



## SPECIAL RESEARCH METHODS FOR SURGICAL DISEASES OF ANIMALS

Specialty	211 – Veterinary Medicine	Discipline Status	selective BK 19
<b>Educational Program</b>	Veterinary Medicine	Faculty	Veterinary Medicine
<b>Educational Level</b>	Master's Degree	Department	Veterinary Surgery and Reproductology

#### **TEACHER**

## Sliusarenko Dmytro Viktorovych



Higher education – specialty: veterinary medicine
Academic degree – Doctor of Veterinary Sciences
Academic title – Professor
Work experience – 28 years
Author and co-author of more than 120 scientific papers
Organizer and participant of scientific and scientific-practical conferences

Phone: +380662155805 Email slusarenkodmitriy@gmail.com remote support Moodle

The following are involved in teaching the discipline: Candidate of Veterinary Sciences Synyagovska Kateryna Adolfivna, Candidate of Veterinary Sciences Zaika Petro Oleksandrovych

Мета	providing students with theoretical knowledge and practical skills in the technique of special research methods for differential diagnosis of surgical diseases of animals			
Формат	lectures, practical classes, independent work, individual assignments.			
Деталізація результатів навчання і форм їх контролю	<ul> <li>ability to follow the rules of personal safety when studying animals, using knowledge about their fixation, to follow the rules of personal hygiene, to use the rules of asepsis and antiseptics when carrying out any intervention or research (FC3) / individual practical classes.</li> <li>ability to conduct research at the appropriate level, to apply knowledge in practical situations, to use tools, special devices for performing special manipulations when performing professional tasks (ZK2, ZK3, ZK6, FC2, FC4, FC19, FC19.1, PRN7) / individual practical classes.</li> <li>ability to determine the complex of necessary modern clinical, instrumental and laboratory methods and techniques, as well as to understand the purpose and use the necessary professional equipment, tools, reagents, etc., necessary for conducting research on the health and well-being of animals of various species and classes in accordance with the chosen direction and the set goal (SK5)) / individual practical classes.</li> <li>understand and clarify the features of conducting clinical studies in order to form conclusions about the condition of the animal and establish the effectiveness of treatment (ZK2, ZK3, FC1, FC2, FC8, FC11, FC19, FC19.1, PRN7, PRN8)/ individual practical classes.</li> </ul>			
	<ul> <li>the ability to abstract thinking, analysis, synthesis, search, and processing information from various sources</li> <li>(ZK1, PRN7)/ individual practical classes.</li> </ul>			
Обсяг і форми контролю	бсяг і форми контролю  3 ECTS credits (90 hours): 18 hours of lectures, 36 hours of laboratory and practical classes; 36 hours of independent studies, module control (2 modules); final control - differentiated test.			
Вимоги викладача				
Умови зарахування	"free enrollment"			
COMPLEMENTARY EDUCATION STANDARDS AND CURRICULUM				
Competencies 1. 1. ZK	1. Ability to abstract thinking, analysis and Program 1. 1. PRN 7. Collect anamnestic data during registration and			

competencies	1. 1. ZKI. Ability to abstract tilliking, allarysis and
	synthesis, search, process information from various
	sources.
	2. 2. ZK2. Ability to apply knowledge in practical
	situations.
	3. 3. ZK6. Ability to conduct research at the appropriate
	level, make informed decisions, evaluate and ensure the
	quality of the work performed.
	4. 4. FC1. Ability to understand and clarify the features of
	the structure and functioning of cells, tissues, organs,
	their systems and apparatuses of the animal body.
	5. 5. FC2. Ability to use tools, special devices, instruments,

laboratory equipment and other technical means to

- Program learning outcomes
- 1. PRN 7. Collect anamnestic data during registration and examination of animals, find solutions to the choice of effective methods of preventing animal diseases.
- 2. PRN 8. Explain the essence and dynamics of the development of physiological processes that occur in the animal body under the influence of environmental factors and the action of infectious agents.

- perform the necessary manipulations when performing professional tasks.
- 6. 6. FC3. Ability to comply with safety rules, asepsis and antiseptics when performing professional activities.
- 7. 7. FC4. Ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis.
- 8. 8. FC11. Ability to develop prevention strategies.
- 9. 9. FC19. Ability to carry out professional activities within the chosen specialization.
- 10. FC19.1. Ability to plan, organize and implement measures to treat animal diseases.

## STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINE)

# Module 1.

WIOGUIE 1.					
Lecture 1	Basic rules for working with surgical animal patients	Laboratory and practical lesson 1	Basic principles of familiarization with equipment and practice of special research methods – 4 hours		Use of Doppler for assessment of blood flow in soft tissue tumors.  Study of ultrasonic signs of inflammatory processes in the joints of cattle.  Computed tomography (CT) in veterinary surgery: Principle of operation, indications and interpretation of images.  Assessment of the informativeness of CT
Lecture 2	Basic principles of general and special methods of examining animals in surgical pathology	(Practice 1)			
	X-ray examination of animals in surgical pathology	Practice 2	Main surgical diseases for which X-ray examination of animals is performed. Analysis of clinical cases – 4 hours	ork	in the diagnosis of bone and joint injuries in small animals.  Use of contrast agents to improve visualization of pathological processes in
Lecture 3	Ultrasound examination of animals in surgical pathology	Practice 3	Main surgical diseases for which ultrasound examination of animals is performed. Analysis of clinical cases – 4 hours	Independent work	the abdominal organs.
Lecture 4	Endoscopic examination of animals in surgical pathology	Practice 4	Main surgical diseases for which endoscopic and thermographic examination of animals is performed. Analysis of clinical cases – 4 hours		

### Module 2.

Lecture 5	Laboratory methods of animal research in surgical pathology	Practice 5	Main surgical diseases for which laboratory research of animals is carried out. Types of research and analysis of clinical cases – 4 hours	Independent work
Lecture 6	Functional methods of animal research in surgical pathology	Practice 6	Main surgical diseases for which functional research of animals is carried out. Analysis of clinical cases – 4 hours	lndep
Lecture 7	Special research methods in the diagnosis of surgical diseases of individual body systems of different animal species in surgical pathology	Practice 7	Special methods of research of animals used in veterinary anesthesiology – 4 hours	
Lecture 8	Generalization of information for the purpose of making a diagnosis in animals in surgical pathology	Practice 8	Interpretation of results of special research methods in surgical patients – 4 hours	
		Practice 9	Differential diagnostics of surgical diseases of animals based on data of special research methods – 4 hours	

The use of endoscopy in digestive system surgery.
Changes in hematological parameters in inflammatory processes in animals.
Diagnostic value of bone marrow punctate analysis.

Blood, urine analysis, biopsy, their significance in diagnosis.
Use of electrocardiography (ECG) in veterinary surgery: Indications, methodology and interpretation of results.

Methods for assessing the general condition of the animal before surgical intervention: Comprehensive examination to minimize risks during surgery.

#### BASIC LITERATURE AND METHODOLOGICAL MATERIALS

забезпечення

Методичне

- 1. Сучасні методи і засоби місцевої анестезії тварин: наук.-метод. посібник / Д.В. Слюсаренко, Д.В. Сарбаш, М.Г. Ільніцький, В.М. Власенко, С.В. Рубленко. Х.: Стиль-Іздат, 2017. 140 с.
- 2. Власенко В.М. Оперативна хірургія, анестезіологія і топографічна анатомія. /В.М.Власенко, Л.А. Тихонюк, М.В. Рубленко. Загальна частина. Біла Церква. 2006. –531 с.
- 3. Власенко. В.М. Словник термінів ветеринарної хірургії./ Власенко В.М., Тихонюк Л.А. —Біла Церква: 2008. 357с.
- 4. Campoy L. Small Animal Regional Anaesthesia and Analgesia / L. Campoy, M.R. Read. Wiley-Blackwell, 2013. 288 p.
- Burkitt Creedon J.M. Advanced monitoring and procedures for small animal emergency and critical care / Jamie M. Burkitt Creedon, Harold Davis. – Wiley-Blackwell, 2012. – 888 p.

- 1. Диференціальна епідуральна блокада у великої рогатої худоби та собак: метод. рекомендації / М.Г. Ільніцький, С.В. Рубленко, Д.В. Слюсаренко, Д.В. Сарбаш. X., 2015. 18 с
- 2. Епідуральна анестезія у собак за виконання оперативних втручань в ділянці живота : метод. рекомендації / Д.В. Слюсаренко, М.Г. Ільніцький, Д.В. Сарбаш. Х., 2017. 11 с.
- 3. Епідуральна анестезія за виконання хірургічних маніпуляцій в ділянці тазових кінцівок у великої рогатої худоби : методичні рекомендації / Д.В. Слюсаренко, М.Г. Ільніцький, Д.В. Сарбаш. Х., 2017. 12 с.
- 4. Слюсаренко Д.В. Спірографія у собак за виконання хірургічних маніпуляцій / Д.В. Слюсаренко, Д.В. Сарбаш // Наук. вісник вет. медицини: зб. наук. праць. Біла Церква, 2012. Вип. 10(99). С. 109—112.

GRADING SYSTEM					
	SYSTEM	POINTS	ACTIVITY THAT IS ASSESSED		
Summative Assessment	100 ECTS points (standard)	up to 50	50% від усередненої оцінки за модулі		
		up to 50	підсумкове тестування		
	100-point total	up to 50	відповіді на тестові питання		
<b>Modular Assessment</b>		up to 20	усні відповіді на лабораторно-практичних заняттях		
		up to 30	результат засвоєння блоку самостійної роботи		
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 stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of the State Biotechnological University": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.