

SEM X

Name of the programme module	Veterinary Prevention 2
Programme module type (obligatory/optional)	obligatory
Year of studies for a given field	5
Term for a given field	10
ECTS credits together with contact/no contact hours division	3 (2/1)
A unit providing the course	Institute of Biological Bases of Animal Diseases Division of Veterinary Prevention and Diseases of Birds
Module objective	The aim of education in this field is the acquisition of skills that allow the evaluation of health in the populations of animals diverse in terms of species and productivity, on the basis of epidemiological and production indicators. Evaluation of the significance of environmental factors for health, including the ability to identify and eliminate those factors which are harmful for animals. Planning and implementing measures to tackle threats, improve health and increase flock productivity. Single-handed preparation of prophylactic schemes and elimination of physically, chemically and biologically induced threats in animal populations. An evaluation of efficiency of the implemented prophylactic schemes.
Educational results	Knowledge: Broad knowledge of basic concept categories and terminology used in veterinary prevention, as well as terms with a direct reference to practical implementation of knowledge on prevention. Knowledge of prophylactic schemes planning and research tools used in immunological research, as well as basic technologies that take advantage of the latest scientific achievements.
	Skills: Ability to seek, comprehend, analyse and creatively implement the necessary information from various sources and in different forms, specific to veterinary prevention. Ability to interpret legal regulations regarding the prophylaxis of communicable diseases, as well as an ability to determine the essential requirements of quarantine, adaptation of animals, and the knowledge of rodent control, disinsection and disinfection. Ability to evaluate the microclimate, as well as the knowledge of measurement technology and its components. Development and implementation of prophylactic schemes specific to individual species of productive animals. Development and implementation of prophylactic schemes specific to individual species of productive animals.
	Social competence: Ability to cooperate and work in a group assuming various roles. Awareness of the need of targeted further education and self-improvement with regard to their occupation
Content of the programme module	Main reasons of economic losses in individual sectors of livestock production. Characteristics of the breeding environment; Impact of the environment on the occurrence of diseases; Prophylaxis of communicable diseases. Sanitary protection of frontiers: international and domestic sanitary regulations regarding communicable diseases, obligatory and recommended preventive vaccination – prevention at a global level, community level, union level, – domestic level, local structures and units of livestock production levels. Prophylaxis in herds of dairy and beef cattle. Prophylaxis in herds of pigs. Prevention in goat herds and sheep flocks. Rules for preparing prophylactic schemes. Disposal of excrement, dead bodies and solid waste. Rodent control, disinsection, disinfection. Quarantine.
Planned didactic forms/actions/methods	Lecture, tutorials, laboratory classes, field classes,

Name of the programme module	Diseases of dogs and cats. Block II
Programme module type (obligatory/optional) field	Obligatory
Year of the study programme	V
Semester of the study programme	X
ECTS credits together with contact/no contact hours division	14 (8.0/6.0)
A unit providing the course	Department and Clinic of Animal Surgery Department and Clinic of Internal Diseases of Animals Department and Clinic of Animal Reproduction Department of Epizootiology and Clinic of Infectious Diseases of Animals
Module objective	The aim of the module is to: familiarise students with particular internal, infectious, reproductive, surgical and locomotor diseases of dogs and cats, including the etiology, pathogenesis and clinical course of the diseases; teach students the methods of diagnosis, and surgical and non-surgical medical management of particular disease entities, as well as differential diagnosis,

	management of treatment and prevention of the diseases; familiarise students with infectious compulsory notifiable diseases of dogs and cats and the administrative procedure for the reduction and elimination of the disease-related risk to humans.
Educational results	<p>Knowledge: Student knows the causes, pathogenesis, clinical symptoms, diagnostic methods and principles for the therapy and prevention of internal, infectious, reproductive and surgical diseases of dogs and cats; has the knowledge of current methods of therapeutic management, indications and contraindications for the use of particular drugs, the methods for the prevention of the discussed diseases and has sufficient knowledge to report a compulsory notifiable disease to veterinary authorities</p> <p>Skills: Student is able to describe the etiologic agents of infectious diseases of dogs and cats and uses the knowledge on the subject to carry out preventive, diagnostic and therapeutic procedures; is able to carry out an interview and an appropriate analysis of clinical symptoms; knows the principles for choosing and interpreting results of laboratory and additional tests, and is able to formulate a diagnosis and take appropriate course of treatment of dogs and cats. Is able to accurately communicate with other veterinary doctors and animal owners</p> <p>Social competencies: Student is aware of the significance of social and professional responsibility for public health protection; is aware of his or her own limitations and is able to use the advice and help of specialised units or experienced veterinary doctors in the scope of the taken measures; understands that skill and knowledge building is a lifelong necessity</p>
Content of the programme module	<p>Etiology and pathogenesis of selected disease entities in dogs and cats. Methods for the management of patients and principles for the clinical examination of cats and dogs in the case(s) of:</p> <ul style="list-style-type: none"> - internal gastrointestinal, urinary, nervous, cutaneous and endocrine gland diseases; - surgery: diagnostics, operative treatment and post-operative rehabilitation of thoracic and abdominal organs and their integuments; - the locomotor system (traumatology); - diseases of the reproductive system. Physiology and pathology of pregnancy, identification of the female sex cycle, castration and sterilisation, contraception methods and hormonal therapy, mammary gland diseases, neonatal diseases in dogs and cats; - infectious diseases. Etiopathogenesis, clinical symptoms, differential diagnosis, diagnosis, control and prevention of bacterial, viral, fungal and prion diseases. Compulsory notifiable diseases of dogs and cats. Administrative procedure to eliminate and reduce the spread of the diseases. Laboratory and additional tests: indications, interpretation of test results. Methods of surgical and non-surgical treatment in the discussed disease entities.
Planned didactic forms/activities/methods	Lectures, recitation and laboratory classes, consultations, multimedia presentations, demonstration and description of clinical cases, supervision and correction of basic medical veterinary procedures, discussion, partial assessment, examination.

Name of the programme module	Food Hygiene of Animal Origin 2
Programme module type (obligatory/optional)	Obligatory
Year of studies for a given field	V
Term for a given field	X
ECTS credits together with contact/no contact hours division	5 (2.67/2.33)
A unit providing the course	Department of Hygiene of Food of Animal Origin
Module objective	Acquisition of knowledge and skills as regards health quality of food of animal origin with special regard of a) technology of meat processing, b) detailed requirements for products of animal origin other than meat products, c) rules for direct sales, marginal, local and restricted activity as well as the veterinary inspection over products of animal origin in trade, import and export, d) the rules for veterinary inspection procedures as regards food of inadequate health quality

Educational results	<p>Knowledge: Knowledge of the conditions and criteria for the health quality of food and the food of animal origin to the extent necessary to duly discharge the duties of sanitary and veterinary supervision. Understanding the rules of veterinary inspection of products of animal origin in trade, import and export, as well as supervision over direct sale and marginal, local and restricted activity. Knowledge of technologies allowing a hygienic processing of meat, meat preparations and meat products.</p> <p>Skills: Ability to determine the influence of technological processes on health quality of food of animal origin. Ability to select appropriate methods and techniques of testing products of animal origin other than meat, ability to describe and draw reasonable conclusions from the obtained results. Ability to implement the procedures of the official control of food of animal origin.</p> <p>Social competence: Awareness of the responsibility for the consumer's safety as regards the supervision, as well as an ability to formulate opinions as regards the occupation exercised. Understanding the need for continuing education in connection with the progress of science and technological advancement.</p>
Content of the programme module	The essence of the 'Food Hygiene of Animal Origin' programme module is to acquaint students with a) testing methods for food of animal origin, b) principles of the official supervision over the production and trade of food of animal origin, c) practical aspects of technology of meat processing.
Planned didactic forms/actions/methods	Lectures, laboratory classes, field classes in a meat processing plant and a cold store.

Name of the programme module	Diseases of birds 2
Programme module type (obligatory/optional)	Obligatory
Year of studies for a given field	V
Term for a given field	X
ECTS credits together with contact/no contact hours division	3 (2/1)
A unit providing the course	Veterinary Prevention and Birds' Diseases Department
Module objective	To make students know methods of treating birds' diseases and procedures for birds' diseases subject to official control in the EU countries. To make students know the specific and non-specific prophylaxis of poultry diseases.
Educational results	<p>Knowledge: Knows birds' diseases entities and their etiological factors, course, clinical symptoms and anatomopathological changes. Characterises laboratory methods, techniques and materials used in disease diagnostics. Understands instructions concerning design of birds' disease prevention programmes and application of medicinal products in treatment of birds' diseases</p> <p>Skills: Can collect information on a case, perform clinical and anatomopathological examination of a bird. Can draw up a communicable disease prophylaxis programme for a particular herd. Can interpret results of additional (laboratory) tests and use regulations concerning control of poultry communicable diseases.</p> <p>Social skills: Awareness of the risk for human health resulting from a contact with a diseased animal (bird) and can share knowledge with the academic researchers. Awareness of social, professional and ethical responsibility for one's own diagnostic and treatment actions taken on a living organism. Can provide information on necessary procedures and implemented therapy in a clear and plain way.</p>
Contents of the education module (a concise description consisting of approximately 100 words)	1. specific prophylaxis – vaccination programmes, types of vaccines used in the poultry industry and applied vaccination methods; 2. non-specific prophylaxis of poultry diseases – bio-security of herds; 3. methods of treating birds' diseases and application of medicinal products; 4. diagnostic procedures applied for birds' diseases
Planned didactic forms/activities/methods	Lectures, multimedia presentations, films, practical mastering of techniques of clinical and anatomopathological examination, laboratory diagnostics of parasite invasions and bacterial infections, discussion, laboratory class report

Name of the programme module	Administration and veterinary law
Programme module type (obligatory/optional) field	Obligatory
Year of studies for a given	V
Term for a given field	X
ECTS credits together with contact/no contact hours division	1 (1/0)
A unit providing the course	Department of Pathological Anatomy
Module objective	Shows the knowledge and skills that are necessary to correctly identify and interpret legislation governing the profession of a veterinary doctor and responsibility for the taken action and takes legal regulations regarding the subject of the action into consideration. Taking appropriate action in the case of the identification of a compulsory notifiable disease in an animal Student has a well-developed sense of respect for provisions of the written laws, particularly including the provisions governing the profession of a veterinary doctor.

Educational results	Knowledge: the student answers questions concerning the Polish law (the definition of law, civil law, criminal law, administrative law, the legal procedure) and the EU law, particularly including veterinary law
	Skills: the student enters into an informed discussion off his or her own initiative and answers questions concerning veterinary legislation
	Social competencies: the student takes appropriate action by interpreting legal regulations regarding veterinary medicine in a broad sense
Content of the programme module	Administration and veterinary law: basic aspects of the Polish law (the definition of law, civil law, criminal law, administrative law, the legal procedure) and the EU law, the analysis of legal regulations governing the functioning of the Polish Veterinary Inspection, animal treatment facilities, animal protection and animal health protection, the profession of a veterinary doctor and veterinary medical chambers; active participation in the classes by using the ability to enter into an informed discussion and answer questions concerning veterinary legislation; taking appropriate action by interpreting legal regulations regarding veterinary medicine in a broad sense.
Planned didactic forms/actions/methods	Multimedia lecture(www.wetgiw.gov.pl), Legal basis for clinical activity and documentation, seminar, discussion

Name of the programme module	Diseases farm animals – clinical training. Block I
Programme module type (obligatory/optional) field	Obligatory
Year of the study programme	V
Semester of the study programme	X
Number of ECTS points for contact and non-contact hours	2.0 credits for contact hours
A unit providing the course	Department of Epizootiology and Clinic of Infectious Diseases, Department and Clinic of Internal Diseases, Institute of Animal Breeding, Department of Animal Surgery, Faculty of Veterinary Medicine, University of Life Sciences in Lublin, Poland
Module objective	To master practical skills in the diagnosis and treatment of farm animals that are required to practice the profession of a veterinary doctor
Educational results	Knowledge:Gains the practical knowledge of diagnosis, prevention and therapy of animal diseases and the practical knowledge of occupational marketing
	Skills: Possesses the skills of: collecting interview data, carrying out a clinical examination in accordance with the plan of a clinical examination, performing in-depth analysis and correct interpretation of clinical symptoms, anatomopathological changes, laboratory and additional test results, formulating a diagnostic statement with consideration to a differential diagnosis and therapeutic and preventive procedures . Is able to choose and apply laboratory techniques, collect samples for tests, and analyse and interpret results of the tests in order to evaluate the health status of animals and their environment. Shows the skill of effective communication with customers, other veterinary doctors, staff members of supervising offices and bodies, and staff members of national and local authorities
	Social competencies: Observes the principles of professional ethics.Shows the skills of effective interpersonal communication and taking action under uncertain and stressful conditions
Content of the programme module	Restraining farm animals by or without the use of tools (screws, tethers, ropes, etc.) in order to carry out their examination and perform medical procedures; using a mouth gag, a probe. Restraining horses by physical and pharmacological means Measurement of temperature, pulse and respiration; rectal examination, orthopaedic examination Collection of samples for laboratory tests (collection of urine samples by the use of a catheter, jugular blood samples by the use of a vacutainer tube, collection of scrapings and hair samples for microbiological and parasitological tests) Collection of samples for the bacteriological test (swab from the nasopharyngeal cavity, the conjunctival sac, the reproductive tract, blood, urine, faeces, skin scrapings, hair, internal organ biopsy) Collection of samples for the virological test in living and dead animals (transport media) Non-invasive collection of tracheobronchial fluid Principles for the maintenance and transport of biological samples to the laboratory Evaluation of the health status of a neonate after birth Evaluation of immunological status based on quick field tests Evaluation of the biological quality of colostrum Auscultation of the chest and the abdominal cavity Evaluation of the degree of dehydration, fluid therapy
Planned didactic forms/activities/methods	Didactic methods: clinical training in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty, ambulance rides to farms (field experience)

Name of the programme module	
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	Diseases of horses – clinical training. Block I
Programme module type (obligatory/optional) field	obligatory
Year of the study programme	V
Semester of the study programme	X
ECTS credits together with contact/no contact hours division	2.0 credits for contact hours
A unit providing the course	Department of Epizootiology and Clinic of Infectious Diseases, Department and Clinic of Internal Diseases, Institute of Animal Breeding, Department of Animal Surgery, Faculty of Veterinary Medicine, University of Life Sciences in Lublin, Poland
Module objective	To master practical skills in horse disease diagnosis and treatment that are required to practice the profession of a veterinary doctor
Educational results	Knowledge:Gains the practical knowledge of diagnosis, prevention and therapy of animal diseases and the practical knowledge of occupational marketing
	Skills:Possesses the skills of: collecting interview data, carrying out a clinical examination in accordance with the plan of a clinical examination, performing in-depth analysis and correct interpretation of clinical symptoms, anatomopathological changes, laboratory and additional test results, formulating a diagnostic statement with consideration to a differential diagnosis and therapeutic and preventive procedures . Is able to choose and apply laboratory techniques, collect samples for tests, and analyse and interpret results of the tests in order to evaluate the health state of animals and their environment . Shows the skill of effective communication with customers, other veterinary doctors, staff members of supervising offices and bodies, and staff members of national and local authorities
	Social competencies: Observes the principles of professional ethics . Shows the skills of effective interpersonal communication and taking action under uncertain and stressful conditions
Content of the programme module	<p>Restraining horses by or without the use of tools (twitches, tethers, ropes) in order to carry out their examination and perform medical procedures, using a mouth gag</p> <p>Restraining horses by physical and pharmacological means</p> <p>Measurement of temperature, pulse and respiration, rectal examination, orthopaedic examination</p> <p>Collection of samples for general, microbiological and parasitological laboratory tests (collection of urine samples by the use of a catheter, jugular blood samples by the use of a vacutainer tube, collection of scrapings and hair samples for specific test purposes)</p> <p>Collection of samples for the bacteriological test (swab from the nasopharyngeal cavity, the conjunctival sac, the reproductive tract, blood, urine, faeces, skin scrapings, hair, internal organ biopsy)</p> <p>Collection of samples for the virological test in living and dead horses (transport media)</p> <p>Non-invasive collection of tracheobronchial fluid</p> <p>Principles for the maintenance and transport of biological samples to the laboratory</p> <p>Evaluation of the health state of a foal after birth</p> <p>Field-test based evaluation of the immunological state of a foal in the 24th hour after birth</p> <p>Evaluation of the biological quality of a mare's colostrum</p> <p>Auscultation of the chest and the abdominal cavity</p> <p>Evaluation of the degree of dehydration, fluid therapy</p> <p>Microscopic evaluation of the hair development phase and cytological preparations from the skin</p>
Planned didactic forms/activities/methods	Didactic methods: clinical training in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty

Name of the programme module	Diseases of dogs and cats – clinical training. Block I
Programme module type (obligatory/optional) field	Obligatory
Year of the study programme	V
Semester of the study programme	X
ECTS credits together with contact/no contact hours division	1.0 (1.0/0)
A unit providing the course	Department of Epizootiology and Clinic of Infectious Diseases, Department and Clinic of Internal Diseases, Institute of Animal Breeding, Department of Animal Surgery, Faculty of Veterinary Medicine, University of Life Sciences in Lublin, Poland
Module objective	To master practical skills in the diagnosis and treatment of dogs and cats that are required to practice the profession of a veterinary doctor
Educational results	Knowledge: Gains the practical knowledge of diagnosis, prevention and therapy of animal diseases and the practical knowledge of occupational marketing
	Skills: Possesses the skills of: collecting interview data, carrying out a clinical examination in accordance with the plan of a clinical examination, performing in-depth analysis and correct interpretation of clinical symptoms, anatomopathological changes, laboratory and additional (ECG, ultrasonography, x-ray, endoscopy) test results, formulating a diagnosis (including a differential diagnosis) and carrying out therapeutic and preventive procedures; Is able to choose and apply laboratory techniques, collect samples for tests, and analyse and interpret results of the tests in order to evaluate the health status of animals and their environment; Shows the skill of effective communication with customers, other veterinary doctors, staff members of supervising offices and bodies, and staff members of national and local authorities; has the skill of maintaining appropriate veterinary medical documentation
	Social competencies: Observes the principles of professional ethics; Shows the skills of effective interpersonal communication and taking action under uncertain and stressful conditions; Is aware of his or her own limitations and believes that lifelong knowledge and practical skill development is a necessity
Contents of the education module	Immobilisation / restraining of dogs and cats by the use of tools in order to carry out their examination and perform medical procedures Restraining dogs and cats by pharmacological means General physical examination and a detailed examination of organs/systems by means of watching, palpation, percussion, auscultation The ability to perform subcutaneous, intramuscular and intravenous injections Evaluation of the degree of dehydration, fluid therapy Basic preventive procedures in dogs and cats and hormonal contraception in dogs and cats Collection of samples for general, microbiological (bacteriological, virological, mycological) and parasitological laboratory tests in living and dead animals Principles for the maintenance, storage and transport of biological samples to the laboratory Evaluation of clinical morphotic changes on the skin, microscopic evaluation of the hair development phase and cytological preparations from the skin Preparation of instruments for surgery, preparation of the surgical field Preoperative and postoperative care of the patient Carrying out a detailed clinical examination of the reproductive system in dogs and cats (both in males and females) Diagnosis of the estrous cycle phase, determination of the optimal time for mating, diagnosis of pregnancy
Planned didactic forms/activities/methods	Didactic methods: clinical training in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty

Name of the programme module	Practice in Veterinary Inspection 2
Programme module type (obligatory/optional)	obligatory
Year of studies for a given field	V
Term for a given field	after the 10 th term
ECTS credits together with contact/no contact hours division	2 (1.5/0.5)
A unit providing the course	Department of Veterinary Medicine, Life Sciences University of Lublin
Module objective	The aim of the training is for the students to acquire abilities related to the scope of duties of official veterinary and sanitary supervision over meat processes, transportation, sale and production of other food types of animal origin.

Educational results	Knowledge: Knowledge of the criteria for health quality of food and the laboratory testing procedures for meat, meat products and other kinds of food of animal origin, to the extent necessary to duly discharge the duties of sanitary and veterinary supervision. Knowledge of meat processing technologies, as well as other raw materials and foodstuffs of animal origin; understanding of the principles of functioning of safety and quality assurance systems at every stage of production and distribution. Knowledge of the practical aspects of carrying out official control over food of animal origin.
	Skills: Ability to implement the procedures of the official control of food of animal origin together with the ability to aptly select testing methods for the aforementioned food. Ability to interpret and apply suitable regulations of the food law to the extent necessary to duly discharge the duties of sanitary and veterinary supervision over meat processing, as well as other raw materials of animal origin. Knowledge of record-keeping as regards the executed inspection.
	Social competence: Awareness of the responsibility for the consumer's safety as regards the supervision exercised. Ability to work in a team. Understanding the need for continuing education in connection with the progress of science and technological advancement.
Content of the programme module	The essence of the 'Practice of Veterinary Inspection' programme module is to acquaint students with the principles of the official supervision over the production of food of animal origin, The content of the programme module covers: a) acquaintance with the schemes of processing lines and main processing procedures in a company that processes meat and other foodstuffs of animal origin, b) acquaintance with the HACCP system in the aforementioned company and its correct implementation, c) acquaintance with cleaning, washing and disinfection of meat in companies that process food of animal origin, d) learning the principles of waste classification and utilisation, e) acquiring the scope of duties and tasks of an official veterinarian doctor as regards official supervision over food of animal origin; principles of record-keeping.
Planned didactic forms/actions/methods	Ongoing and period inspections (with the supervision of the official veterinary doctor) in establishments, discussion, keeping records of all activities in the Practice Journal

Name of the programme module	Clinical training 2 (after the X term)
Programme module type (obligatory/optional)	obligatory
Year of studies for a given field	V
Term for a given field	after the X th term
ECTS credits together with contact/no contact hours division	4 (3/1)
A unit providing the course	Department of Veterinary Medicine, Life Sciences University of Lublin
Module objective	The aim of the training is to acquaint students with the tasks, organisation, and functions of a veterinary clinic and broadening the knowledge of animal internal diseases, veterinary surgery, obstetrics, gynaecology and andrology, as well as animal communicable diseases. Should a doctor who oversees the students' training deem it appropriate, 2also radiology.
Educational results	Knowledge: The necessary knowledge for: conducting a clinical examination of animals according to the examination plan, an analysis of clinical symptoms, ability to diagnose and take therapeutic or prophylactic measures. Knowledge of principles and practical aspects of medical-veterinary procedures in animal clinics.
	Skills: Ability to complete medical history, conduct a clinical examination, analyse clinical symptoms, laboratory results, diagnose, take therapeutic and prophylactic measures. Ability to apply anaesthesia, the rules of asepsis and antisepsis and assist at basic surgical and gynaecological procedures performed on animals. Ability to select and apply laboratory techniques, take samples for examination and analyse and interpret the results of the examination. ability to prepare unambiguous case descriptions and keep records pursuant to the applicable law, in a form that is clear to the owner and other doctors.
	Social competence: Ability to form independent opinions, especially as regards diagnostics and therapies of animal diseases. Ability to cooperate and work in groups; sense of responsibility for other team members and patients. Awareness of the need for targeted further education and self-improvement with regard to their occupation
Content of the programme module	Medical records: acquainting with medical forms used at the clinic (case history, admission register, electronic registry of admissions and treatment), Organisation and administration: acquainting with the principles of work organisation in the place of training, acquainting with the patient registration and the registry system (admission register, electronic registry of admissions and treatment), acquainting

	<p>with the methods of supplying and general rules of maintaining a medicine and material storage facility (reception, distribution, storage and registry of medicines and materials).</p> <p>Internal diseases: conducting basic diagnostic activities, ability to conduct simple procedures (hypodermic intramuscular and intravenous injections, pleural cavity and peritoneum puncture, bladder catheterization, prostate infusions), acquainting with the medicines that are most frequently administered in clinical practice, results of additional examinations and their interpretation (morphological tests of blood and urine, biochemical tests of blood, gasometry, EKG), acquainting with methods of treatment for most frequently occurring internal conditions</p> <p>Veterinarian surgery: general and regional anaesthesia, applying wound dressings, performance of simple surgical procedures, – assisting at small surgical procedures (in general surgery, ophthalmology, orthopaedics and stomatology),</p> <p>Obstetrics and gynaecology: diagnostics of pregnancy and gynaecological conditions, performance of simple gynaecological procedures, assisting at small obstetrical procedures,</p> <p>Communicable diseases: methods of diagnostics for the most frequently occurring communicable diseases, the principles of prophylaxis for communicable diseases, Proceedings in the case of diseases treated ex officio.</p> <p>Radiology: principles of preparing a patient for a radiological ultrasonographic examination, interpretation of x-ray and ultrasonographic images</p>
Planned didactic forms/actions/methods	Completing medical history and conducting a clinical examination, discussion, reports of medical cases in the Practice Journal