



Specialty	Veterinary medicine -211	the obligation of discipline	Mandatory component
Field of knowledge	Veterinary medicine	Faculty	Veterinary Medicine
Level of higher education	Master's degree	Department	Epizootology and Microbiology

TEACHER

Savenko Mykola Mykolayovych



Higher education – specialty: veterinary medicine

Academic degree – Candidate of Veterinary Sciences 16. 00. 02 – pathology, morphology, animal oncology Academic title – Associate Professor of the Department of Epidemiology and Microbiology

Work experience – 43 years

Indicators of professional activity on the course topic:

Co-author of more than 45 methodological instructions for laboratory and practical work on the course "Organization of Veterinary Affairs", "Episootology and Infectious Diseases";

Scientific internship at the National Scientific Center "Institute of Experimental and Clinical Veterinary Medicine", Kharkiv; International sub-qualification, Lublin (Republic of Poland 2023), "Use of Training and Production Units" within the framework of EU/Tempus held at PTC+ Barneveld, Notherland; Free University of Berlin.

Co-author of 6 thematic publications on the organization of veterinary affairs and special epizootology for students of the Faculty of Veterinary Medicine in specialty 211 "Veterinary Medicine";

Participant in scientific and methodological conferences.

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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT						
Aim	Providing applicants with thorough knowledge, skills and abilities in organizing a scientifically based system of diagnostic and anti- epizootic measures for infectious diseases common to many animal species, and modern methods of veterinary and sanitary treatments.					
Format	lectures, practical classes, independent work, individual tasks, laboratory work, teamwork					
Scope and forms of control	13 ECTS credits (390 hours): 56 hours of lectures, 104 hours of laboratory and practical classes, 170 hours of independent work; coursework - 30 hours; teaching practice - 30 hours; module control (8 modules); final control - tests, exams.					
Teacher requirements	timely completion of laboratory and practical tasks, activity, teamwork					
Enrollment conditions	according to the curriculum					
COMPLIANCE WIEW EDUCATIONAL CHANDADDS AND CURDICULUM						

COMPLIANCE WITH EDUCATIONAL STANDARDS AND CURRICULUM

Competencies	GC1 Ability to think abstractly, analyze and synthesize GC2 Ability to apply knowledge in practical situations
	GC7 Ability to conduct research at the appropriate level
	GC8 Ability to learn and master modern knowledge
	GC9 Ability to make informed decisions
	GC10 Ability to communicate with representatives of
	other professional groups of different levels (with
	experts in other fields of knowledge/types of economic
	activity)
	GC11 Ability to evaluate and ensure the quality of
	work performed
	SC6 Ability to select, pack, fix and send samples of
	biological material for laboratory research
	SC7 Ability to organize and conduct laboratory and
	special diagnostic studies and analyze their results
	SC8 Ability to plan, organize and implement measures
	to treat animals of different classes and species, sick
	with non-communicable, infectious and invasive
	diseases
	SC13 Ability to develop strategies for the prevention of
	diseases of various etiologies.

Program learning outcomes

PLO 1 Know and correctly use the terminology of veterinary medicine. PLO 2 Use information from domestic and foreign sources to develop

diagnostic, therapeutic and business strategies.

PLO 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 9 Develop measures aimed at protecting the population from diseases common to animals and humans.

PLO 19 Carry out educational activities among industry workers and the population.

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1.

Epizootic process and system of anti-epizootic measures.

Study of types of infections depending on the ways of penetration of the pathogen into the body. Studies the patterns of development of the epizootic process and the stages of epizootics, elements of the epizootic process, laws and categories of epizootology. System of anti-epizootic measures, its general features and meaning, the concept of general and specific prevention of infectious diseases, the complexity of carrying out health measures and the choice of the leading chain, types and objects of disinfection.

Lecture 3	The concept of the epizootic process General principles of prevention and elimination of infectious diseases	Laboratory and practical lesson 1 LPL 2 LPL 3 LPL 4 LPL 5 LPL 6	Safety precautions when working with infectious animals. Rules for the selection and shipment of material for laboratory research. Biological drugs in veterinary medicine. Veterinary disinfection. Means for disinfection of environmental objects. Disinfection quality control methods. Features of diagnostics of infectious diseases of	Independent work	 Make a presentation on the topic "Infection and the infectious process. Natural foci of infectious diseases". Make a presentation on the topic "Veterinary disinfection in livestock complexes". Make a presentation on the topic "Veterinary disinfection in poultry farms".
			animals.		
		al features, patho	Chapter 2. ial diseases common to different animal species, clinical and pathological signs, diagnostic ecrobacteriosis, pasteurellosis, leptospirosis, derm	s, prevent	
Lecture 1	Anthrax	LPL 1	Anthrax diagnostics. Measures for prevention and control of the disease.		
Lecture 2	Tuberculosis	LPL 3	Diagnosis of animal tuberculosis. Measures for prevention and control of the disease.		
Lecture 3-4	Brucellosis Leptospirosis	LPL 4 LPL 5	Diagnosis and differential diagnosis of leptospirosis in animals Chlamydia diagnostics and organization of preventive and health-improving measures	Independent work	 Develop a plan for health measures in a farm that is unfavorable for sheep anthrax. Develop a plan for health measures in
		LPL 6	Diagnosis of necrobacteriosis and measures to prevent and combat the disease	lepued.	a farm that is unfavorable for cattle leptospirosis.
		LPL 7	Diagnosis of pasteurellosis and measures to prevent and control the disease	Inde	3. Develop a plan for health measures in a farm that is unfavorable for cattle
		LPL 8	Diagnosis of listeriosis and organization of preventive and health measures		tuberculosis.
		LPL 9	Diagnosis of tetanus and botulism, measures for prevention and control of diseases		
Chapter 3. Viral diseases common to different animal species Studies the etiology, epizootological features, pathogenesis, clinical and pathological signs, diagnostics, prevention and measures to combat infectious diseases: rabies, Aujeszky's disease, smallpox, foot-and-mouth disease, leukemia					
Lecture 1	Rabies	LPL 1	Rabies diagnostics, prevention and control measures	ndep s nden t	1. Develop a plan for the elimination of rabies for a disadvantaged territorial
		LPL 2	Diagnosis of Aujeszky's disease, measures to	E G	community in rural areas

			prevent and combat the disease		2. Develop a plan for the prevention of
Lecture 2	Aujeszky's disease	LPL 3	Diagnosis of bovine leukemia. Measures for		rabies in wild carnivores for forestry
			prevention and control of the disease		3. Develop a plan for preventive
		LPL 4	Diagnosis of animal pox. Measures for		measures to prevent foot-and-mouth
			prevention and control of the disease		disease
Lecture 3	Leukosis	LPL 5	Diagnosis of foot-and-mouth disease. Measures		4. Develop a plan for health measures in
			for prevention and control of the disease		a farm disadvantaged in terms of bovine
					leukemia
			Chapter 4.		
			Infectious diseases of pigs		
Etiol	ogy, epizootological features		s, pathological changes, diagnostics, differential diagno	ostics, in	munity, means of combating infectious
		dis	eases of pigs: CSF, ASF, erysipelas, Teschen disease.		
Lecture 1	Classical swine fever	LPL 1	Diagnosis of CSE in pigs Massures for		
Lecture 1	Classical swille level	LFL	Diagnosis of CSF in pigs. Measures for prevention and control of the disease		1. To draw up a scheme of differential
Lecture 2	African swine fever	LPL2	Diagnosis of swine erysipelas. Measures for		laboratory diagnostics of infectious
Lecture 2	7 Hillean Swille Tevel		prevention and control of the disease		diseases with vesicular syndrome in pigs
			•		2. To draw up a scheme of differential
Lecture 3 Teschen disease	LPL 3			laboratory diagnostics of infectious	
			hemorrhagic syndrome. Measures for prevention		diseases with respiratory syndrome in
			and control of diseases.	\preceq	pigs
Lecture 4	Porcine reproductive and respiratory syndrome	LPL 4	Diagnosis of viral transmissible gastroenteritis of	vor	3. To draw up a scheme of differential
		spiratory syndrome	pigs. Measures for prevention and control of the	nt v	laboratory diagnostics of infectious
		IDI 5	disease	CaIndependent work	diseases with diarrheal syndrome in pigs
		LPL 5	Diagnosis of swine dysentery. Measures for prevention and control of the disease	per	4. To draw up a scheme of differential
		LPL 6	Diagnosis of swine epidemic diarrhea. Measures	ıde	laboratory diagnostics of infectious diseases for pigs accompanied by
		LILU	for prevention and control of the disease	`alı	abortions
		LPL 7	Differential diagnosis of swine hemophilia.	\cup	5. To draw up a scheme of differential
			Disease prevention and control measures		laboratory diagnostics of infectious
		LPL 8	Differential diagnosis of diseases of pigs with		diseases with hemorrhagic syndrome in
			vesicular syndrome. Measures for prevention and		pigs
			control of diseases		6. Make a presentation on the topic "Plan of
		LPL 9	Diagnosis of CVID. Measures for prevention and		health measures in a farm affected by
			control of the disease		atrophic rhinitis in pigs"
			Chapter 5.		
			•	ola	
			Infectious diseases of young farm anim		
	C		eatures, pathogenesis, clinical and pathological signs, d	0	/ =
	infectious diseases of y	oung tarm an	imals such as colibacillosis, salmonellosis, streptococco and rotavirus infections of calves.	osis, com	enterotoxemia, anaerodic enterotoxemia,
			and rotavirus infections of calves.		

Lecture 1	Salmonellosis of young farm animals	LPL 1	Diagnosis, control and prevention measures for salmonellosis in young farm animals		1. Develop a plan of health measures for
	Tarin anniais	LPL 2	Diagnosis, control and prevention measures for colibacillosis in young farm animals	vork	a farm that is unfavorable for bacterial gastroenteritis in pig farming
Lecture 2	Colibacillosis of young farm animals	LPL 3	Diagnosis, control and prevention measures for streptococcus in young farm animals	ident v	2. Develop a plan of health measures for a farm that is unfavorable for infectious
Lecture 3	Viral enteritis of calves and piglets	LPL 4-5	Diagnostics, measures to combat and prevent colienterotoxemia in young farm animals Diagnostics, control and prevention measures for anaerobic enterotoxemia in young farm animals	Independent work	respiratory diseases in calves 3. Develop a plan of health measures for a farm that is unfavorable for bacterial diseases in lambs
			Chapter 6.		
			Infectious diseases of cattle.		
			res, pathogenesis, clinical and pathological signs, emkar, malignant edema, IRT, parainfluenza, vir	_	, -
			paratuberculosis.		r,,
			rres, pathogenesis, clinical and pathological signs,		
	infectious diseases of sn	nall cattle such as	bradsot, infectious enterotoxemia, bluetongue, in	fectious a	galactia, ecthyma contagion, hoof rot,
T	Emphasematana ankunala	Y DY 1	visna-maedi. Diagnosis, control and prevention measures for ruminant		
Lecture 1	Emphysematous carbuncle	LPL 1	clostridial diseases		
Lecture 2	Infectious rhinotracheitis- pustular vulvovaginitis of cattle	LPL 2	Diagnostics, control and prevention measures for infectious bovine rhinotracheitis, parainfluenza and bovine viral diarrhea		
Lecture 3	Campylobacteriosis Prion infections in cattle	LPL 3	Diagnosis, control and prevention measures for infectious agalactia of sheep and goats and contagious ecthyma	dependent work	 Develop a plan of preventive measures for transboundary infections of cattle Develop a plan of preventive measures for the prevention of quarantine infections of small cattle Develop a scheme of differential laboratory
		LPL 4	Diagnosis, control and prevention measures for lumpy dermatitis and hoof rot	nden	diagnostics of infectious diseases with vesicular syndrome in cattle 4. Develop a scheme of differential diagnostics of
		LPL 5	Diagnostics, measures to combat and prevent visna, maeda	ebe	infectious diseases,
		LPL 6	Diagnosis, control and prevention measures for paratuberculosis	Ind	accompanied by abortions in sheep
		LPL 7	Diagnosis, control and prevention measures for malignant catarrhal fever		5. Develop a plan of health measures for pneumoenteritis in cattle for
		LPL 8	Diagnosis, control and prevention measures for contagious pleuropneumonia of cattle		a disadvantaged farm
		LPL 9	Diagnostics, control and prevention measures for rinderpest		
		LPL10	Diagnosis, control and prevention measures for bluetongue		
			Chapter 7.		
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Infectious diseases of horses

Study of etiology, epizootological features, pathogenesis, clinical and pathological signs, methods of laboratory diagnostics, prevention and measures to combat infectious diseases of horses such as glanders, mycosis, epizootic lymphangitis, infectious anemia, rhinopneumonia, equine influenza, infectious encephalomyelitis.

Lecture 1	Glanders	LPL 1-2	Diagnosis, control and prevention measures for glanders Diagnosis, control and prevention measures for strangles (also called equine distemper)		
Lecture 2	Equine infectious anemia	LPL 3-4	Diagnosis, control and prevention measures for epizootic lymphangitis Diagnosis, control and prevention measures for equine infectious anemia	dent work	1. Develop a plan of health measures for a horse farm that is unfavorable for respiratory diseases in horses.
		LPL 5-6	Diagnosis, control and prevention measures for rhinopneumonia and equine influenza Diagnosis, control and prevention measures for equine infectious encephalomyelitis	Indepen	2. Develop a plan of health measures for an equestrian school that is unfavorable for bacterial diseases in foals
		LPL 7	Diagnosis, control and prevention measures for infectious metritis in mares		

Chapter 8.

Infectious diseases of poultry

Study of etiology, epizootological features, pathogenesis, clinical and pathological signs, methods of laboratory diagnostics, prevention and measures to combat infectious quarantine, respiratory, immunodeficiency diseases of poultry

		1		The Property	J
Lecture 1	Newcastle disease	LPL 1	Diagnosis, control and prevention measures for avian influenza		
Lecture 2	Infectious bronchitis in chickens	LPL 2	Diagnosis, control and prevention measures for infectious laryngotracheitis in poultry		1. Develop a plan of preventive measures for
Lecture 3-4	Gumboro's disease Marek's disease	LPL 3	Diagnosis, control and prevention measures for respiratory mycoplasmosis and pasteurellosis		transboundary poultry infections 2. Develop a plan of preventive measures for preventing quarantine poultry infections 3. Develop a scheme for differential laboratory diagnostics of infectious respiratory diseases of
Lecture 5	Infectious avian encephalomyelitis	LPL 4	Diagnosis, control and prevention measures for avian reovirus infection and chicken infectious anemia		poultry 4. Develop a scheme for differential diagnostics
		LPL 5	Diagnosis, control and prevention measures for Egg drop syndrome '76		of infectious diseases accompanied by immunodeficiencies in poultry
		LPL 6	Diagnostics, control and prevention measures for viral enteritis of goslings and viral hepatitis of ducklings		5. Develop a plan of health measures for an unsuccessful poultry enterprise regarding
		LPL 7	Diagnosis, control and prevention measures for poultry salmonellosis and colibacillosis		salmonellosis
		LPL 8	Diagnosis, control and prevention measures for aspergillosis and ornithosis		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

- 1. Karysheva A. F. Special epizootology: textbook. Kyiv: Higher Education, 2002. 703 p.
- 2. General epizootology: textbook / B. M. Yarchuk et al.; ed. B. M. Yarchuk, L. E. Kornienko. Bila Tserkva, 2002. 656 p.
- 3. V. Nedosekov, M. Sytyuk, L. Kornienko, A. Gontar, N. Sorokina, R. Severyn. Viral diseases of pigs: electronic manual. Kyiv: Scientific and Methodological Center of the VFPO, 2020.
- https://vukladach.pp.ua/MyWeb/manual/wetmed/virysni_xvor_svuney/Golovna/Golovna.htm
- 4. V. Nedosekov, M. Sytyuk, L. Kornienko, A. Gontar, N. Sorokina, R. Severyn. Bacterial diseases of pigs: electronic manual. Kyiv: Scientific and Methodological Center of the VFPO, 2020.
- $\underline{https://vukladach.pp.ua/MyWeb/manual/wetmed/bakter\ xvor\ svuney/Bakteriihvor\ obusvuney/golovna/Golovna.htm}$
- 5. Infectious diseases of sheep and goats: a textbook / O. A. Tkachenko et al. Zhytomyr: Polissya, 2012. 372 p.
- 6. Factor diseases of agricultural animals monograph / V. P. Lytvyn et al.; ed. V. P. Lytvyn, L. E. Kornienko. Bila Tserkva, 2002. 368 p.
- 7. Legislation of Ukraine on veterinary medicine / ed. P. P. Dostoevsky and V. I. Khomenko. Kyiv: Urozhay, 1999. 592 p.
- 8. Nedosekov V., Gontar A., Severyn R., Sorokina N., Electronic manual Anaerobic infections of cattle. Scientific and methodological center of the VFPO, Kyiv, 2022. 98 p.
- 9. Infectious diseases of animals with vesicular syndrome: Textbook / L.E. Kornienko, V.O. Busol, V.V. Nedosekov et al. Ed. L.E. Kornienko. Bila Tserkva: Bila Tserkva. State Agrarian University, 2011. 272 p.

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Methodological

- 10. Sapronose infectious diseases of animals / L.E. Kornienko, V.V. Nedosekov, V.O. Busol et al.: monograph. Ed. L.E. Kornienko, V.O. Busola. Bila Tserkva: Bila Tserkva. State Agricultural University, 2010. -306 p.
- 11. Chronic infectious diseases of animals / L.E. Kornienko, V.O. Busola, V.V. Nedosekov and others; Edited by V.O. Busola, L.E. Kornienko. Bila Tserkva, 2009. 291 p.
- 12. Problems of infectious diseases of animals: Monograph / edited by V.A. Sinitsyn. Nizhyn: Publisher PP Lysenko MM, 2015 544 p.
- 13. Transboundary diseases of animals with the basics of stamping-out: Textbook / V.V. Nedosekov, V.V. Melnyk, V.V. Makarov. Kherson: Grin DS, 2015. 336 p.
- 14. Infectious diseases of poultry / L.E. Kornienko, L.I. Nalyvaiko, V.V. Nedosekov and others; Edited by L.E. Kornienko. Kherson: Grin DS., 2012. 528 p.
- 15. Pathomorphology of infectious diseases of poultry: atlas / M.V. Skrypka, I.I. Panikar, M.M. Broshkov, L.O. Tarasenko, Odesa, 2019, 76 p.
- 16. Nedosekov V., Gontar A., Sorokina N., Melnyk V., Galatyuk O. Infectious diseases of horses: a textbook. Kyiv: Scientific and Methodological Center of the VFPO, 2022. 141 p.
- https://drive.google.com/file/d/1Roh5rxzSMyM37miuUoVCbE99-JrQFpMq/view (Ukraine

- 1. Golovko V. O., Severyn R. V., Ivanchenko I. M., Gontar A. M. Epizootic process: methodological guidelines for conducting LPZ in general epizootology for students of the 3rd-4th years of the Faculty of Veterinary Medicine. Kharkiv: KhDZVA, 2021. 28 p.
- 2. Golovko V. O., Severyn R. V., Ivanchenko I. M., Gontar A. M. General principles of prevention and elimination of infectious diseases: methodological guidelines for conducting LPZ in general epizootology for students of the 3rd-4th years of the Faculty of Veterinary Medicine. Kharkiv: KhDZVA, 2022. 24 p.
- 3. Golovko V. O., Severyn R. V., Ivanchenko I. M., Gontar A. M. Diagnostics, differential diagnostics, organization of measures to prevent and combat bacterial diseases of animals: methodological guidelines for conducting laboratory classes in special epizootology for students of the 3rd-4th years of the Faculty of Veterinary Medicine. Kharkiv: KhDZVA, 2021. 35 p.
- 4. Severyn R. V., Ivanchenko I. M., Gontar A. M. Diagnostics, differential diagnostics, organization of measures to prevent and combat viral diseases of animals: methodological guidelines for conducting laboratory and practical classes in special epizootology for students of the 3rd-4th years of the Faculty of Veterinary Medicine. Kharkiv: KhDZVA, 2022. 37 p.
- 5. Severyn R. V., Gontar A. M. Infectious diseases of pigs: methodological guidelines for conducting laboratory classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: KhDZVA, 2021. 44 p.
- 6. Golovko V. O., Severyn R. V., Gontar A. M., Ivanchenko I. M. Infectious diseases of young farm animals: methodological instructions for conducting laboratory and practical classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: DBTU, 2023. 36 p.
- 7. Severyn R. V., Gontar A. M., Ivanchenko I. M. Anaerobic infections of cattle: methodological instructions for conducting laboratory and practical classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: DBTU, 2023. 46 p.
- 8. Golovko V. O., Severyn R. V., Gontar A. M., Ivanchenko I. M. Pneumoenteritis of calves: diagnostics, treatment, prevention, control measures: methodological instructions for conducting laboratory and practical classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: DBTU, 2022. 56 p.
- 9. Methodological instructions for students of the Faculty of Veterinary Medicine for performing an individual educational and research task in the academic discipline "Epizootology and infectious diseases". Anaerobic infections of ruminants. Specialty 211- Veterinary medicine. Golovko V.O., Severyn R.V., Gontar A.M. State Biotechnological University. Department of Epizootology and Microbiology. Kh.: RVV DBTU, 2023. 58 p.
- 10. Golovko V. O., Severyn R.V., Gontar A.M., Ivanchenko I.M. Viral diseases of poultry: methodological instructions for conducting laboratory and practical classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: DBTU, 2023. 36 p.
- 11. Severyn R. V., Gontar A. M., Ivanchenko I. M. Bacterial diseases of waterfowl: methodological instructions for conducting laboratory and practical classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: DBTU, 2023. 46 p.
- 12. Golovko V. O., Severyn R. V., Gontar A. M., Ivanchenko I. M. Viral diseases of young waterfowl: methodological instructions for conducting laboratory and practical classes in special epizootology for students of the 3rd-5th years of the Faculty of Veterinary Medicine. Kharkiv: DBTU, 2022. 56 p.

GRADING SYSTEM

	SYSTEM	POINTS	ACTIVITY THAT IS ASSESSED
Summative assessment (differentiated test, exam)	100 ECTS points (standard) 100-point total	to 100	40 % - final testing 60 % - student's current work during the semester
Section evaluation		to 30	answers to test questions
		to 30	result of mastering the independent work block
NORMS OF ACADEMIC ETHICS AND INTEGRITY		to 40	student activity in classes (oral answers)

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 DBTU'': to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.