

FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION  
OF HIGHER EDUCATION  
"ROSTOV STATE MEDICAL UNIVERSITY"  
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

*Faculty of Education of foreign students, residents and postgraduates*

CONFIRM

Supervisor  
educational program

  
\_\_\_\_\_/ E.S. Belousova /  
(signature) (FULL NAME.)

" 28 " Belousova 2020

**DISCIPLINE WORKING PROGRAM**

**TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY**

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don  
2020

## I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

**Target** mastering the academic discipline "Topographic anatomy and surgical Surgery" consists of anatomical and surgical training of students, necessary for subsequent studies at clinical departments and for independent medical practice.

### Tasks:

- students' acquisition of knowledge of topographic anatomy of regions, organs and systems, paying special attention to clinically important anatomical and functional features of childhood.
- developing in students the ability to apply the acquired topographical anatomical knowledge to substantiate the diagnosis, explain the peculiarities of the course of pathological processes, and solve diagnostic and surgical problems.
- students mastering elementary operational actions and some standard surgical techniques.

## II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The process of studying the discipline is aimed at developing the following competencies in the graduate:

ability to assess morphofunctional, physiological states and pathological processes in the human body to solve professional problems (OPK-7, OPK-9, OPK-11).

## III. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO

2.1. Academic discipline is basic

2.2. The formation of the above competencies is facilitated by the study of the following previous disciplines:

- in the cycle of humanitarian, social and economic disciplines, including: philosophy, bioethics, psychology and pedagogy, history of medicine, Latin;
- in the cycle of mathematical and natural science disciplines, including: physics and mathematics; medical informatics; chemistry; biology; biochemistry; normal anatomy; normal physiology; microbiology, virology; immunology;
- in the cycle of professional disciplines, including: propaedeutics of internal diseases; general surgery, life safety, disaster medicine.

2.3. The discipline "Topographic Anatomy and Operative Surgery" creates the prerequisites for the formation of these competencies by the disciplines:

- pathological anatomy, clinical pathological anatomy; medical rehabilitation; neurology, medical genetics, neurosurgery; otorhinolaryngology; ophthalmology; forensic Medicine; obstetrics and gynecology; pediatrics; propaedeutics of internal diseases, radiation diagnostics; faculty therapy, occupational diseases; hospital therapy, endocrinology; phthisiology; outpatient therapy; general surgery, radiation diagnostics; anesthesiology, resuscitation, intensive care; faculty surgery, urology; hospital surgery, pediatric surgery; dentistry; oncology, radiation therapy; traumatology, orthopedics.

## IV. CONTENT AND STRUCTURE OF DISCIPLINE

## The complexity of the discipline in 72 hour

### 4.1. Sections of the discipline studied in 5 semester

No. chapter A	Section name	Number of hours			
		Total	Contact Job		SRS*
			L	ETC	
Semester 5					
1	General issues topographical anatomy and operational surgery	8	1	2	5
2	Topographical anatomy and operational surgery limbs	25	5	14	6
3	Topographical anatomy and operational head surgery	eleven	2	4	5
4	Topographical anatomy and operational neck surgery	12	2	4	6
5	Topographical anatomy and operational breast surgery.	16	2	8	6
	Total for the semester	72	12	32	28
	Intermediate form certification	test with grade			
	<i>Total for the discipline:</i>	72	12	32	28

\* **SRS**- independent work of students **L**-lectures

**ETC**- practical classes (in disciplines in accordance with the curriculum, in includes clinical practical training)

### 4.2. Contact work

#### Lectures

No. chapter A	No. lectures And	Lecture topics	Qty hours
Semester 5			

2	1	Fundamentals of topographic anatomy and surgical surgery. Topographic anatomy of the upper and lower	2
2	2	Operations on blood vessels, nerves, tendons and purulent diseases of the extremities.	2
2	3	Amputations, disarticulations, operations on bones and joints. Topographic-anatomical rationale for operations on the chest wall and organs of the thoracic cavity	2
3	4	Topographic anatomy of the head	2
4	5	Topographic anatomy of the neck	2
4	6	Head and neck surgeries	2
Total hours per semester			12
<i>Total by discipline hours</i>			

### Practical work

No. chapter A	No. ETC	Topics of practical work	Qty hours	Forms current control
Semester 5				
1	1	Fundamentals of topographic anatomy and surgical surgery. General surgical technique. Surgical tools.	2	Original tested no Interviews
2	2	Topographical anatomy shoulder girdle, shoulder, shoulder and	2	Survey, tested
2	3	Topographical anatomy forearms and hands	2	Survey, tested
2	4	Topographical anatomy gluteal region, hips and	2	Survey, tested
2	5	Topographic anatomy of the knee, knee joint, front surface of the lower leg And rear	2	Survey, tested no
2	6	Operations on bones and joints and for purulent diseases of the extremities	2	Survey, tested
2	7	Operations on vessels nerves And tendons	2	Survey, tested
2	8	Amputations and disarticulations	2	Survey, tested
3	9	Topographic anatomy of the brain part of the head	2	Survey, tested
3	10	Topographic anatomy of the facial part of the head Operations on the head	2	Survey, tested
4	eleven	Topographic anatomy of the neck	2	Survey, tested
4	12	Neck surgeries	2	Survey, tested
5	13	Topographic anatomy of the thoracic	2	Survey

No. chapter A	No. ETC	Topics of practical work	Qty hours	Forms current control
5	14	Topographic anatomy of the thoracic cavity	2	Survey, tested
	15	Operations on the chest wall, pleura	2	Survey
5	16	Operative surgery of the mediastinum	2	Survey, tested
		Total hours per semester	32	
		<i>Total hours discipline:</i>	32	

### 4.3. Independent work of students

No. chapter A	Type of independent work of students	Number in hours	Shapes of the current control
Semester 5			
1	Preparation for classes, preparation for	4	Survey
2	Preparation for classes, preparation for current control	5	Survey, testing
3	Preparation for classes, preparation for current control	5	Survey, testing
4	Preparation for classes, preparation for current control	5	Survey, testing
5	Preparation for classes, preparation for current control	5	Survey, testing
	Total hours per semester	28	
	<i>Total hours discipline:</i>	28	

### V. ASSESSMENT FUND FOR CURRENT CONTROL, INTERMEDIATE CERTIFICATION

The fund of assessment tools for determining the level of development of competencies as a result of mastering the discipline is an appendix to the work program.

### VI. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF DISCIPLINE

#### 6.1. Main literature.

1. Topographic anatomy and operative surgery: volume 1.: textbook: [rec. UMO] for university students / V.I. Sergienko, E.A. Petrosyan, I.V. Frautschi; edited by Yu.M. Lopukhina. - 3rd ed., rev. – M.: GEOTAR-Media, 2010. – 831 p.
2. Topographic anatomy and operative surgery: volume 2: textbook: [rec. ULV] for

university students / V.I. Sergienko, E.A. Petrosyan, I.V. Frautschi; edited by Yu.M. Lopukhina. - 3rd ed., rev. – M.: GEOTAR-Media, 2010. – 589 p.

3. Operative surgery and topographic anatomy: a textbook for medical students: [rec. UMO] for university students / G.E. Ostroverkhov, Yu.M. Bomash, D.N. Lubotsky. - ed. 5th, rev. – M.: MIA, 2013. – 734 p.

## 6.2. Additional literature.

1. Topographic anatomy and operative surgery: a textbook for honey. universities / A.V. Nikolaev. – M.: GEOTAR-Media, 2007. - 784 p.

2. Topographic anatomy and operative surgery: a textbook for university students / A.V. Nikolaev. - 3rd ed., rev. and additional – M.: GEOTAR-Media, 2015. - 735 p.

3. Operative surgery and topographic anatomy: [Electronic resource] textbook for students of medical universities / O.P. Bolshakov, G.M. Semenov. – electron. data (1 file) 2nd ed. - St. Petersburg: Peter, 2012. - 960 p.

4. Operative surgery: textbook. manual on manual skills for university students / O. P. Bolshakov, A. A. Vorobyov, I.I. Kagan [etc.]; edited by A.A. Vorobyova, I.I. Kagan. – M.: GEOTAR-Media, 2015. - 687 p.

## 6.3. List of periodicals (archive):

ENDOSCOPIC SURGERY SURGERY. MAGAZINE  
named after. N.I. PIROGOV MEDICAL BULLETIN  
OF THE SOUTH OF RUSSIA BULLETIN OF  
SURGERY named after. I.I. GREKOVA ANNALS OF  
SURGERY

## 6.4 List of Internet resources

List of Internet resources for the 2020-2021 academic year

*The RPD should indicate only those Internet resources that will be used in the process of studying the discipline!*

	<b>ELECTRONIC EDUCATIONAL RESOURCES</b>	<b>Access to the resource</b>
1.	<b>Electronic library RostSMU.</b> – URL: <a href="http://109.195.230.156:9080/opacq/">http://109.195.230.156:9080/opacq/</a>	Access is not limited
2.	<b>Student Advisor:</b> EBS. – Moscow: LLC "IPUZ". -URL: <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>	Access is not limited
	<b>Doctor's consultant.</b> Electronic medical library: EBS. –	Access

3.	Moscow: LLC GC "GEOTAR". - URL: <a href="http://www.rosmedlib.ru">http://www.rosmedlib.ru</a>	is not limited
4.	<b>UpToDate</b> : DB /Wolters Kluwer Health. – URL: <a href="http://www.uptodate.com">www.uptodate.com</a>	Access is not limited
5.	<b>Consultant Plus</b> : reference legal system. -URL: <a href="http://www.consultant.ru">http://www.consultant.ru</a>	Access from university computers
6.	<b>Scientific electronic library eLIBRARY.</b> - URL: <a href="http://elibrary.ru">http://elibrary.ru</a>	Open access
7.	<b>National Electronic Library.</b> - URL: <a href="http://neb.rf/">http://neb.rf/</a>	Access from computers libraries
8.	<b>Scopus</b> /Elsevier Inc., Reed Elsevier. – Philadelphia: Elsevier BV, PA. – URL: <a href="http://www.scopus.com/">http://www.scopus.com/</a> <i>(National project)</i>	Access is not limited
9.	<b>Web of Science</b> / Clarivate Analytics. - URL: <a href="http://apps.webofknowledge.com">http://apps.webofknowledge.com</a> <i>(National project)</i>	Access is not limited
10.	<b>ScienceDirect. Freedom Collection</b> [magazines] /Elsevier. – URL: <a href="http://www.sciencedirect.com">www.sciencedirect.com</a> ByIP addresses of RostSMU. <i>(National project)</i>	Access is not limited
eleven.	<b>DB publishing houses Springer Nature.</b> - URL: <a href="http://link.springer.com">http://link.springer.com</a> ByIP addresses of RostSMU. <i>(National project)</i>	Access is not limited
12.	<b>Wiley Online Library</b> /John Wiley & Sons. - URL: <a href="http://onlinelibrary.wiley.com">http://onlinelibrary.wiley.com</a> by IP addresses of RostSMU. <i>(National project)</i>	Access from university computers
13.	<b>Single window of access to information resources.</b> - URL: <a href="http://window.edu.ru/">http://window.edu.ru/</a>	Open access
14.	<b>Russian education. Federal educational portal.</b> - URL: <a href="http://www.edu.ru/index.php">http://www.edu.ru/index.php</a>	Open access
15.	<b>ENVOС.RU English vocabulary</b> ]: educational site for English learners. language - URL: <a href="http://envoc.ru">http://envoc.ru</a>	Open access
16.	<b>Online dictionaries.</b> - URL: <a href="http://dic.academic.ru/">http://dic.academic.ru/</a>	Open access
17.	<b>WordReference.com</b> : online language dictionaries. -URL: <a href="http://www.wordreference.com/enru/">http://www.wordreference.com/enru/</a>	Open access
18.	<b>Federal Electronic Medical Library of the Russian Ministry of Health.</b> - URL: <a href="http://www.femb.ru/feml/">http://www.femb.ru/feml/</a> , <a href="http://feml.scsml.rssi.ru">http://feml.scsml.rssi.ru</a>	Open access
19.	<b>Medline</b> (PubMed, USA). – URL: <a href="https://www.ncbi.nlm.nih.gov/pubmed/">https://www.ncbi.nlm.nih.gov/pubmed/</a>	Open access
20.	<b>Free Medical Journals.</b> - URL: <a href="http://freemedicaljournals.com">http://freemedicaljournals.com</a>	Open access
21.	<b>Free Medical Books.</b> - URL: <a href="http://www.freebooks4doctors.com/">http://www.freebooks4doctors.com/</a>	Open access
22.	<b>CyberLeninka</b> : scientific electron. beep. - URL: <a href="http://cyberleninka.ru/">http://cyberleninka.ru/</a>	Open access
23.	Archive scientific magazines / NEICON. - URL: <a href="https://archive.neicon.ru/xmlui/">https://archive.neicon.ru/xmlui/</a>	Open access
24.	<b>Open access journals in Russian</b> /platformEIPub NEICON. – URL: <a href="https://elpub.ru/">https://elpub.ru/</a>	Open access
	<b>Medical Herald South Russia.</b> - URL:	Open

25.	<a href="https://www.medicalherald.ru/jour">https://www.medicalherald.ru/jour</a> or from the RostSMU website	access
26.	<b>World Health Organization.</b> - URL: <a href="http://who.int/ru/">http://who.int/ru/</a>	Open access
27.	<b>Evrika.ru</b> information and educational portal for doctors. - URL: <a href="https://www.evrika.ru/">https://www.evrika.ru/</a>	Open access
28.	<b>Med-Edu.ru:</b> medical video portal. - URL: <a href="http://www.med-edu.ru/">http://www.med-edu.ru/</a>	Open access
29.	<b>Univadis.ru:</b> international honey. portal. - URL: <a href="http://www.univadis.ru/">http://www.univadis.ru/</a>	Open access
thirty.	<b>DoctorSPB.ru:</b> information-reference portal about medicine. - URL: <a href="http://doctorspb.ru/">http://doctorspb.ru/</a>	Open access
31.	<b>Modern problems of science and education:</b> electron. magazine. - URL: <a href="http://www.science-education.ru/ru/issue/index">http://www.science-education.ru/ru/issue/index</a>	Open access
32.	<b>Rubricator of clinical recommendations</b> Ministry of Health of Russia. - URL: <a href="http://cr.rosminzdrav.ru/#/">http://cr.rosminzdrav.ru/#/</a>	Open access
33.	<b>Education on</b> Russian: portal / State. Institute of Russian language them. A.S. Pushkin. - URL: <a href="https://pushkininstitute.ru/">https://pushkininstitute.ru/</a>	Open access
	<b>Other</b> Open resources can be found at: <a href="http://rostgmu.ru">http://rostgmu.ru</a> → Library → Electronic catalogue → Open Internet resources → further by keyword...	

**Updated 08/25/2020**

### **6.5. Information help systems**

Consultant Plus [Electronic resource]: reference. legal system. – Access mode <http://www.consultant.ru/>

### **6.6. Guidelines for students on mastering the discipline**

Training consists of classroom lessons, including lectures and practical exercises, and independent work. The main educational time is allocated to practical work on the study of specific, particular sections of operative surgery and topographic anatomy (clinical anatomy of specific areas and organs, technique for performing the main stages of the operation). When studying the academic discipline “Topographic Anatomy and Operative Surgery” it is necessary to master practical skills:

1. Use general and special surgical instruments
2. Master the technique of layer-by-layer tissue dissection, making incisions in the skin, fascia, muscle, and parietal peritoneum.
3. Master the methods of layer-by-layer connection of tissues, apply sutures to the skin, aponeurosis, muscles, and parietal peritoneum.



4. Tie simple and surgical knots
5. Master the technique of removing skin sutures.
6. Perform various methods of temporarily and permanently stopping bleeding.
7. Master the technique of suturing a blood vessel.
8. Master the technique of suturing the tendon.
9. Suture the wound of the stomach, small and large intestine.
10. Suture the wound of parenchymal organs using hemostatic sutures. Practical

classes are conducted in the form of an interview with a teacher, demonstration of general operational techniques and the use of visual aids, solving situational problems, and answering test tasks.

In accordance with the requirements, active and interactive forms of conducting classes (lectures, solving situational problems, practicing practical skills) are widely used in the educational process. The share of classes conducted in interactive forms is at least (15%) of classroom classes.

Independent work of students involves preparing for classes, current and intermediate control, completing essays and includes working with textbooks, teaching aids, and mastering practical skills.

Working with educational literature is considered as a type of educational work in the discipline "Topographic Anatomy and Operative Surgery" and is performed within the hours allocated for its study (in the SRS section).

Each student is provided with access to the University's library collections.

*Methodological recommendations and criteria for evaluating an abstract*

An abstract is one of the forms of interpretation of the source text or several sources. Therefore, the abstract, unlike the synopsis, is a new, original text. Novelty in this case implies a new presentation, systematization of the material, a special author's position when comparing different points of view.

Abstracting involves presenting a question based on classification, generalization, analysis and synthesis of one or more sources.

Abstract specifics:

- does not contain detailed evidence, comparisons, reasoning, assessments,
- gives an answer to the question of what is new and significant contained in the text.

Abstract structure:

- 1) title page;
- 2) a work plan indicating the pages of each question, sub-question (item);
- 3) introduction;

4) textual presentation of the material, divided into questions and sub-questions (points, sub-paragraphs) with the necessary links to sources used by the author;

5) conclusion;

6) list of used literature;

7) applications that consist of tables, diagrams, graphs, drawings, diagrams (optional part of the abstract).

Applications are arranged sequentially, according to headings that reflect their content.

The abstract is assessed by the teacher based on the indicators and criteria for assessing the abstract established by the department.

Methodological recommendations have been developed for each section of the academic discipline "Topographic Anatomy and Operative Surgery" *for students* :

1. Kivva A.N. Clinical aspects of topographic anatomy of the shoulder joint: [rec. UMO] textbook. manual for students of medical universities / A.N. Kivva. - Rostov n/d:, 2014. – 59 p.

2. Kivva A.N. Clinical anatomy of the elbow joint: [rec. UMO] textbook. manual for students of medical universities / A.N. Kivva, Yu.V. Good. - Rostov n/d:, 2014. – 124 p.

3. Kivva A.N. A textbook for practical classes on topographic anatomy and operative surgery for students. pediatric fact / A.N. Kivva, Yu.V. Khoronko, O.P. Chernenko. - Rostov n/d: Publishing house RostGMU, 2014. – 102 p.

4. Kivva A.N. Tests on topographic anatomy and operative surgery: a textbook. Rostov n/d: Publishing house RostGMU, 2016. – 110 p.

5. Kivva A.N. A textbook for self-preparation of pediatric faculty students for practical classes on topographic anatomy of the lower extremities Rostov-on-Don. 2016. P.91.

6. Kivva A.N. Topographic anatomy of the lumbar region; methodological recommendations for students. / A.N. Kivva, Yu.S. Skorikova. - Rostov n/d:, 2008. P.24.

7. Chubovsky A.I. Technique of application and application of various types of intestinal suture Educational manual./ Chubovsky A.I., Khoronko Yu.V.-Rostov-on-Don, 2016.- 67 p.

## **VII. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE**

### **7.1. Educational and laboratory equipment.**

During the study of the subject, 6 classrooms and two lecture halls are used. The department has a variety of stands, models of the structure of individual topographic-anatomical areas, demonstration and everyday sets of surgical instruments, and anatomical preparations shared with the Department of Operative Surgery of the Faculty of Pedagogical Education and Teaching Staff. Cadaveric material is used for practical training.

### **7.2. Technical and electronic means.**

One of the lecture halls is equipped with a multimedia presentation complex (interactive multimedia AV speaker complex "Basis-2" interactive projector EIKI LC-XIP2610)

. The department also has a mobile multimedia complex (computer, projector, screen). Two classrooms are equipped with LCD wall panels for displaying electronic content. There are videos on operative surgery, a set of tables and multimedia lecture presentations, and test assignments on the topics being studied.