Ministry of Education and Science of Ukraine Sumy National Agrarian University Faculty of Veterinary Medicine Department of Therapy, Pharmacology, Clinical Diagnostics and Biochemistry

MODULE SYLLABUS

Internal diseases of animals

(compulsory)

Implemented in the "Veterinary Medicine" Academic Program

Area of specialization 211 "Veterinary Medicine"

at the second (master 's) level of higher education

Considered, approved and approved at the meeting of the Department of Therapy. Pharmacology. Clinical Diagnostics	protocol from <u>C5. C6. 2C. 24</u> No. My (Surpasse)
and biochemistry	(signature) (surname,
Agreed: Guarantor of the education Dean of the faculty when	e
Suarantor of the education	e
Guarantor of the education	e is implemented O. L. Nethiporenko
Guarantor of the education of the faculty when the educational program Work program review (e is implemented O. L. Nethiporenko
Guarantor of the education of the faculty when the educational program Work program review (is implemented O. L. Nethiporenko O. Shekrones a attached) provided: ment of Education Quality,

<u>Information on reviewing the work program (syllabus):</u>

Academic	The number of the	The changes have been reviewed and approved			
year in which changes are made	appendix to the work program with a description of the changes	Date and number of the minutes of the meeting of the department	Head of Department	Guarantor of the educational program	

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Name OK		eases of animals			
2.	Faculty /	Faculty of V	eterinary Medici	ne; Department of	Гherapy, Pharmacology,	
	department		gnostics and Bio	chemistry		
3.	Status OK	Obligatory				
4.	Program / Specialty (programs), the component of which is OK for (to be filled in for mandatory OK)	211 - veterin	ary hygiene, san	itation and examina	ation	
5.						
6.	NRC level	Level 7				
7.	Semester and duration of study	9, 10.				
8.	Number of ECTS credits	7			,	
9.	The total		Contact work (cl	<u> </u>	Independent work	
	number of hours and their distribution	Lectures 4 2/2	Practical / seminar	Laboratory 12 6/6	194 82/112	
10.	Language of instruction	English				
11.	Teacher / Coordinator of the educational component	O.V. Musiie	nko candidate of	veterinary sciences	, associate professor	
1 1.1	Contact Information	aleksey_mus 0507388690	•			
12.	General description of the educational component	in the systed diseases of a beyond the properties of an entire the system of the properties of an entire the system of the syste	em of training of training of training of training of the mass of the mass of the thology, causing studying the discuire skills in solon the analysis of sks, students muthem with the The study of the haphilosophical aboratory research	veterinary medicine edical thinking. The nation and treatment ite widely used in ificance of the discussed diseases, which great economic daripline is to consolidation certain tasks, practical situations, ast be equipped with methods of scientice course is based of linclination and the and practice with the ch.	late the material studied and in mastering the necessary phenomena, etc., in addition a skills and abilities. classes ific research and technical on the generalization of the ne achievements of physics, e use of modern	
13.	The purpose of the educational component	During the sknowledge modern met second level Theoretical I	study of the disc from different s hods of work ac acquire the follo knowledge and sl	sipline, in the processections of the distorted in industry lowing competencies kills will allow grad-	ess of mastering theoretical scipline, acquaintance with aboratories, students of the : uates of OS "Master" during ractical problems of non-	

		communicable pathology (patterns of occurrence and spread of diseases, features of their course, diagnosis and treatment, different groups in farms and clinics).
14.	Prerequisites for studying OK, the relationship with other educational components of OP	The educational component is based on EK Animal physiology Clinical diagnosis of animal diseases Veterinary pharmacology 2. The educational component is the basis for the following EK: Wind Mr. Arnie technology prevention of non-communicable animal diseases
15.	The policy of academic integrity	All tasks related to calculations, drawing up plans and registration of accounting documentation will have individual initial data. Violation of academic integrity in the study of EK "Internal Diseases of Animals" will be considered: academic plagiarism, academic fraud (copying, deception, publishing someone's work for their own), the use of electronic devices during the final control of knowledge. For violations of academic integrity of applicants education may beprosecuted to such academic responsibility: Academic plagiarism – grade 0, recompletion of the task. Academic fraud - cancellation of points; repeated passage of evaluating repeated execution of non-self- performed work on new source data; The use of electronic devices Mr Eid a final control of knowledge - suspension of execution of work, score 0, re- passing the final control.
16.	Course link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=3994

2. LEARNING RESULTS FOR THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH THE SOFTWARE LEARNING RESULTS

MLOs:			I	PLOs	3			How assessed
On successful completion of the module the learner will be able to:	PLOs1	PLOs 2	PLOs 4	PLOs 5	PLOs 6	PLOs 7	PLOs 8	
MLOs 1. Know the main principles, types and methods of therapy of animals.	+							Referenceabstract
MLOs 2. Be able to predict the development of the disease, prescribe treatment and prevention. Analyze the results obtained during the course of treatment. Understand the importance and responsibility for keeping clinical records of thesupervising physician.		+						Reviewbriefcase inand an alyzesituations
MLOs 3. Know the features of the etiology pathogenesis, symptoms, as well as the principles of treatment and prevention of animal diseases			+					Reviewbriefcase inand an alyzesituations
MLOs 4. Ability to conduct clinical trials to draw conclusions about the condition of animals or to make a diagnosis and totake, pack, record and send samples of biological material for laboratory research.				+				Group tasks, problem solving.
MLOs 5. Be able to develop quarantine and health measures, methods of therapy, diagnosis, treatment and prevention of diseases of various etiologies.					+			Practical test of application skills.
MLOs 6. Know the rules of storage of various pharmaceuticals and biologicals, ways of theirenteral orparenteral use, understand the mechanism of their action, interaction and complex action on the body of animals. Formulate conclusions on the exploitation and treatment of animals of different classes and species, prevention of infectious and non-communicable diseases.						+		Practical test of application skills.
MLOs 7. Know about the dangers of biological waste and dispose of them as required							+	Presentations

3. CONTENT OF THE EDUCATIONAL COMPONENT (PROGRAM OF THE COURSE)

Subject.	Distrib	Learning		
List of issues to be addressed within the topic	tota	l timebuo	lget	resources
	Class	room	Self-	
	wo	rk	directed	
	Lectures	Labs	study	
9 semester				
Topic 1. Fundamentals of general therapy of internal			4	1, 2, 3, 4,
diseases.				5, 6, 7, 9,
Introduction. Subject, content and methods of studying the discipline,				11
its structural and logical scheme, importance in the formation of a				
veterinarian. Basic rules of therapy. Classification of types of				
therapy.				

Topic 2. Methods of therapy .		6	1, 2, 3, 4,
Classification of methods of veterinary therapy.			5, 6, 7, 9,
Clussification of methods of veterinary therapy.			17
Topic 3. General prevention of internal diseases of animals .	2	5	1, 2, 3, 4,
Indicators of complete feeding of farm animals. Consideration of			5, 6, 7,
features of the organization of rational feeding of animals taking			20
			20
into account a kind, age, breed, a physiological condition,			
industrial use of animals, type of a diet. Study of the composition			
of feed, which may contain a significant amount of different			
chemical structure of substances that are potentially dangerous to			
animal and human health as consumers of livestock			
products. Analysis of animal feeding and feed			
quality. Anti- nutrients (antialimentary, protease inhibitors,			
antivitamins, antiminerals). Toxic substances of			
feed: glycosides (nitro- and thioglycosides,			
saponins, polyphenoliccompounds). The use of chemical and			
microbiological synthesis for the prevention of internal diseases of			
animals.			
Topic 4. Medical examination of farm animals, its theoretical		5	1, 2, 3, 4,
foundations, stages and tasks.			5, 6, 7,
General prevention of internal diseases of farm animals. Medical			13
examination. Methodology of medical examination. Consideration			13
of the principles of sample population and continuity. Stages and plan of medical examination.			
		10	1, 2, 3, 4,
Topic 5. Diseases of the cardiovascular system.		10	
Introduction to the main symptoms and syndromes of diseases of			5, 6, 7,
the cardiovascular system. Acute and chronic heart			14
failure. Pericardial diseases. Traumatic pericarditis. Differential			
diagnosis of traumatic pericarditis			
and reticuloperitonitis. Treatment and prevention of pericardial			
diseases. Hydropericardium, differential diagnosis of			
pericarditis. Myocardial diseases: myocarditis, myocardial			
infarction, myocardial fibrosis (myocardiosclerosis), myocardial			
infarction, myocardial infarction, heart			
enlargement, cardiomyopathy . Differential diagnosis			
of myocardial infarction. Differential diagnosis of myocardial			
infarction and myocarditis. Treatment of animals with myocardial			
damage. Endocardial diseases: endocarditis, heart			
disease. Differential diagnosis			
ofendocardial diseases. Consideration of medical			
history. Hypertension, its causes and diagnosis. Vascular diseases:			
arteriosclerosis and thrombosis.			
Topic 6. Diseases of the respiratory system.		10	1, 2, 3, 4,
Classification of diseases of the respiratory system, their			5, 6, 7,
prevalence. Rhinitis. Bleeding from the			15
			13
nose. Sinusitis. Frontitis. Aerocystitis. Laryngitis. Swelling of the			
larynx. Tracheitis. Bronchial asthma.Bronchitis. Animal studies in			
case of nosebleeds, rhinitis, laryngitis, laryngeal edema, tracheitis,			
bronchitis. Pneumonia: definition, classification by etiology,			
nature of exudation and the degree of lung tissue damage. Catarrhal			
bronchopneumonia: definition, etiology, pathogenesis,	1		
			i i
symptoms.Determination of the etiology			
symptoms.Determination of the etiology of lobar, aspiration andatelectatic pneumonia and their differential			
symptoms.Determination of the etiology			
symptoms.Determination of the etiology of lobar, aspiration andatelectatic pneumonia and their differential			
symptoms.Determination of the etiology of lobar, aspiration andatelectatic pneumonia and their differential diagnosis from catarrhal bronchopneumonia and			

	ı	ı	
nt-necrotic pneumonia, pulmonary gangrene. Research of sick animals.Introduction to diagnostic methods for pneumonia.Development of treatment and prevention measures for lung diseases of inflammatory nature. Providing medical care to animals with pneumonia.Consideration of medical history. Hyperemia and pulmonary edema. Alveolar and interstitialemphysema of the lungs. Pulmonary hemorrhage.Pleural diseases. Pleurisy: etiology, pathogenesis, symptoms, diagnosis and treatment. Hydrothorax, pneumothorax. Research of sick animals.Consideration of medical history.			
Topic 7. Diseases of the digestive system, liver and bile ducts.	2	10	1, 2, 3, 4,
Classification of diseases of the digestive system. Diseases of the oral cavity, pharynx and			5, 6, 7, 16
esophagus.Stomatitis. Pharyngitis. Pharyngeal			10
paralysis.Inflammation of the esophagus. Enlargement of the			
esophagus. Narrowing of the esophagus. Obstruction of			
the esophagus. Paralysis of the esophagus. Esophageal			
spasm. Diseases of the pancreas and abomasum. Hypotension of			
the scar. Scar acidosis. Scar alkalosis. Scar overflow. Paresis of the			
scar.Parakeratosis of the scar. Ruminite . Acute tympanic scar. Reticulitis . Traumatic reticulitis andreticuloperitonitis . Clos			
ing the book. Abdominaldisplacement and abomasum			
inflammation, Hofflund'ssyndrome . Diseases of the stomach and			
intestines: gastritis, gastroenteritis, gastric ulcer,			
enterocolitis.Diseases of the stomach and intestines with colic			
syndrome: classification, main symptoms, diagnostic methods,			
principles of treatment. Stomach enlargement. Himostasis . Coprostasis. Enteralgia .Flatulence. Int			
estinal obstruction. Mechanical obstruction: torsion and torsion of			
the intestines, pinching, intussusception and displacement of the			
intestines. Thromboembolism of			
the mesentericarteries. Registration and consideration of medical			
history, diagnosis, treatment. Providing medical care for diseases			
of the gastrointestinal tract. Development of treatment and			
prevention measures for diseases of the gastrointestinal tract. Classification of diseases of the			
liver and bile passages. Main symptoms (jaundice, cholestasis) f			
or diseases of the			
liver andbile passages . Hepatitis. Amyloidosis . Cirrhosis .Hepato			
dystrophy: etiology,			
pathogenesis, symptoms ,diagnostic methods . Differential diagno			
sis (hepatodystrophy, parenchymal and purulent hepatitis, cirrhosi			
s), treatment and Prof. ilaktyka diseases of the liver . Diseases of the biliary tract :			
cholecystitis, cholangitis, gallstone disease. Prof. prevention of liv			
er disease .			
Topic 8. Peritoneal		2	1, 2, 3, 4,
diseases . Diseases Sectionidshlunkovoyi cancer .			5, 6, 7,
Peritoneal diseases. Peritonitis. Hydrocephalus. Differential			23
diagnosis, treatment and prevention.Research of sick animals. Consideration of medical history. Classification of			
diseases of the pancreas. The main symptoms of diseases of the			
pancreas, pain, cholestatic and exocrine insufficiency. Pancreatitis.			
Topic 9. Diseases of the kidneys and urinary tract.		10	1, 2, 3, 4,
Classification and main syndromes of diseases of the urinary			5, 6, 7,
system. Study of kidney diseases:glomerulonephritis (nephritis),			12

pyclonephritis and its complications (peri- and paranephritis, pyonephrosis), kidney kidney abscess, nephrosclerosis, nephrosis (nephrosis, treatment and prevention of kidney disease. Study of urinary tract diseases: urocystitis, neurogenicdysfunction of the bladder (the sphineter spasms, paresis and praralysis of the bladder). Chrolithiasis (nephro- and urolithiasis). Chronic hematuria of cattle. Diseases of the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of thererous system. Vascular disorders main brain, the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and system spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myellitis, meningoencephalitis, s, reninhomisht. Functional nerve disease, neurosis, ep ilepsiya; eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system, Stress and its prevention. Topic 12. Diseases of the membly (toxic, postpartum hemoglobinuria of cows. paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease sof the immune system. Study of cellular and humoral mechanisms of protection of an organism. Juminune deficiencies. Study gap iferatyvnyh disease hemolytic diseases. And Dr. iopatychni disease, autoimmune demods of the newbornaminals, autoimmune hemolytic anemia dogs and cats(AGA), an (see the immune system sees and the protection of all				
pyonephrosis, nephrosis (nephrosis (nephrosisyndrome), hydronephrosis, Differential diagnosis, treatment and prevention of kidney disease, Study of urinary tract diseases uncoystitis neurogenic dysfunction of the bladder (the sphineter spasms, paresis and paralysis of the bladder). Urolithiasis (nephro- and urolithiasis). Chronic hematura of cattle, Diseases of the lower urinary tract: urelbral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of the henervous system. Vascular disorders main brain, the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatisya); ischemia and hyperemia of the brain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephaltis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephaltis, melitis, melitis, spellitis, spellipsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows. Topic 12. Diseases of the morrial hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows. Topic 12. Diseases of the morrial hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (disease) of the brain and prevention of anemia. Hemorrhagic distances: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system diseases. General characteristics of autoimmune demotosis (rederlythematosus). Differential diagnosis, treatment andProf. il aktyka diseases	pyelonephritis and its complications (peri- and paranephritis,			
inephrosicelorosis, nephrosis (nephroticsyndrome), hydronephrosis. Differential diagnosis, treatment and prevention of kidney disease. Study of urinary tract diseases: urocystitis, neurogenicdysfunction of the bladder (the sphincter spasms, paresis and paralysis of the bladder). Urbithaisis (nephro- and urolithiasis). Chronic hematuria of cartle. Diseases of the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of therral re p Joanna (hyperthermia), su stroke (hiperinsolyatsiya); is schemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain and its membranes. Hydrocephalus of theventricles of the brain spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, melnigoencephaliti s, meninhomistit. Functional nerve disease, neurosis, ep ilepsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease hemolytic disease. Allergic diseases (allergies). Topic 12. Diseases of the immune system deneral mechanisms of allergic reactions. Mediatorsof allergic reactions, her would iolohichna action. Methods of diagnosis of allergic diseases. Celmition, etiology, pathogenesis, diagnosis and likuvannya certain allergic diseases. Hemorrhagic disease. All	pyonephrosis), kidney abscess,			
hydronephrosis, Differential diagnosis, treatment and prevention of kidney disease. Study of urinary tract diseases: uncoystitis neurogenicdysfunction of the bladder (the sphincter spasms, paresis and paralysis of the bladder). Urolithiasis (nephro- and urolithiasis). Chronic hematura of cattle. Diseases of the lower urinary tract: urelbral obstruction and urethritist, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of theherovous system. Vascular disorders main brain, the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyasitya); is schemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myelitis, meningoencephalitis s, meninhomisth. Functional nerve disease, neurosis, ep ilepsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system, Study of anemias, posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Sudy of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease sof the immune system inperleykotsytozy, hiperimunoliboblinemia; a disease heavy chains. Autoimmune diseases. General characteristics of autoimmune deficiencies of the newbornanimals, autoimmune hemolytic anemia dogs and cats (AGA), an cutoimmune dermatosis of the reatment of allergic diseases. Allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic shock. Allergic rhinitisand conj				
of kidney disease. Study of urinary tract diseases: urocystitis neurogenicdysfunction of the bladder (the sphincter spasms, paresis and paralysis of the bladder). Urolithiasis (nephro- and urolithiasis). Chronic hematuria of cattle. Diseases of the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of therrovous system. Vascular disorders main brain, the thermal re p Joanna (hyperhermia), su stroke (hiperinsolyatsiya); ischemia and hyperemia of the brain and its membranes. Hydrocephalus of theventricles of the brain (hydrocnecphalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis encephalitis, menigence-palaliti s, meninsomesphalitis, seningence-palaliti s, meninsomesphalitis, seningence-palaliti s, meninsomesphalitis, reminsomesphalitis, seningence-palaliti s, meninsomesphalitis, reminsomesphalitis, reminsom				
diseases: urocystitis . neurogenicdysfunction of the bladder (the sphincter spasms, paresis and paralysis of the bladder). Urolithiasis (nephro- and urolithiasis). Chronic hematuria of cattle. Diseases of the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of thenervous system. Vascular disorders main brain , the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyastiya); is schemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis , myelitis, meningoencephaliti s, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya , celampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the mamuna diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatywyh disease with the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatywyh disease of the hemolytic disease. Allergic disease, autoimmune demodes of the newbornanimals, autoimmune hemolytic anemia dogs and cats (AGA), an autoimmune demodes of the newbornanimals, autoimmune hemolytic anemia dogs and cats (AGA), an autoimmune demodes of the newbornanimals, autoimmune demodes of diagnosis of allergic fea				
sphincter spasms, paresis and paralysis of the bladder). Urolithiasis (nephro- and urolithiasis). Chronic hematuria of cattle. Diseases of the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of themervous system. Vascular disorders main bratin, the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and synial cord and brainmembranes inflammatory disorders, meningitis, encephalitis, meningoencephalitis s, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya, ecclampsia, Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias; posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the introduction of an organism. Immune deficiencies. Study gap iferatyvnyh disease s of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease sheavy chains "Autoimmune hemolytic anemia dogs and cats(AGA), an (autoimmune demia), interpretational dogs and cats(AGA), an (autoimmune demia), interpretational dogs and cats (AGA), an (autoimmune demia), interpretational d	· · · · · · · · · · · · · · · · · · ·			
Inephro- and urolithiasis O. Chronic hematuria of cattle. Diseases of the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of thenervous system. Vascular disorders main brain , the thermal re p Joanna (hyperthermia) , sun stroke (hiperinsolyastiya); is ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of the brain and its membranes. Hydrocephalus of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis , myelitis , meningoencephalitis , meninhomislit . Functional nerve disease , neurosis , ep ilepsiya , celampsia . Stress and its prevention . Topic 11. Diseases of the blood system . Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the himatory of the himatory of the newbornanimals and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi , li mfohranulotsytoz , plasmacytoma , macroglobulinemia , a disease "heavy chains" Autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune democratesistics of altergic reactions . Mediatorsof altergic reactions her's would iolohichna action . Methods of diagnosis of allergic diseases. Altergin thinistamines and anti-inflammatory , heartand natispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l'ikuwannya certain allergic diseases. Hemorrhagic diseases . Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to sna	1			
the lower urinary tract: urethral obstruction and urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of thenervous system. Vacual disorders main brain, the thermal re p Joanna (hyperthermia), sun stroke (thiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myelitis, meningoencephalitis, eleminsolist. Functional nerve disease, neurosis, ep ilepsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias; posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdishesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemolastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the lood system and thrombocytopenia. Tumor lesions of the blood system (hemolastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease of the immune system; hiperleykotsytozy, hiperimunohlobulinemiyi, li mrohramulotsytoz, plasmacytoma macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics of altergic diseases. Alergy to autoimmune dermatosis of altergic diseases. Alergy to autoimmune dermatosis of altergic diseases. General principles and methods for the treatment of allergic diseases. General principles and methods for the treatment of allergic diseases. Seneral principles and methods for the treatment of allergic diseases. General principles				
urethritis, diagnosis, appointment and treatment and prevention. Topic 10. Diseases of the nervous system. Classification and syndromes of diseases of thenervous system. Vascular disorders main brain , the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, meningoencephalitis, meninismisli. Functional nerve disease, neurosis, epilepsiya eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies. Study gap iferatyvnyh disease sof the immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, li mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics of autoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease. Allergic diseases. Allergic shock. Allergic thinitisand conjunct iva it. Food allergy, Drug allergic aparts. Phytotherapy for allergic diseases. Allergic shock. Allergic thinitisand conjunct iva it. Food allergy, Drug allergy and servani shockess. Allergy to snake venom, bloodsucking and stingi				
Classification and syndromes of diseases of the nervous system. Vascular disorders main brain , the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis , myelitis, meningoencephalitis s, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune).Treatment and prevention of anemia. Hemorrhagic disthesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the minune system Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease with the immune system: hiperleykotsytozy, hiperimunohlobulinemia, a disease heavy chains. "Autoimmune disease and anti-informations". "Autoimmune diseases. General characteristics of autoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease. Allergic diseases. General mechanisms of allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases. Senderal mechanisms of allergic reactions, per is wo	the lower urinary tract: urethral obstruction and			
Classification and syndromes of diseases of the nervous system. Vascular disorders main brain , the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis , myelitis, meningoencephalitis s, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune).Treatment and prevention of anemia. Hemorrhagic disthesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the minune system Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease with the immune system: hiperleykotsytozy, hiperimunohlobulinemia, a disease heavy chains. "Autoimmune disease and anti-informations". "Autoimmune diseases. General characteristics of autoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease. Allergic diseases. General mechanisms of allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases. Senderal mechanisms of allergic reactions, per is wo	urethritis, diagnosis, appointment and treatment and prevention.			
Classification and syndromes of diseases of thenervous system. Vascular disorders main brain, the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephaltis, myelitis, meningoencephaltit s, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system, Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease so of the immune system: hiperleykotsytozy, hiperimunohlobulinemiy, li mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease of the immune system. General mechanisms of allergic reactions. Mediatorsof allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases. Seneralprinciples and methods for the treatment of allergic diseases. Seneralprinciples and methods for the treatment of allergic diseases. Seneralprinciples and methods for the treatment of allergic diseases. Seneralprinciples and methods for the treatment of allergic diseases. Seneralprinciples and methods for the treatment of allergic di		2	10	1, 2, 3, 4,
thenervous system Vascular disorders main brain , the thermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the rain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, meningoencephalitis s, meninhomislit . Functional nerve disease , neurosis ,ep ilepsiya , eclampsia. Stress and its prevention . Topic 11. Diseases of the blood system . Classification of diseases of the blood system. Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune).Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies) . Study of cellular and humoral mechanisms ofprotection of an organism . Immune deficiencies . Study gap iferatyvnyh disease so fheavy chains "Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease autoimmune hemolytic disease "heavy chains "Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease autoimmune hemolytic disease of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic reactions . Pro would iolohichna action . Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic/diseases: antihistamines and anti-inflammatory, heartand antispasmodic agents. Phytotherapy for allergic diseases. Definition , etiology , pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. Hemorrhagic disease . Allergic shock. Allergi chinitisand conjunct iva it . Food allergy. Drug allergo and e	1 -			
hermal re p Joanna (hyperthermia), sun stroke (hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myelitis, meningoencephaliti s, meninhomislit, Functional nerve disease, neurosis, ep ilepsiya , eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies. Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiy, li mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease of the newbornanimals, autoimmune hemolytic anemia dogs and cats(AGA), an (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system. General mechanisms of allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases: antihistamines and anti- inflammatory, heartand antispasmodic agents. Phytotherapy for allergic diseases. Definition, etiology, pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. H emorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickne				
(hiperinsolyatsiya); ischemia and hyperemia of thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myelitis, meningoencephalitis, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ryy-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the limume system. Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies. Study gap iferatyroyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, li mfohranulostytoz, plasmacytoma, macroglobulinemia, a disease. "heavy chains". Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease mothemolytic disease of the immune system. General mechanisms of allergic reactions. Mediatorsof allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and al likuvannya certain allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergices.				13
thebrain and its membranes. Hydrocephalus of theventricles of the brain (hydrocnecphalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myelitis, meningoencephalitis, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Classification of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows., paroxysmal hemoglobinuria, iso- and autoimmune).Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, .ii mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics ofautoimmune diseases . And Dr. iopatychni disease, autoimmune hemolytic disease and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system. General mechanisms of allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases. Generalprinciples and methods of diagnosis of al				
the brain (hydroencephalitis). The study of diseases of the brain and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis , meningencephalitis , meninhomislit . Functional nerve disease , neurosis ,ep ilepsiya , eclampsia . Stress and its prevention . Topic 11. Diseases of the blood system . Classification of diseases of the blood system . Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies) . Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi , li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics of autoimmune diseases . And Dr. iopatychni disease , autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic diseases . Definition , etiology , pathogenesis, diagnosis and li kuvannya certain allergic diseases. Hemorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness . Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
and spinal cord and brainmembranes inflammatory disorders, meningitis, encephalitis, myelitis, meningoencephalitis, meninhomislit. Functional nerve disease, neurosis, ep ilepsiya, eclampsia. Stress and its prevention. Topic 11. Diseases of the blood system. Comministration of diseases of the blood system. Study of anemias: posthemorrhagic, hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria, iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism. Immune deficiencies. Study gap iferatyvnyh disease s of "heavy chains". Autoimmune diseases. General characteristics of autoimmune diseases. And Dr. iopatychni disease autoimmune hemolytic disease "heavy chains". Autoimmune diseases. General characteristics of altergic reactions. Mediatorsof allergic diseases. Generalprinciples and methods for the treatment of allergic diseases. Generalprinciples and methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicidiseases. The immune system diagnosis of allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergics.				
disorders, meningitis , encephalitis , myelitis , meningoencephaliti s , meninhomislit . Functional nerve disease , neurosis ,ep ilepsiya , eclampsia . Stress and its prevention . Topic 11. Diseases of the blood system . Classification of diseases of the blood system. Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies) . Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease so fe immune system: hiperleykotsytozy , hiperimunohlobulinemiyi , li mfohranulotsytoz , plasmacytoma , macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease , autoimmune hemolytic disease of the immune system dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system General mechanisms of allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stingin insects. Syndrome ofcombination of immune deficiency and allergies .				
s "meninhomislit". Functional nerve disease , neurosis , ep ilepsiya , eclampsia . Stress and its prevention . Topic 11. Diseases of the blood system . Classification of diseases of the blood system. Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies) . Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemia; , ii disease "heavy chains ". Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease , autoimmune hemolytic disease (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions , her's would iolohichna action . Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases ses : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergic diseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	<u>*</u>			
celampsia . Stress and its prevention .	disorders, meningitis, encephalitis, myelitis, meningoencephaliti			
Classification of diseases of the blood system. Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi , li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action . Methods of diagnosis of allergic diseases . Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	s ,meninhomislit . Functional nerve disease , neurosis ,ep ilepsiya			
Classification of diseases of the blood system. Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi , li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action . Methods of diagnosis of allergic diseases . Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	, eclampsia . Stress and its prevention .			
Classification of diseases of the blood system. Study of anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies. Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, li mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease of the newbornanimals, autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system. General mechanisms of allergic reactions. Mediatorsof allergic reactions. her 's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory, heartand antispasmodic agents. Phytotherapy for allergic diseases. Definition, etiology, pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.		2	8	1. 2. 3. 4.
anemias: posthemorrhagic , hypoplastic (myelotoxic and alimenta ry-deficient) and hemolytic (toxic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system .Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiy, li mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains".Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease of the newbornanimals, autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system. General mechanisms of allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and I ikuvannya certain allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.		_		
ry-deficient) and hemolytic (texic, postpartum hemoglobinuria of cows, paroxysmal hemoglobinuria , iso- and autoimmune). Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system . Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemia, i disease "heavy chains". Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease , autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action . Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom , bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	1			3, 0, 7.
of cows, paroxysmal hemoglobinuria , iso- and autoimmune).Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system .Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism . Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiy i, li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis,diagnosis and I ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
paroxysmal hemoglobinuria , iso- and autoimmune).Treatment and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of	T			
and prevention of anemia. Hemorrhagicdiathesis: hemophilia and thrombocytopenia. Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma. Topic 12. Diseases of the immune system. Allergic diseases (allergies). Study of cellular and humoral mechanisms ofprotection of an organism. Immune deficiencies. Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, limfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains". Autoimmune diseases. General characteristics ofautoimmune diseases. And Dr. iopatychni disease, autoimmune hemolytic disease of the newbornanimals, autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system. General mechanisms of allergic reactions. Mediatorsof allergic reactions in Mediatorsof allergic reactions, her's would iolohichna action. Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and l'ikuvannya certain allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.	·			
and thrombocytopenia . Tumor lesions of the blood system (hemoblastosis): leukemia (leukemia), hematosarcoma . Topic 12. Diseases of the immune system .Allergic diseases (allergies). Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiy , li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and I ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom , bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
Topic 12. Diseases of the immune system .Allergic diseases (allergies) . Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi ,li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics ofautoimmune disease s . And Dr. iopatychni disease ,autoimmune hemolytic disease newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti- inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom , bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.				
Topic 12. Diseases of the immune system .Allergic diseases (allergies) . Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi ,li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics of autoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	* *			
the immune system .Allergic diseases (allergies) . Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies .Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics of autoimmune diseases . And Dr. iopatychni disease , autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and I ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi ,li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics of autoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action . Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and antiinflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .			2	1, 2, 3, 4,
Study of cellular and humoral mechanisms of protection of an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi ,li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics of autoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action . Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and antiinflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	the immune system .Allergic diseases (allergies) .			5, 6, 7,
an organism . Immune deficiencies . Study gap iferatyvnyh disease s of the immune system: hiperleykotsytozy , hiperimunohlobulinemiyi , li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ". Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system . General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action . Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				14
s of the immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, li mfohranulotsytoz, plasmacytoma, macroglobulinemia, a disease "heavy chains ".Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals, autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions, her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory, heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition, etiology, pathogenesis,diagnosis and l ikuvannya certain allergic diseases.H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
immune system: hiperleykotsytozy , hiperimunohlobulinemiyi ,li mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis,diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
mfohranulotsytoz , plasmacytoma ,macroglobulinemia , a disease "heavy chains ".Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti- inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis,diagnosis and l ikuvannya certain allergic diseases.H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
"heavy chains ".Autoimmune diseases . General characteristics ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune hemolytic disease of the newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
hemolytic disease newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergic diseases: antihistamines and anti- inflammatory , heartand antispasmodic agents . Phytotherapy for allergic disease . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
newbornanimals , autoimmune hemolytic anemia dogs and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti-inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
and cats(AGA), an autoimmune dermatosis (rederythematosus). Differential diagnosis, treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions. Mediatorsof allergic reactions, her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and antiinflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and l ikuvannya certain allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.	<u> </u>			
(rederythematosus). Differential diagnosis , treatment andProf. il aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and antiinflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
aktyka diseases of the immune system .General mechanisms of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and antiinflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis,diagnosis and l ikuvannya certain allergic diseases.H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
of allergic reactions . Mediatorsof allergic reactions , her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases : antihistamines and anti- inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
allergic reactions, her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti- inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. H emorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.	aktyka diseases of the immune system .General mechanisms			
allergic reactions, her 's would iolohichna action .Methods of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti- inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. H emorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.	of allergic reactions . Mediatorsof			
of diagnosis of allergic diseases. Generalprinciples and methods for the treatment of allergicdiseases: antihistamines and anti-inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. Hemorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy and serum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.				
for the treatment of allergicdiseases: antihistamines and anti- inflammatory, heartand antispasmodic agents. Phytotherapy for allergicdiseases. Definition, etiology, pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. H emorrhagic disease. Allergic shock. Allergic rhinitisand conjunct iva it. Food allergy. Drug allergy andserum sickness. Allergy to snake venom, bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies.				
inflammatory , heartand antispasmodic agents . Phytotherapy for allergicdiseases . Definition , etiology , pathogenesis, diagnosis and l ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom , bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
allergicdiseases . Definition , etiology , pathogenesis, diagnosis and 1 ikuvannya certain allergic diseases. H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom , bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .	· ·			
pathogenesis, diagnosis and l ikuvannya certain allergic diseases.H emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom , bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
emorrhagic disease . Allergic shock. Allergic rhinitisand conjunct iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
iva it . Food allergy . Drug allergy andserum sickness. Allergy to snake venom ,bloodsucking and stinging insects. Syndrome ofcombination of immune deficiency and allergies .				
snake venom ,bloodsucking and stinging insects. Syndrome of combination of immune deficiency and allergies .				
of combination of immune deficiency and allergies .				
	· · · · · · · · · · · · · · · · ·			
10 semester				
	10 samestar			

			Г	
Topic 13. Diseases are caused by metabolic disorders .	2	2	40	1, 2, 3, 4,
Classification, distribution, features of the course and				5, 6, 7,
diagnosis. Study of diseases caused by predominant disorders of				15
protein, carbohydrate and lipid metabolism: ketosis of cows and				
sheep, myoglobinuria, obesity, alimentary dystrophy. Diseases				
caused by disorders of macronutrient metabolism: osteodystrophy				
(alimentary, enzootic, secondary),hypomagnesemia (pasture				
tetany), postpartumhypophosphatemia . Microelementosis				
of animals Distribution, general principles of diagnosis and				
prevention. Iodine deficiency. hypocobaltosis ,hypocuprose , zinc				
deficiency (paraxratosis ofpiglets), manganese, fluorine,				
selenium. Excess fluorine, boron, selenium, nickel, strontium				
andmolybdenum. Hypovitaminosis . Insufficiency of fat-soluble				
vitamins: A, D, E, K. Insufficiency of water-soluble vitamins:				
thiamine, riboflavin, nicotinic acid, pyridoxine, cyanocobalamin,				
ascorbic acid. Hypervitaminosis A and. D. Differential diagnosis,				
treatment and prevention of animals with metabolic disorders.				
Topic 1 4. Diseases of the endocrine organs .Skin diseases .		2	34	1, 2, 3, 4,
			34	
l *				5, 6, 7, 22
				22
glands:hypoadrenocorticism and Cushing's syndrome .Disorders				
of endocrine function of the pancreas. Diabetes. Diseases of				
the thyroid gland:hypoparathyroidism,				
postpartum hypocalcemia .Thyroid diseases: hypothyroidism,				
endemic goiter, diffuse toxic goiter. Disorders of endocrine				
function of the thymus . Allergic skin diseases: eczema, urticaria,				
atonic dermatitis, sputum. Autoimmune skin diseases: vesicular				
dermatoses, disc-shaped lupus				
erythematosus . Dermatosparaxia . Differential diagnosis of skin				
diseases. Diseases of the skin glands: seborrhea, sweat				
gland dysfunction, pyoderma. Symptoms of skin lesions: alopecia,				
excessive hair growth, changes in skin and hair pigmentation, itchy				
skin. Psychogenic skin lesion syndrome.				
Topic 15. Diseases of young animals.		2	38	1, 2, 3, 4,
Spread of diseases in young animals. Features of agephysiology				5, 6, 7,
of young animals . And m unny protection				22
of newborn young growth . Immunodeficiency of young				
animals. Classification of diseases of young				
animals. Antenatal malnutrition. Acute hypoxia introand - and				
neonatal periods . Neonatal diseases withdiarrhea syndrome : case				
in-				
bezoar disease, colostrumtoxicosis, dyspepsia. Differential diagn				
osis, treatmentand prevention of gastrointestinal diseases				
of newbornanimals. Omphalitis and omphalophlebitis. Metaboli				
c disease of young, Mr. ipohlikemiya, hypoplasticanemia piglets,				
calves and lambs; D -hypovitaminosis(rickets); white				
muscle disease of young animals; enzootic ataxia of				
lambs. Diseases of the digestive				
system . Periodic tympanic scar in calves and				
lambs.Bezoar disease .	<u> </u>			
Total	4	12	194	

4. METHODS OF TEACHING AND TEACHING

MLOs	Teaching methods (directed study)	hours	Learning methods (self-directed study)	hours
MLOs 1.	Lecture, story, explanation, instruction, work with books and other sources. Learning the basic principles, types and shall to es use of drugs of different dosage forms. Work with animals / biological materials, in a group of 2-3 students		Reading (elaboration of theoretical material). Using the Moodle platform for remote control of material acquisition	
MLOs 2.	Multimedia lecture, story, explanation, instruction, work with books and other sources. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 3.	Multimedia lecture, story, explanation, instruction, work with books and other sources. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 4.	Demonstration of available equipment and devices, videos, their use during diagnostic, preventive, veterinary and sanitary works.		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 5.	Demonstration of available equipment and devices, videos, their use during diagnostic, preventive, veterinary and sanitary works.		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 6.	Thematic survey during laboratory (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals, methods of laboratory work. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 7.	Thematic survey during laboratory (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals, methods of laboratory work. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	

5. EVALUATION BY EDUCATIONAL COMPONENT

5.1. Diagnostic evaluation (indicated if necessary)

Computer testing for knowledge of the etiology, pathogenesis, symptoms and pathological signs of major non-communicable diseases and other issues on which the study of internal diseases of animals is based. The grade is not issued.

5.2. Summative assessment

5.2.1. To assess the expected learning outcomes provided

	5.2.1. To assess the expected featining outcome		
Nº	Methods of summative evaluation	Points / Weight in the overall score	Date of compilation
	9 semester	•	1
1.	Thematic survey	20 points / 20%	Weekly
2.	Working with animals	25 points / 25%	According to the schedule of the hospital
3.	Solving situational problems	25 points / 25%	According to the schedule
4.	Protection of the abstract from independent work	15 points / 15%	According to the schedule of delivery of modules
5.	Multiple choice tests	15 points / 15%	According to the schedule
	10 semester		
1.	Thematic survey	20 points / 20%	Weekly
2.	Working with animals	25 points / 25%	According to the schedule of the hospital
3.	Solving situational problems	25 points / 25%	According to the schedule
4.	Protection of the abstract from independent work	15 points / 15%	According to the schedule of delivery of modules
5.	Multiple choice tests	15 points / 15%	According to the schedule

Compon	Unsatisfact	Satisfactoril	Fine	Perfectly
ent	orily	y		
	<12 points i	12-15	15-18 points	20 points
	n			
Themati	The student	The student	The student in	The student demonstrates complete and solid
c survey	can play	has certain	general is well	knowledge of the educational material in the
	only	knowledge	versed in the	amount that corresponds to the program of the
	individual	provided in	material, knows	discipline, correctly and reasonably makes
	fragments	the program	the basic	the necessary decisions in various non-
	of the	of the	provisions of the	standard situations.
	course.	discipline,	material, makes	
		has the basic	an analysis of	
		provisionsst	possible	
		udied at a	situations based	
		level that is	on them and is	
		defined as	able to apply in	
		the	solving typical	
			practical	

		minimum allowable	problems, but admits some inaccuracies	
	<2 points	2-5	5-8 points	10 points
Working with animals	Task requirement s not met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All the requirements of the task are met, but in violation of themethods	The task isperformedmethodicallycorrectly andqualita tively .Students in Mierealize thetheoretical position of the discipline in practice
Solving situation al problem s	The student is not prepared to solve problems, theanswer is incomplete, some components are missing or insufficient to disclose	Using the basic theoretical provisions, the student has difficulty performing the task. Tasks are significantly formalized: there is a corresponde nce of the algorithm, but there is no deep understandin g of the work	The student has mastered the basic material, and understands the solution of problems, has suggestions on the direction of their solutions. Under stands the main provisions that are decisive in the course, can solve similar problems with those discussed with the teacher, but allows a small number of inaccuracies	The correct answer . P ri performingtasks demonstratedthe ability toindependentlysolve the set task

5.1. Formative assessment:

To assess current progress in learning and understanding areas for further improvement

№	Elements of formative assessment	Date
1	Oral questioning by a laboratory (concept symptoms,	During the lesson
	prognosis, diagnosis, syndrome, fixing animals, methods	
	ofimplementation of laboratory work)	
2	Verbal feedback from the teacher Mr. Eid while working	During the lesson
	ona yrishennya of situation tasks (orally, registration and	
	medical history, use of the data for further study of	
	animals)during the sessions	
3	Pysmovmy feedback from	Within a week, after execution
	teacher Mr. donkey checkcompendium of independent study	
	courses	

Self-assessment can be used as an element of summative assessment and formative assessment.

6. LEARNING RESOURCES (LITERATURE)

6.1. The main sources

6.1.1. Textbooks guide

- 1. Internal diseases of animals / Levchenko VI, etc.; VI Levchenko . Bila Tserkva, 2012. Part 1. 528 p.
- 2. Internal diseases of animals / Levchenko VI and others; for order. VI Levchenko . Bila Tserkva, 2001. Part 2. 544 p.
- 3 Internal non-communicable diseases of animals: textbook . / Tsvilikhovsky MI and others. 3rd ed., Revised . and add . Kyiv: Agrarian Education, 2014. 614 p.
- 4. Internal diseases of animals / Tsvilikhovsky MI and others. Kyiv: Aristei, 2004. 139 p.
- 5 . General therapy and prevention of internal diseases of animals: workshop / Levchenko VI and others; for order. VI Levchenko . Bila Tserkva, 2000. 224 p.
- 6. Internal diseases of animals: a workshop. / Tsvilikhovsky MI and others. Kyiv: Aristei, 2005. 148 p.
- 7. Kondrahyn Y.P, LevchenkoV.Y., Talented, GA Handbook of veterinary therapist and toxicologist. Moscow: Kolos S. 2005. 544 p.

6.1.2. Methodical support

- 8. Internal diseases of animals. Methods of fixation and taming of animals and basic methods of research of animals at internal diseases. Methodical instructions for laboratory-practical classes for 3rd year students in the direction of training 6.110101 "veterinary medicine" / L.G. Ulko, VM Musienko, OI Sklyar, OV Musienko, OI Shkromada , R.V. Dolbanosova , OS Tank . Sumy, SNAU. 2015. 31 p.
- 9. METHODICAL MANUAL "Methods of therapeutic techniques" for independent work of students of the Faculty of Veterinary Medicine on internal diseases of animals for 3rd year students of the Faculty of Veterinary Medicine in the field of training 6.110101 "Veterinary Medicine" Sumy: Sumy State Agrarian University, 49
- 10. The use of dietary feed for internal diseases of animals. Methodical manual. Sumy. 2015. 37 p.
- 11. General prevention of internal diseases of animals. Methodical manual for laboratory practical classes and independent work of 3rd year students of the Faculty of Veterinary Medicine in the discipline "Internal Diseases of Animals". Amounts 2015 100 s.

6.1.3. Other sources

- 12. http://zoolife.rv.ua
- 13. https://studfiles.no
- 14. http://tvarunu.com.ua/tsikave/130/144/
- 15. http://ukranimals.ru
- 16. http://medbib.in.ua
 - 6.2. Additional sources
- 17. Workshop on clinical diagnosis of animal diseases to laboratory classes and independent work of students / [N.I. Suslova, P.P. Antonenko, P.M. Sk larov and others.] [] // Dnipropetrovsk State Agrarian University, Department of Clinical Diagnostics and Internal Diseases of Animals Dnipropetrovsk: DSAU Publishing House, 2013. 274 p.
- 18. Antonenko PP Medicinal plants in animal husbandry; textbook / N.I. Suslova, VO Postoenko (etc.) Kherson Oldie- Plus , 2014, 424p.
- 19 . Lokes . P.I. Medicinal plants. Textbook / P.I. Lokes , I.S. Postoenko . Poltava: Environment.- K., 2010.- 264 p.
- 20. Lokes P.I. basics of veterinary formulation and technology of dosage forms: textbook . manual./ P.P. Shekhtakhin , TP Lokes Krupka, NS Kanivets Poktava , FOP Tovarov SV 2014.- 152 p.
- 21. Yevushenko MD Maryutin FM, Turenko VP tv etc., Phyto pharmacology / textbook MD Yevtushenko, FM Martin, VP, VP. Turenko. Higher education, -K .:, 2004.- 432p.

- 22. Kozachok VS Clinical study of exotic animals: Textbook / V.S. Козачок, О.О. Skiba, MI Tsvilikhovsky . К .: Арістей , 2010. 252 с.
- 23. Mazurkevich A.Y. Pathophysiology of animals / Mazurkevich AY, Tarasevich VL, Klyugi J. K .: Higher school, 2000. -352 p.

6.3. Software

- Computers with software for practical work
- Microsoft Power Point data visualization Microsoft Power BI analytics and data visualization
- Multimedia projector, whiteboard and screen;
- Moodle distance learning and control system