SYLLABUS OF THE EDUCATIONAL COMPONENT



INFECTIOUS DISEASES OF ANIMALS IN TROPICAL AND SUBTROPICAL REGIONS

Specialty	Veterinary medicine	The obligation of discipline	Selective
Field of knowledge	Veterinary medicine	Faculty	Veterinary medicine
Level of higher education	Master's degree	Department	Epizootology and microbiology

TEACHER

Severyn Raisa Vasilivna



Higher education - specialty: veterinary medicine

Academic degree – Candidate of Veterinary Sciences 16. 00. 03 – Veterinary Microbiology and Virology (2012)

Academic title – Associate Professor of the Department of Epizootology and Microbiology

Work experience – 43 years

Indicators of professional activity on the course topic:

- Author and co-author of more than 95 scientific works, including scientific articles and abstracts of reports, 5 declarative patents for inventions, 5 scientific, practical and methodological recommendations, 2 scientific manuals, 2 Technical Specifications of Ukraine.
- Author and co-author of more than 55 educational and methodological recommendations and instructions for laboratory and practical classes in the courses: "Episootology and Infectious Diseases", "Species Episootology", "Special Episootology", "Laboratory Diagnostics of Animal Diseases".

Certificate of advanced training at the National Scientific Center "Institute of Experimental and Clinical Veterinary Medicine", Kharkiv, International sub-qualification, Lublin (Republic of Poland, 2023) in the specialty "Veterinary Medicine", specialization "Veterinary Microbiology, Epidemiology, Infectious Diseases and Immunology" (2023).

Participant in scientific and methodological conferences and symposia, including international ones.

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	GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT					
Purpose	 formation of knowledge and skills to recognize signs of infectious diseases that are not even traditional for the regions of Uk to quickly navigate in the selection and application of the necessary regulated methods of confirming or refuting the diagnosis, including the final, laboratory one; acquiring skills in forecasting, recognizing threats, identifying causes, differential diagnostics and developing rational measures for the prevention, response and elimination of both transboundary, especially dangerous and poorly studied epizootically significant animal diseases. 					
Format	lectures, practical classes, independent work, inc	ndividual tasks, laboratory work, teamwork				
Detailing of learning results and forms of their control	 ability to assess the health status of animals suffering from infectious diseases / individual practical tasks ability to predict the course of infectious diseases and the effectiveness of control measures / individual practical exercises ability to assess the quality of treatment and preventive measures for infectious diseases / individual practical tasks ability to make informed decisions, carry out educational activities among industry workers and the population / individual tasks on the analysis of the regulatory framework 					
Scope and forms of control 3 ECTS credits (90 hours): 12 hours of lectures, 30 hours of labora (2 chapters); final control – differentiated assessment.		tures, 30 hours of laboratory classes, 48 hours of independent work; current contressment.	rol			
Requirements of the teacher	timely completion of laboratory and practical tas					
Enrollment conditions	according to the curriculum					
COMPI	COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM					
GC1. Ability to abstract thinking, analysis and synthesis GC 2. Ability to apply knowledge in practical situations GC 3. Knowledge and understanding of the subject field and profession GC 9. Ability to make informed decisions GC 10. Ability to communicate with representatives of other professional groups of various levels (with experts of other fields of knowledge/types of economic activity) SC 2. Ability to use tools, special devices, instruments, laboratory		PLO 1. Know and competently use the terminology of veterinary medicine PLO 2. Use information from domestic and foreign sources to develop diagnostic therapeutic and business strategies PLO 4. Collect anamnestic data during registration and examination of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal diseases. PLO 5. Establish a connection between the clinical manifestations of the disease at the results of laboratory tests.				

Competencies

equipment and other technical means to carry out the necessary manipulations during professional activities. SC 3. Ability to comply with the rules of labor protection, asepsis and antiseptics during professional activities. SC 4. Ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis. SC 6. Ability to select, pack, fix and send samples of biological material for laboratory research SC 7. Ability to organize and conduct laboratory and special diagnostic studies and analyze their results SC 8. Ability to plan, organize and implement measures to treat animals of different classes and species, sick with non-communicable, infectious and invasive diseases SC 10. Ability to develop strategies for safe, sanitary-related animal husbandry. SC 12. Ability to develop and implement measures aimed at protecting the population from diseases common to animals and humans. SC 13. Ability to develop strategies for the prevention of diseases of various etiologies. SC 19. Ability to carry out educational activities among industry workers and the population.

Program learning outcomes

P LO 6. Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies. PLO 7. Formulate conclusions on the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of infectious and non-infectious diseases, as well as production and technological processes at enterprises for keeping, breeding or operating animals of various classes and species. PLO 8. Monitor the causes of the spread of diseases of various etiologies and biological pollution of the environment with livestock waste, as well as materials and means for veterinary purposes. PLO 9. Develop measures aimed at protecting the population from diseases common to animals and humans. PLO 15. Know the rules for storing various pharmaceuticals and biological products, the methods of their enteral or parenteral administration, understand the mechanism of their action, interaction and complex effect on the animal body. PLO 17. Know the rules and requirements of biosafety, bioethics and animal welfare. PLO 18. Carry out accounting reporting during professional activities. PLO 19. Carry out educational activities among industry workers and the population.

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. Arboviruses and viral tropical diseases of animals

Epizootic features and course, comprehensive diagnostics and anti-epizootic measures of viral and arbovirus diseases of animals: Nairobi disease, Rift Valley fever, hemorrhagic fevers (West Nile, Dengue, Crimean-Congo), African horse sickness, Equine viral arteritis, Bluetongue/Bluetongue, Rinderpest, Lumpy skin disease and Sheep and Goat pox

Lecture 1 Lecture 2	Arbovirus infections of animals Features of the course of viral diseases of horses (Acute Cystitis, Viral Arteritis) and cattle (CRC, Bluetongue, Lump-Pox, Sheep and	LC 1	Diagnosis, prevention and control measures for Nairobi Disease of sheep and goats Diagnosis, prevention and control measures for Rift Valley Fever			
Lecture 3	Goat Pox) in tropical conditions Peculiarities of the course of quarantine and especially dangerous viral animal diseases (foot-and-mouth disease, rabies, highly contagious influenza) in tropical countries	LC 3	Diagnosis, prevention and control measures against hemorrhagic arbovirus fevers (West Nile fever, Dengue fever, Crimean-Congo hemorrhagic fever) Diagnosis, prevention and control measures against African horse	Independent work	Chapter 1. Arbovirus and viral tropical diseases of animals. 1. Differential diagnosis of hemorrhagic arbovirus fevers of animals, their epidemiological significance and threats.	
	LC 5	sickness Diagnosis, prevention and control measures against Bluetongue (Bluetongue) in cattle.	Ind	2. Differential diagnosis of poorly studied and epizootically significant viral diseases of animals in tropical		
		LC 6	Diagnosis, prevention and control measures against quarantine diseases of cattle caused by capripoxviruses (lumpy dermatitis, sheep and goat pox)		countries.	
		LC 7	Diagnosis, prevention and control measures for equine viral arteritis.			
Chapter 2. Bacterial and fungal tropical diseases of animals						

Epizootic features and course, comprehensive diagnostics and anti-epizootic measures of bacterial, fungal, rickettsial and mycoplasmal animals: "Forgotten tropical diseases (NID)" - Tuberculosis, Foot and Mouth Disease, Melioidosis, Brucellosis; Yersiniosis/Camel Plague, Rickettsioses: Q-fever, Tularemia; Contagious agalactia of sheep and goats, Cattle PEP, Botulism and Tetanus, Epizootic lymphangitis of horses.

Lecture 4	Features of the course of the "Forgotten Tropical Diseases (NID)" tuberculosis, gangrene, melioidosis, brucellosis	LC 8	Diagnosis, prevention and control measures against highly contagious avian influenza and pandemic triple influenza	ent work	Chapter 2. Bacterial and fungal tropical diseases of animals.
Lecture 5	Yersiniosis (camel plague) and rickettsiosis (Q fever, tularemia)	LC 9	Diagnosis, prevention and control measures against camel plague	epuedepu	1. Differential diagnosis of rickettsioses and yersinioses of animals, their epidemiological significance and
Lecture 6	Mycoses (epizootic lymphangitis of	LC 10	Diagnosis, prevention and control measures against animal rickettsioses (Q fever,	II	threats. 2. Differential diagnosis of

horses) and mycoplasmosis (contagious agalactia of sheep and goats, CPP of cattle) of animals	LC 11 LC 12	tularemia) in animals. Diagnosis, prevention and control measures for Lyme disease Diagnosis, prevention and control measures		mycoplasmosis. Epizootic significance of contagious pleuropneumonia of cattle, features of prevention. 3. Features of the course, diagnosis and	
	LC 13 LC 14	for contagious agalactia of sheep and goats Diagnosis, prevention and control measures against botulism and tetanus in animals Diagnosis, prevention and control measures against equine epizootic lymphangitis		differential diagnosis of intestinal bacterioses (salmonellosis, colibacteriosis) and mycotoxicoses in tropical climates	
	LC 15	Features of diagnostics, prevention and control measures against foot-and-mouth disease, melioidosis and tuberculosis of animals.			
BASIC LITERATURE AND METHODOLOGICAL MATERIALS					

Methodological support

- 1. Karysheva A. F. Special epizootology: textbook. Kyiv: Higher Education, 2002. 703 p.
- Infectious diseases of sheep and goats: a textbook / O. A. Tkachenko et al. Zhytomyr: Polissya, 2012. 372 p.
- Zlonkevych Ya., Oleksiuk I., Kravtsiv Yu. Infectious diseases of horses: a textbook. Lviv, 2006. 204 p.
- 4. Sapronose infectious diseases of animals / L.E. Kornienko, V.V.
- 5. Nedosekov, V.O. Busol et al.: monograph. – Ed. L.E. Kornienko.
- 6. V.O. Busola. – Bila Tserkva: Bila Tserkva. State Agricultural University, 2010. -306 p.

- -http:// www.consumer.gov.ua State Service for Food and Consumer Protection of Ukraine.
- -http://www.who.int/en/ World Health Organization (WHO) website.
- -http://www.oie.int/ website of the World Organization for Animal Health (International Office of Epizootics - OIE).
- -http://vetlabresearch.gov.ua/ State Research Institute for Laboratory Diagnostics and Veterinary Sanitary Expertise;
- http://www.biocontrol.com.ua/ State Scientific and Control Institute of Biotechnology and Microorganism Strains.
- http://ivm.kiev.ua/golovna.html Institute of Veterinary Medicine of the National Agrarian Academy of Sciences of Ukraine:
- http://www.iso.org. International Organization for Standardization(ISO);
- -http://www.nbuv.gov.ua Official website of the V.I. Vernadsky National Library of Ukraine.
- http://vet.in.ua/ Veterinary information resource of Ukraine.

EVALUATION SYSTEM

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SYSTEM			ACTIVITY THAT IS ASSESSED			
Final assessment (different	100 ECTS points (standard)	up to 100	40 % - Final testing			
credit, exam)Final evaluation	100 EC18 points (standard)		60 % - student's current work during the semester			
Final assessment (non- differential credit)	100 points ECTS (standard)	up to 100	100 % - average grade for sections			
	100 points total	up to 30	30 % - answers to test questions			
Rating of section		up to 30	30 % - the result of mastering the block of independent work			
S		up to 40	40 % - student activity in class (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 stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of SBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.