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WORKING COURSE SYLLABUS

Operative surgery with topographic anatomy

Recommended by the Methodological Council for the Education Field:

36.05.01 Veterinary medicine

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "**Operative surgery with topographic anatomy**" is to give future veterinarians theoretical knowledge, practical skills and skills in the technology of organizing and conducting surgical operations; theoretical knowledge, practical skills in choosing the optimal methods of surgical intervention and ways to prevent complications.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Operative surgery with topographic anatomy**" is aimed at creating the following competencies (parts of competencies) for students:

Code	Competence	Indicators of competence			
		accomplishment (within the discipline)			
UK -3	The ability to organize and	UK-3.1 Defines his role in the team based			
	manage the work of the team,	on the strategy of cooperation to achieve			
	developing a team strategy to	the goal;			
	achieve the goal.	UK-3.2 Formulates and takes into account			
		in its activities the peculiarities of the			
		behavior of groups of people, identified			
		depending on the goal;			
		UK-3.3 Analyzes the possible			
		consequences of personal actions and			
		plans his actions to achieve the desired			
		result;			
		UK-3.4 Exchanges information,			
		knowledge and experience with team			
		members;			
		UK -3.5 Argues his point of view			
		regarding the use of the ideas of other			
		team members to achieve the goal;			
		UK -3.6 Participates in team work on the			
		execution of assignments.			
GPC -4	The ability to use methods of	GPC-4.1 Possesses the conceptual and			
	solving problems using modern	methodological apparatus of basic natural			
	equipment in the development	sciences at a level sufficient for full-			
	of new technologies in	fledged professional activity at the			
	professional activity and to use	modern level.			
	modern professional	GPC-4.2 He knows the methods of			
	methodology for conducting	solving problems using modern			
	experimental research and	equipment.			

Table 2.1. List of competencies formed by students during the development of the discipline (results of the development of the discipline)

	interpreting their results.	GPC-4.3 He is ready to use modern
		methodology in the development and
		conduct of experimental research.
		GPC-4.4 Uses modern professional
		methodology in interpreting research
		results.
GPC -5	The ability to draw up special	GPC-5.1 Has the skills to search for the
	documentation, analyze the	necessary forms of documentation on
	results of professional activity	official websites and in specialized
	and submit accounting	databases.
	documents using specialized	GPC-5.2 Possesses professional
	databases.	terminology and skills in filling out
		analytical and reporting documents of a
		professional orientation.
		GPC-5.3 He is able to use specialized
		software to analyze the results of
		professional activity and comple
PC -11	Ability to develop a surgical	PC_11_1 Able to develop a surgical
10-11	operation plan including the	operation plan:
	choice of analgesia method	
	6	PC-11.2 He is able to choose and justify
		the optimal variant of anestnessa of the
		patient during surgery and in the
PC -12	The ability to perform surgical	PC_{-12} 1 He is able to prepare the
10-12	intervention in the body of	premises equipment and consumables
	animals in the treatment of	necessary for surgical intervention, taking
	various diseases, castration,	into account the requirements of asepsis
	sterilization, for cosmetic	and antiseptics.
	purposes.	PC-12.2 He is able to prepare the
		operating team for surgical intervention,
		taking into account the requirements of
		asepsis and antiseptics.
		PC-12.3 He is able to prepare the patient
		for surgical intervention, taking into
		account the requirements of asepsis and
		antiseptics.
		PC-12.4 He is able to assist the operating
		surgeon during surgical interventions.
		PU-12.5 He is capable of carrying out
		preventive and economic operations
		(including castration, denydration, etc.) in form onimals and companion onimals
		DC 12.6 He is companion animals.
		nerforming diagnostic and thereneutic
		operations in animals of different species
		taking into account the species, age and
		taking into account the species, age and

3. COURSE IN HIGHER EDUCATION

The discipline "**Operative surgery with topographic anatomy**" refers to the mandatory part of block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the discipline "**Operative surgery with topographic anatomy**".

Table 3.1. List of Higher Education Program components disciplines that contribute to expected learning outcomes

Competence	Competence	Previous Disciplines	Subsequent
code		(Modules)	Disciplines (Modules)
UK-3	Defines his role in the	Jurisprudence	Parasitology and
	team based on the	Life safety	invasive diseases
	strategy of cooperation		Epizootology and
	to achieve the goal;		infectious diseases
			Organization of
			veterinary business
			Mathematics
			Fundamentals of
			rhetoric and
			communication
			Introduction to the
			specialty
			Fundamentals of
			Economics and
			Management
			Veterinary sanitation
			Veterinary deontology
			Fundamentals of
			intellectual work
			Personality psychology
			and professional self-
			determination
			Fundamentals of social
			and legal knowledge
GPC -4	Possesses the	Inorganic and	Instrumental diagnostic
	conceptual and	analytical chemistry	methods
	methodological	Organic Chemistry	Toxicology
	apparatus of basic	Biological physics	Obstetrics, gynecology
	natural sciences at a	Computer science	and andrology
	level sufficient for full-	Physical and colloidal	Internal non-infectious
	fledged professional	chemistry	diseases
	activity at the modern	Cytology, histology	General surgery

	level.	and embryology Biological chemistry	Private Veterinary surgery
		microbiology and	invasive diseases
		mycology	Epizootology and
		Virology and	infectious diseases
		biotechnology	Mathematics
		Physiology and	Immunology
		ethology of animals	Veterinary sanitation
		Breeding with the	Medicinal and
		basics of private	poisonous plants
		animal husbandry	Forage plants
		Pathological	Fundamentals of
		physiology	intellectual work
			Personality psychology
		Radiobiology	and professional self-
		Pathological anatomy	Clinical laboratory
		T attionogical attatomy	diagnostics
			Laboratory diagnostics
			of infectious and
			invasive diseases
			Diseases of horses
			Diseases of productive
			animals
			Diseases of small pets
			Diseases of small pets
			Bee diseases and
			entomophages
			Fish pathology and
			Diseases of exotic
			animals
			Anesthesiology.
			intensive care and
			intensive care
			Dermatology
			Cardiology
			Endocrinology
			Nephrology
			Reconstructive and
			reconstructive surgery
			veterinary Onbthalmalacy
			Animal Dantistry
GPC -5	The ability to draw up	Veterinary genetics	Instrumental diagnostic
	special documentation	Computer science	methods
	analyze the results of	Breeding with the	Obstetrics, gynecology

	professional activity and submit accounting documents using specialized databases.	basics of private animal husbandry Clinical diagnosis Pathological anatomy	and andrology Internal non-infectious diseases Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Eorensic veterinary
			examination and autopsy of animals Veterinary deontology Economics and organization of agricultural production Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Veterinary and industrial laboratories with the basics of design Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology
PC -11	Ability to develop a surgical operation plan, including the choice of analgesia method.	Animal anatomy Veterinary microbiology and mycology Physiology and ethology of animals Pathological physiology Veterinary Pharmacology Pathological anatomy	Obstetrics, gynecology and andrology General surgery Private Veterinary surgery Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology

			Reconstructive and reconstructive surgery
PC -12	The ability to perform surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes.	Pathological anatomy	Obstetrics, gynecology and andrology Reconstructive and reconstructive surgery

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "**Operative surgery with topographic anatomy**" is 4 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering for <u>full-time</u> study

Types of academic activities		HOURS		Seme	esters	
			6	-	-	-
Contact academic hours		72	72	-	-	-
including						
Lectures	18	18	-	-	-	
Lab work	54	54	-	-	-	
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		62	62	-	-	-
Evaluation and assessment (exa	m/pass/fail	10	10	-	-	-
grading)						
	Academic	144	144	-	-	-
Course workload hour						
Course workloau	Credit	4	4	-	-	-
	unit					

Table 4.2. Types of academic activities during the period of the HE program mastering for <u>part-time</u> study

Types of academic activities	HOURS		Seme	esters	
Types of academic activities		7	-	-	-
Contact academic hours	36	36	-	-	-

including						
Lectures		18	18	-	-	-
Lab work		18	18	-	-	-
Seminars (workshops/tutorials)	-	-	-	-	-	
Self-study		88	88	-	-	-
Evaluation and assessment (exa	am/pass/fail	20	20	-	-	-
grading)						
	Academic	144	144	-	-	-
Course workload						
Course workloau	Credit	4	4	-	-	-
	unit					

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of academic work

Name of the discipline section	Content of the section (topics)	Types of academic activities
Section 1. General concepts and methods of operative surgery.	Topic 1.1 General concepts of operative surgery, (surgical clinic, surgical manipulations, surgical operation).	Lectures, Lab work.
	Topic 1.2 Fixation of animals, anesthesia, local anesthesia.	Lectures, Lab work.
	Topic 1.3 Surgical instruments.	Lectures, Lab work.
	Topic 1.4 Methods of asepsis and antiseptics in operative surgery.	Lectures, Lab work.
	Topic 1.5. Separation of tissues. Bleeding, types, methods of stopping.	Lectures, Lab work.
	Topic 1.6. General principles of surgical suture application.	Lectures, Lab work.
	Topic 1.7. Desmurgy.	Lectures, Lab work.
Section 2. Methods and features of surgical	Topic 2.1. Operational access.	Lectures, Lab work.
operations.	Topic 2.2. Operational techniques, types, methods, features.	Lectures, Lab work.
	Topic 2.3. Features of oncological operations. Principles of ablasty.	Lectures, Lab work.
	Topic 2.4. Connection of soft tissues. The final stage of the operation.	Lectures, Lab work.
	Topic 2.5. The connection of dense fabrics. Osteosynthesis.	Lectures, Lab work.

6. CLASSROOM INFRASTRUCTURE AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

Classroom for Academic Activity Type	Equipping the classroom	Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)
Lecture	An auditorium for conducting lecture- type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	surgical instruments
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	surgical instruments
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to an electronic information and educational environment.	_

7. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

- Shakurov M.S. Fundamentals of general veterinary surgery [Electronic resource] : Textbook / M.S. Shakurov. - 2nd ed., erased. - St. Petersburg : Publishing House "Lan", 2016. - 252 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=465067&idb=0
- 2. 2. Petrakov K.A. Salenko P.T. Paninsky S.M. Operative surgery with animal anatomy. -2nd ed. Moscow: KolosS, 2013. 453 p.
- 3. Semenov B. S., Videnin V. N., Nechaev A. Yu., Kuznetsova T. S., Guseva V. A. Operative surgery in animals 2021.-704 p. <u>https://e.lanbook.com/book/162365</u>

Additional Reading:

- Videnin V.N. Surgical treatment of abdominal wall defects in animals [Electronic resource] : Textbook / V.N. Videnin, B.S. Semenov. St. Petersburg : Publishing house "Lan", 2015. 224 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=465109&idb=0
- 2. Local anesthesia and methods of novocaine therapy of animals [Electronic resource] : Educational and methodical manual / A.F. Sapozhnikov [et al.]. St. Petersburg : Publishing House "Lan", 2011. 176 p. <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465268&id b=0</u>
- Semenov B.S. Practicum on operative surgery with the basics of topographic anatomy of domestic animals [Electronic resource] / B.S. Semenov, V.A. Ermolaev, S.V. Timofeev. - M. : KolosS, 2013. - 263 p. <u>http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=475874&idb=0</u>

Resources of the Internet information and telecommunication network:

1. Electronic library system of RUDN and third-party Electronic library systems to which university students have access on the basis of concluded contracts:

- Electronic library system of RUDN - ELS RUDN <u>http://lib.rudn.ru/MegaPro/Web</u>

- ELS "University Library online"<u>http://www.biblioclub.ru</u>
- ELS Yurayt http://www.biblio-online.ru
- ELS "Student Consultant"<u>www.studentlibrary.ru</u>
- ELS "Lan"<u>http://eZlanbook.com/</u>
- ELS "Trinity Bridge"<u>http://www.trmost.com/</u>
- 2. Databases and search engines:
- electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
- search engine Yandex https://www.yandex.ru/
- search engine Google <u>https://www.google.ru/</u>
- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

Educational and methodological materials for independent work of students during the development of the discipline/ module*:

- 1. A course of lectures on the discipline "Operative surgery with topographic anatomy".
- 2. Laboratory workshop on the discipline "Operative surgery with topographic anatomy".

* - All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the <u>Telecommunication educational and Information System!</u>

8. MID-TERM ASSESSMENT

Evaluation materials and a point-rating system^{*} for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "**Operative surgery with topographic anatomy**" are presented in the Appendix to this Work Program of the discipline.

* - Assessment Materials and a Point Rating System are formed based on the requirements of the relevant local regulatory act of the RUDN.

DEVELOPER:

Assistant of the Department of Veterinary Medicine		Rodionova N.Yu.
Position, Basic curriculum	Signature	Full name.
Senior Lecturer of the Department of Veterinary Medicine	Signature	Troshina N.I.
rositon, base currentum	Signature	Full hame.
HEAD OF THE DEPARTMENT:		
Department of Veterinary Medicine		Vatnikov Yu.A.
Name Basic Curriculum	Signature	Full name.
HEAD OF THE HIGHER EDUCATION PROC	GRAM:	
Director of the Department of Veterinary Medicine		Vatnikov Yu.A.
Position, Basic curriculum	Signature	Full name