



OPERATIVE SURGERY WITH THE BASICS OF TOPOGRAPHIC ANATOMY AND ANESTHESIOLOGY

specialty	211 - Veterinary medicine	compulsory nature of the discipline	mandatory
educational program	veterinary medicine	faculty	veterinary medicine
educational level	second (master's) degree	department	veterinary surgery and reproductive medicine

TEACHERS

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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Objective.	formation of the rules of correct surgery, anesthesia and free orientation in the operational field
Format.	lectures, laboratory and practical classes, independent work, individual assignments
Detailing learning outcomes and forms of their control	<ul style="list-style-type: none"> • Ability to use tools, special devices, instruments, research at the appropriate level, make informed decisions, evaluate and ensure the quality of work performed (GC2, GC 7, GC11, SC2, PLO1) / individual practical tasks • Ability to apply knowledge in practical situations, to understand and find out the peculiarities of the structure and functioning of the animal body, the ability to carry out obstetric and surgical measures and operations (GC2, GC 9, SC9, SC16) / individual practical tasks • Ability to comply with the rules of labor protection, asepsis and antisepsis during professional activities (SC3) / individual practical tasks • Ability to conduct clinical research to formulate conclusions about the condition of animals or to establish a diagnosis (GC2, SC4) / individual test tasks
Scope and forms of control	8 ECTS credits (240 hours): 30 hours of lectures, 60 hours of laboratory and practical classes; 120 hours of independent work, current control; final control - differentiated test, exam.
Teacher requirements	timely completion of tasks, activity, teamwork
Terms of enrollment	according to the curriculum

COMPLIANCE WITH THE EDUCATION STANDARD AND EDUCATIONAL PROGRAM

Competencies	GC 2 Ability to apply knowledge in practical situations; GC 7 Ability to conduct research at the appropriate level; GC 9 Ability to make informed decisions; GC 11 Ability to evaluate and ensure the quality of work performed; SC 2 Ability to use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations in the course of professional activity; SC 3 Ability to comply with the rules of labor protection, asepsis and antisepsis during professional activities; SC 4 Ability to conduct clinical research to formulate conclusions about the condition of animals or to establish a diagnosis; SC 9 Ability to perform obstetric and gynecological and surgical procedures and operations. SC16 Ability to protect the environment from pollution by livestock waste, as well as materials and veterinary products	Program learning outcomes	PLO 1 Know and correctly use the terminology of veterinary medicine
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STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. Prevention of surgical infection. Injections, infusions and blood transfusions

Lecture 1	Introductory lecture on operative surgery with the basics of topographic anatomy and anaesthesia	Practical training class 1	Introductory lesson	Independent work	<p>Methods of fixing large and small animals. Methods of fixation of zoo animals and birds. Medication preparation of animals for fixation.</p> <p>Means and devices used for capturing wild and domestic animals. The main elements of safety precautions when handling animals. Features of the defense response in different species of animals. Modern means of asepsis and antiseptics.</p> <p>Modern methods of sterilization of instruments, suture material, and medicines in the production environment.</p> <p>Modern methods of surgical hand antisepsis. Organization of surgical work in medical institutions and on livestock farms. Improving the technique of preparing the surgical field and the surgeon's hands in various ways before performing a surgical operation. Improvement of the technique of performing intradermal, subcutaneous, intramuscular, intravenous and other injections on living objects. Features of fixation and anaesthesia of zoo animals. Contraindications and complications of anaesthesia. Features of animal resuscitation. Anaesthesia of different types of farm animals. Modern narcotic drugs. Modern local anaesthetics. Their characteristics, doses, methods of use. Types of suture material. Their characteristics. Methods of use. Elements of plastic surgery. The concept of plastic surgery. Their types and characteristics. Modern materials used for the manufacture of pins, plates, orthopaedic wires, etc. in the performance of osteosynthesis. Modern suture materials used for tendon and nerve injuries and their characteristics. Tail exarticulation in different species of animals. Modern tools used in this operation. The technique of the operation. Development and improvement of the technique of tying surgical, marine and classical knots. Voluntary and involuntary dermatoplasty. Their purpose. Types and methods of performance.</p>
Lecture 2	Prevention of surgical infection		Fixation of agricultural animals		
Lecture 3,	Injections, infusions and bloodletting	PTC 4,5	Prevention of surgical infection		
Lecture 4-6	Anaesthesiology	PTC 6	Injections and infusions		
Lecture 7	Narcosis	PTC 7,8	Local anaesthesia. Epidural anaesthesia		
Lecture 8	Anaesthesia	PTC 9	Anaesthesia of agricultural animals. Premedication. Anaesthesia of agricultural animals		
Lecture 9	Desmurgia Elements of surgical operations	PTC 10	Elements of surgical operations		
Lecture 10	Operations on the head. Areas of skin inertia				

Chapter 2. Special part of operative surgery

Lecture 11	Surgeries in the ventral part of the neck.	PTC 11,12	Desmurgia	nd en	Different methods of anesthesia in small and large animals during operations in the head area. Their characteristics.
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Lecture 12	Operations in the chest area	PTC 13,14	Elements of surgical operations	Practice the technique of blockades in the head on live objects. Anatomical features of the structure in the ventral part of the neck in different species of animals. Features of esophagotomy in large animals. The modern concept of bandages, dressings and their application. Development of decortication techniques in young cattle. Modern types of dressings used for bone fractures in animals. A modern view of the use of adhesive bandages in the workplace. Technique of performing operations on the vessels in the veins of the tracheal region of the neck in large and small animals. Principles of intestinal suturing. Types of anastomoses.
Lecture 13	Operations in the abdomen	PTC 15,16	Surgery on the head	
Lecture 14	Operations on the genitourinary organs	PTC 17,18	Surgery on the head	
Lecture 15	Operations on the penis. Operations in the male perineum area	PTC 19,20	Operations in the neck area	
		PTC 21,22	Operations in the chest area	
		PTC 23,24	Operations in the abdomen	
		PTC 25	Operations on the genitourinary organs	
		PTC 26-29	Operations on the genitourinary organs. Castration of females (cows and heifers, pigs, bitches, cats). Operations in the male perineum area.	
		PTC 30	Surgeries on the thoracic and pelvic extremities	

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Main literature	<ol style="list-style-type: none"> 1. Magda I.I. Operative surgery with the basics of topographic anatomy and anesthesiology. K.: Higher school, 1995. 235 c. 2. Magda I.I. Workshop on operative surgery. K.: Higher school, 1993. 235c. 3. Vlasenko VM Dictionary of veterinary surgery terms / VM Vlasenko, LA Tikhoniuk. Bila Tserkva: Bila Tserkva State Agrarian University, 2008. 357 c. 4. Vlasenko V.M. Operative surgery, anesthesiology and topographic anatomy. Special part. Bila Tserkva: 2006. 544 c. 5. Vlasenko V.M. Operative surgery, anesthesiology and topographic anatomy. - General part. Bila Tserkva. 2006. 531 c 	Methodological support	<ol style="list-style-type: none"> 1. Materials of the discipline "Operative surgery with the basics of topographic anatomy and anesthesiology" for applicants for the second (master's) level of higher education in the specialty 211 Veterinary Medicine of full-time education in the system of educational web environment. URL: http://moodle.btu.kharkiv.ua/course/view.php?id=439 2. Sarbash DV, Slyusarenko DV, Sinyagovska KA, Zaika PA Methodical recommendations for conducting laboratory and practical classes in the course of general surgery for teachers and students of the 3rd year of the Faculty of Veterinary Medicine. KHDZVA 2018. - 46 c. 3. Sarbash DV, Slyusarenko DV, Sinyagovska KA, Zaika PA Methodical recommendations for conducting laboratory and practical classes in the course of special surgery for teachers and students of 3,4 courses of the Faculty of Veterinary Medicine. KHDZVA 2018. - 46 c. 4. Sarbash D.V., Slyusarenko D.V. Sinyagovska K.A., Zaika P.O. Methodical recommendations for clinical practice for 4th year students of the Faculty of Veterinary Medicine, specialty 6.110101 "Veterinary Medicine" Kh. KHDZVA. 2018. 16 c.
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EVALUATION SYSTEM			
	SYSTEM	Poins	ACTIVITIES BEING EVALUATED
Final assessment (differential test, exam)	100 points ECTS (standard)	to 100	40% - final testing 60% - current student work during the semester
Final assessment (nz)		to 100	100 % - average grade for the sections
Evaluating the section	100 points	to 30	30 % - answers to test questions
		to 30	30 % - result of mastering the block of independent work
		to 40	40 % - student activity in the classroom (oral answers)

NORMS OF ACADEMIC ETHICS AND INTEGRITY

All participants in the educational process (including students) must adhere to the Code of Academic Integrity and the requirements set forth in the Regulation "On Academic Integrity of Participants in the Educational Process of SBTU": to be disciplined, well-mannered, respect each other's dignity, show goodwill, honesty, and responsibility.