



SYLLABUS OF THE EDUCATIONAL COMPONENT

VETERINARY ENDOCRINOLOGY

speciality	211 Veterinary medicine	mandatory or optional	Optional
educational program	Veterinary medicine	faculty	Veterinary medicine
educational degree	magistr	department	Internal diseases and clinical diagnosis of animals

Teather

Sobakar Yuliia Viktorivna



Higher education - veterinary medicine specialty
 Scientific degree - candidate of veterinary sciences 16. 00. 01 - diagnosis and therapy of animals
 Academic title - Associate Professor of the Department of Internal Diseases and Clinical Diagnosis of Animals
 Work experience - 12 years
 Indicators of professional activity on the subject of the course:

- author of 10 methodological developments;
- experience of scientific work of 12 years;
- participant of scientific and methodical conferences.

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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)

Aim	providing students with theoretical knowledge and practical skills in the methodology of data analysis of clinical and laboratory research, differential diagnosis, treatment and prevention of diseases of endocrine organs in animals.
Format	lectures, practical classes, independent work, individual tasks, laboratory work, team work

Form of control	3 ECTS credits (90 hours): 16 hours of lectures, 28 hours of laboratory hours, 46 hours of independent work; modular control (2 modules); final control - differentiated assessment.
Requirements	timely completion of laboratory and practical tasks, activity, teamwork
Enrollment conditions	according to the curriculum

COMPLIANCE WITH THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competenciai	<p>GC1. Ability to abstract thinking, analysis and synthesis</p> <p>GC2. Ability to apply knowledge in practical situations</p> <p>GC7. Ability to conduct research at the appropriate level</p> <p>ZC9. Ability to make informed decisions</p> <p>GC11. Ability to evaluate and ensure the quality of performed works</p> <p>SC2. The ability to use tools, special devices, devices, laboratory equipment and other technical means for carrying out the necessary manipulations during professional activity</p> <p>SC3. The ability to observe the rules of labour protection, asepsis and antiseptics during professional activity.</p> <p>SC4. The ability to conduct clinical research in order to formulate conclusions about the condition of animals or establish a diagnosis</p> <p>SC6. Ability to select, pack, fix and send samples of biological material for laboratory research</p> <p>SC7. Ability to organize and conduct laboratory and special diagnostic studies and analyse their results</p> <p>SC8. Ability to plan, organize and implement measures for the treatment of animals of various classes</p> <p>SC 13. The ability to develop strategies for the prevention of diseases of various etiologies.</p> <p>SC16. The ability to protect the environment from</p>	Program result of education	<p>PLO1 Know and correctly use the terminology of veterinary medicine</p> <p>PLO2 Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies</p> <p>PLO3 Determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathological conditions</p> <p>PLO5 Establish a connection between the clinical manifestations of the disease and the results of laboratory studies</p> <p>PLO6 Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies</p> <p>PLO7 Formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-contagious diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species</p> <p>PLO 15. Know the rules of storage of various pharmaceuticals and drugs, ways of their enteral or parenteral use, understand the mechanism of their action, interaction and complex action on the animal body</p>
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pollution by livestock waste, as well as materials and means of veterinary use

STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

Module 1 General pathogenetic mechanisms of development

diseases of endocrine organs. Diseases of the endocrine part of the pancreas.

Lecture 1	General pathogenetic mechanisms of the development of diseases of endocrine organs.	LPL1	The purpose and tasks of the discipline, its importance in the formation of special knowledge and skills of specialists. Methods of determining hormones in biological substrates for the purpose of diagnosis. Preparation of samples for research.	Self work	The role of the hypothalamus in regulating the functions of endocrine organs. Etiology, pathogenesis, symptoms, diagnosis and treatment of diabetes insipidus The role of the pituitary gland in the etiology and pathogenesis of the disease. Violation of the function of the pineal gland. The importance of hormones of the mucous membrane of the alimentary canal in the processes of digestion and metabolism
		LPL-2	Laboratory diagnosis of diabetes. Determination of glucose and insulin in the blood of animals..		
Lecture2	Diseases of the endocrine part of pancreas.	LPL 3	Informativity of clinical and special research methods for the purpose of diagnosing diabetes.		
		LPL 4	Treatment of sick animals with diabetes mellitus and control of its effectiveness.		
		LPL 5	Solving situational tasks. Diabetes mellitus.		
		LPL 6	Module I. General pathogenetic mechanisms of development diseases of endocrine organs. Diseases of the endocrine part of the pancreas.		

Module 2 Diseases of adrenal, thyroid and parathyroid glands

Lecture 3	Diseases of the adrenal glands: hormonally active tumors of the adrenal glands; chronic adrenal insufficiency; primary hyperaldosteronism.	LPL 7	Diagnosis and treatment of animals for adrenal gland diseases. Diagnosis and provision of medical care. Demonstration of slides and a video film on the pathology of the adrenal glands..	Selfwork	1 Determination of the functional state of the adrenal glands and the main causes of their pathology. The role of adrenal hormones in the mechanisms of development of ketosis in cows.
Lecture 4	Endocrine forms of obesity. Classification..	LPL 8	Diagnosis and treatment of animals for adrenal gland diseases. Diagnosis and		2 The main syndromes of diseases of the thyroid glands.

			provision of medical care. Demonstration of slides and a video film on the pathology of the adrenal glands..		Mechanisms of formation and functions of thyroid hormones. The role of iodine in thyroid function disorders. 3.Diseases of the thyroid gland: Diffuse toxic goiter, thyroiditis, toxic adenoma and cancer of the thyroid gland.
Lecture 5	Assistance in acute adrenal insufficiency.	LPL 9	Working out in practice diagnostic measures for diseases of the adrenal glands.		
		LPL 10	Laboratory diagnosis of diseases of the adrenal glands. Methods of determining the hormones of the cortical part of the adrenal glands in the blood of animals		
Lecture 6	Diseases of the thyroid gland: hypothyroidism.	LPL 11	Laboratory diagnosis of diseases of the adrenal glands. Methods of determining the hormones of the cortical part of the adrenal glands in the blood of animals		
Lecture 7	Diseases of the thyroid gland: hyperthyroidism	LPL 12	Laboratory diagnosis of diseases of the adrenal glands. Methods of determination of hormones of the cerebral part of the adrenal glands in the blood of animals.		
Lecture 8	Assistance in thyrotoxic and hyperparathyroid crisis. Hypoparathyroid tetany.	LPL 13	Methods of diagnosing diseases of the thyroid gland. Animal studies. Hypothyroidism. Diffuse toxic goiter..		
Lecture 9	Diabetology. Diet therapy for endocrine diseases.	LPL 14	Treatment of sick animals with pathology of the thyroid gland.		
		LPL 15	Treatment of sick animals with pathology of the thyroid gland.		
		LPL 16	Film about thyroidal pathology.		
		LPL 17	Solving situational tasks. Hypothyroidism, hyperthyroidism		
		LPL 18	Module II Diseases of adrenal glands, thyroid and parathyroid glands.		

MAIN LITERATURE

Literature

1. Ветеринарна клінічна біохімія: підручник /В.І. Левченко та ін.; за ред. В.І. Левченка і В.В. Влізла. 2-ге вид., перероб і та доп. Біла Церква, 2019. – 416 с.
2. Внутрішні хвороби тварин: підручник / [Левченко В.І., Кондрахін І.П., Влізла В.В. та ін.]; за ред. В.І. Левченка. – Біла Церква, 2015. – Ч. 2. – 610 с.
3. Edward Feldman, Richard Nelson, Claudia Reusch, J. Catharine Scott-Moncrieff. Canine and Feline Endocrinology, Elsevier. 2014.- 654 p.
4. Клініко-лабораторні та спеціальні методи дослідження собак і котів за хвороб ендокринної системи. Методичні рекомендації для здобувачів факультету ветеринарної медицини і слухачів Інституту післядипломної освіти / Собакар Ю. В., Маценко О. В., Могільовський В. М. та ін. -Х., 2024.- 81 с.

Methodical support

1. Робочий зошит для лабораторних занять з дисципліни «Ветеринарна ендокринологія», Модуль I /Собакар Ю. В.– Х., 2022.- 47 с.
2. Робочий зошит для лабораторних занять з дисципліни «Ветеринарна ендокринологія», Модуль II /Собакар Ю. В.– Х., 2022.- 41 с.

EVALUATION SYSTEM

	SYSTEM	SCORE	SCORE THAT 50% from total score by module
Final score	100 score ECTS (standard)	up 50	50% from averaged module assessment
		up 50	final score
Module score	100 score to sum up	up 50	test
		up 20	oral answers in laboratory-practical classes
		up 30	the result of mastering the block of independent work

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 prescribed in the provision "On academic integrity of participants in the educational process of SBU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility..