professional

veterinary medicine.PLO 2. Use information from dome and foreign sources to develop diagnostic, therapeutic business strategies.PLO 4. Collect anamnestic data du registration and examination of animals, make decis on the choice of effective methods of diagnosis, treatmand prevention of animal diseases.PLO 5. To establish relationship between clinical manifestations of the diseased and the results of laboratory tests.PLO 6. Development of the diseased of the prevention, diagnosis and treatment of diseases of varietiologies.PLO 7. To formulate conclusions about effectiveness of selected methods and means of keep feeding and treating animals, prevention of contag

and non-contagious diseases, as well as production

activities.SC 4. Ability to conduct clinical research to formulate conclusions about the condition of animals or to establish a diagnosis.SC 8. Ability to plan, organize and implement measures for the treatment of animals of different classes and species suffering from noncommunicable, infectious and invasive diseases.SC 9. Ability to carry out obstetric-gynaecological and surgical measures and operations.SC 13. Ability to develop strategies for the prevention of diseases of various etiologies.

technological processes at enterprises maintenance, breeding or exploitation of animals different classes and species.

STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINE)						
Chapter 1. Features of the reproductive capacity of small animals						
Lecture 1	Morphofunctional characteristics of the genital organs of females and males of small animals. Features of the manifestation of the sexual function of females of small animals.	Laboratory and practical training 1 (LPT 1)	Peculiarities of the sexual cycle of small animals. Mating of small animals.		Sexual and physiological maturity of m and females of small animals, dependin on the breed. Sexual instinct, sexual reflexes, sexual	
Lecture 2	Artificial insemination of animals. Advantages of the method, prevalence. Embryo transplantation. Fertilization and its features in females of different species of small animals.				intercourse.Natural insemination of small animals.Physiological basis of the use of small animal males.Influence of the type of nervous activity	
		LPT 2	Peculiarities of the sexual cycle of small animals. Mating of small animals.		on the sexual function males. Inhibition of sex reflexes. Male libido and reasons for	
		LPT 3	Obtaining sperm from sires. Evaluation of the quality of ejaculate of small animal males.		decrease. Prolonged estrus and la estrus Suppression of estrus, prolon prevention of estrus and short-term shift estrus. The importance of embryo tran in small animal breeding.	
		LPT 4	Storage and cryopreservation of male small animal ejaculate. Artificial insemination of small animal females.	Independent work	Methods for synchronizing sexual cy and inducing superovulation in fer small animals. Methods of obtaining embryos technology for working with embryos. Embryo transplantation and peculiar of transplantation in small animals.	

Chapter 2. Prenatal, intrapartum and neonatal periods of small animals

Lecture 3	Peculiarities of physiology and pathology of the prenatal period.	LPT 5	Diagnosis of pregnancy in small animals. Pathology of pregnancy.		Pathology of the placenta in infectio diseases of small animals. Anesthe
Lecture 4	Pathologies of small animal pregnancy.	LPT 6	Termination of pregnancy in small animals.	vork	of labor. Infectious diseases of newborn puppies and kittens. Caus
Lecture 5	Features of physiology and pathology of the intrapartum period.	LPT 7	Physiology of labor. Pathology of the genera.	ndent v	and methods of treatment of mastopathies.
Lecture 6	Neonatal period.	LPT 8	Help with pathological labor in small animals	edepu	
		LPT 9	Physiology and pathology after the parturition period. Death of newborn puppies and kittens.	I	

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Methodological support

1. Obstetrics, gynecology and biotechnology of animal reproduction with the basics of andrology: Program of academic discipline for training specialists of higher agricultural educational institutions of 3-4 accreditation level in specialty 7.130501. "Veterinary Medicine" / G.V. Zvereva, S.P. Khomyn, V.A. Yablonsky, V.Y. Lyubetsky, G.G. Haruta - K.: Agrarian Education, - 2001. - 20 p.2. Hryshko DS Lectures on veterinary obstetrics: Study guide / DS Grishko. Kh.: - Flag, 2003. - 400 p.3. Physiology and pathology of reproduction of small animals / Textbook: Sumy regional printing house, publishing house "Kozatsky Val", 2005. - 554 p.4. Practical Veterinary Gynecology: Study guide. Manual for students of the Faculty of Veterinary Medicine, students of the Faculty of Advanced Training, specialists of veterinary medicine / KhZVI. Grishko DS, Zhidkov DN, Gontarenko VS and others -Kh. 1999.5. Diseases of dogs and cats / V.B. Borisevich, V.F. Galat, G.M. Kalinovsky and others; edited by A.Y. Mazurkevich - K.: Urozhay, 1996-432 pp.

1. Complex diagnostics and prevention of prenatal pathology in do Methodical recommendations for students of the Faculty of Veterina Medicine. Kh. - DBTU. - 2021. -47 p.

2. Workbook for independent work of students of the 2nd (2nd semest course of the Faculty of Veterinary Medicine in the course "Diseases small animals." -Kh. -2023.-21 P.

3. Sarbash D.V., Kantemir O.V., Zaika P.O. Methodical recommendation conducting laboratory and practical classes in the general course operative surgery for teachers and students of 2, 3 courses of the Facular of Veterinary Surgery. Kh.: DBTU 2022 - 44 p.

4. Sarbash DV, Tsimerman OO, Zaika P. Methodical instructions independent work for students of the Faculty of Veterinary Medici KhDZVA 2022 - 34p.

5. Sarbash D.V. Kantemir O.V., Zaika P.O., Tsimerman O.O. Methodirecommendations for conducting laboratory and practical classes in general course of surgery for teachers and students of 2.3 courses of Faculty of Veterinary Medicine Kh.

EVALUATION SYSTEM						
	SYSTEM	POINTS	ACTIVITY TO BE EVALUATED			
Final assessment (different credit, exam) 100 points ECTS (standard)		up to 100	40% - final testing 60 % - student's current work during the semester			
Final assessment (non-differential credit)	·		100% - average grade for sections			
		up to 30	30% - answers on test questions			

Rating of section	100 points total	up to 30	30% - the result of mastering the block of independent work
		up to 40	40% - student activity in classes (oral answers)

NORMS OF ACADEMIC ETHICS AND INTEGRITY

All participants in the educational process (including students) must adhere to the code of academic integrity and the requirements set forth in the Regulation "On Academic Integrity of Participants in the Educational Process of SBU": to be disciplined, well-mannered, respect each other's dignity, show goodwill, honesty, and responsibility.