

**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

\_\_\_\_\_/ ES Belousova /

(signature) (FULL NAME.)

" \_\_\_\_ " \_\_\_\_\_ 20\_

**DISCIPLINE WORKING PROGRAM**

**NEW TECHNOLOGIES IN SURGERY**

Specialty 05/31/01 General medicine

Form of education full-time

**Rostov-on-Don  
2023**

## I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

1.1. **Target** mastering the discipline: developing students' theoretical knowledge and skills to diagnose surgical diseases, determine the method of their treatment and prevention, and form the foundations of clinical thinking in a future specialist.

1.2. **Tasks** studying the discipline:

Developing a treatment plan for a surgical disease or condition, taking into account diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care;

Prescription of drugs, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease and in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) for the provision of medical care, taking into account the standards of medical care;

Prescription of surgical treatment taking into account diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care;

Assessment of the effectiveness and safety of the use of drugs, medical products, medical nutrition and surgical treatment methods;

Providing palliative medical care (operations) in cooperation with medical specialists and other medical professionals; Organization of personalized treatment for a patient with surgical pathology, including pregnant women, elderly and senile patients, assessment of the effectiveness and safety of treatment.

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

The study of the discipline is aimed at developing competencies in accordance

with Federal State Educational Standards of Higher Education and EP of Higher Education in this specialty:

2. Professional: PC - 3.

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

3.1. The discipline belongs to the variable part.

## IV. CONTENT AND STRUCTURE OF DISCIPLINE

The labor intensity of the discipline is 3 - 2, hour - 72.

#### 4.1. Sections of the discipline studied in the 9th semester

No. section	Section name	Number of hours					
		Total	Contact Job				SRS
			L	WITH	ETC	LR	
Semester 9							
1	New technologies in surgery	72	12		32		28
Total for the semester		72	12		32		28
Interim certification form (test/test with assessment/exam)		test					
<i>Total for the discipline:</i>		72	12		32		28

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

**WITH**- seminars

**LR** -laboratory works **ETC**- practical lessons

#### 4.2. Contact work

##### Lectures

No. section	No. lectures	Lecture topics	Qty hours
Semester 9			
1	1	Current state and prospects for the development of surgery	2
1	2	Gastrointestinal bleeding. Modern methods of diagnosis and hemostasis	2
1	3	Laparoscopic hernioplasty	2
1	4	Laparoscopic antireflux operations for diseases of the diaphragm	2
1	5	Minimally invasive methods for treating chronic hemorrhoids	2
1	6	Bariatric surgery	2
Total for the semester hours			12
<i>Total hours discipline:</i>			12

### Seminars, practical work

No. section	No. seminar, ETC	Topics of seminars, practical work	Number in hours	Forms current control
Semester 9				
1	1	Current trends in the development of new technologies in surgery	3	Interview
1	2	Gastrointestinal bleeding. Modern methods diagnostics and hemostasis	3	Interview
1	3	Modern principles of treatment of portal hypertension syndrome	3	Interview
1	4	Laparoscopic hernioplasty	3	Interview
1	5	Laparoscopic fundoplication	2	Interview
1	6	Minimally invasive methods treatment chronic hemorrhoids	3	Interview
1	7	Disarterialization of hemorrhoids (HAL RAR)	2	Interview
1	8	Modern minimally invasive methods treatment of rectal fistulas	2	Interview
1	9	Transrectal endoscopic operations (TEO)	2	Interview
1	10	Laparoscopic operations at morbid obesity	3	Interview

No. section	No. seminar, ETC	Topics of seminars, practical work	Number in hours	Forms current control
1	eleven	Robot-assisted surgery	3	Interview
1	12	Laparoscopically assisted colon surgery	3	Interview
Total for the semester hours			32	
<i>Total hours discipline:</i>			32	

### 4.3. Independent work of students

No. section	Type of independent work of students	Number in hours	Shapes of the current control
Semester 9			
1	Preparation for classes	14	Interview
1	Preparation for current control	14	Interview
Total hours per semester		28	
<i>Total hours discipline:</i>		28	

## V. ASSESSMENT MATERIALS FOR CURRENT CONTROL, INTERMEDIATE CERTIFICATION (are an appendix to the work program).

### VI. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF DISCIPLINE

#### 6.1. Printed publications

1. Surgical diseases: textbook [rec. GBOU VPO First Moscow. state honey. University named after THEM. Sechenov] / ed. M.I. Cousin. – 4th ed., revised. and additional - M.: GEOTAR-Media, 2018. - 991 p. : ill.
2. **Kuzin, M.I. Surgical diseases [Electronic resource]:** textbook / M.I. Kuzin [and others]. - M.: GEOTAR-Media, 2020. - 1024 p. - EBS "Student Consultant" - Access mode: <https://www.studentlibrary.ru/book/ISBN9785970454381.html>
3. Procedures for providing medical care to the population of the Russian Federation. <https://www.rosminzdrav.ru/ministry/61/4/stranitsa-857/poryadki-okazaniya-meditsinskoy-pomoschi-naseleniyu-rossiyskoy-federatsii>
4. Approved standards of medical care. <https://www.rosminzdrav.ru/opendata/7707778246-utverzdenniestandartimeditsinskoipomoshi/visual>

5. Alekseev, S. A. Surgical diseases. Workshop = Surgical diseases. Practice book: textbook / S. A. Alekseev, M. N. Petrova. - Minsk: Higher School, 2020. - 222 s. - ISBN 978-985-06-3163-3. - Access from the EBS "Student Consultant". - Text: electronic.
6. Krylov, N. N. Surgical diseases: in 2 volumes: T. 1: textbook / ed. Krylova N. N. - Moscow: GEOTAR-Media, 2019. - 816 p. - ISBN 978-5-9704-5098-7. - Access from the EBS "Student Consultant". - Text: electronic.
7. Krylov, N. N. Surgical diseases: T. 2: textbook / ed. Krylova N.N. - Moscow: GEOTAR-Media, 2019. - 592 p. - ISBN 978-5-9704-5099-4. - Access from the EBS "Student Consultant". - Text: electronic.
8. Kuzin, M. I. Surgical diseases: textbook / M. I. Kuzin, N. M. Kuzin, V. A. Kubyshkin [etc.]. - 5th ed. , processed and additional - Moscow: GEOTAR-Media, 2022. - 1024 p. - ISBN 978-5-9704-7014-5. - Access from the EBS "Student Consultant". - Text: electronic.
9. Nurmakov, D. A. Surgical diseases / D. A. Nurmakov - Moscow: Litterra, 2017. - 640 p. - ISBN 978-5-4235-0240-9. - Access from the EBS "Student Consultant". - Text: electronic.
10. Savelyev, V. S. Surgical diseases. In 2 volumes. Volume 1: textbook / ed. V. S. Savelyeva, A. I. Kiriyyenko. - 2nd ed. , processed and additional - Moscow: GEOTAR-Media, 2017. - 720 p. - ISBN 978-5-9704-3998-2. - Access from the EBS "Student Consultant". - Text: electronic.
11. Savelyev, V. S. Surgical diseases. In 2 volumes. Volume 2: textbook / ed. V. S. Savelyeva, A. I. Kiriyyenko. - 2nd ed. , processed and additional - Moscow: GEOTAR-Media, 2017. - 688 p. - ISBN 978-5-9704-3999-9. - Access from the EBS "Student Consultant". - Text: electronic.
12. Surgical diseases. Guide to practical classes: textbook / ed. N.V. Merzlikina. - Moscow: GEOTAR-Media, 2023. - 840 p. - ISBN 978-5-9704-7315-3. - Access from the EBS "Student Consultant". - Text: electronic.

## 6.2. Internet resources

ELECTRONIC EDUCATIONAL RESOURCES					Access to the resource
	<b>Electronic library</b>	<b>RostSMU.</b>	-	URL: <a href="http://109.195.230.156:9080/opacq/">http://109.195.230.156:9080/opacq/</a>	Access is not limited
	<b>Student Advisor</b> [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"]: Electronic library system. - Moscow: Politekhresurs LLC. - URL: <a href="https://www.studentlibrary.ru">https://www.studentlibrary.ru</a> + opportunities for inclusive education				Access is not limited
	<b>Doctor's consultant. Electronic medical library:</b> Electronic library system. - Moscow: LLC "Higher School of Organization and Management of Healthcare. Comprehensive medical consulting." - URL: <a href="http://www.rosmedlib.ru">http://www.rosmedlib.ru</a> + opportunities for inclusive education				Access is not limited
	<b>Scientific electronic library</b>	<b>eLIBRARY.</b>	-	URL: <a href="http://elibrary.ru">http://elibrary.ru</a>	Open access
	<b>National Electronic Library.</b> - URL: <a href="http://neb.rf/">http://neb.rf/</a>				Access from computers libraries
	<b>Springer Nature database.</b> - URL: <a href="https://link.springer.com/">https://link.springer.com/</a> via IP addresses of RostSMU and remotely after registration, remotely via RFBR CIAS <a href="https://kias.rfbr.ru/reg/index.php">https://kias.rfbr.ru/reg/index.php</a> ( <i>National project</i> )				Access is not limited

	<b>Wiley Online Library</b> /John Wiley & Sons. - URL: <a href="http://onlinelibrary.wiley.com">http://onlinelibrary.wiley.com</a> ByIP addresses of RostSMU and remotely after registration( <i>National project</i> )	Access limited
	<b>Wiley. Full-text collection of electronic journals Medical Sciences Journal Backfile:</b> archive. -URL: <a href="https://onlinelibrary.wiley.com/">https://onlinelibrary.wiley.com/</a> ByIP addresses of RostSMU and remotely after registration( <i>National project</i> )	Indefinite subscription
	<b>Sage Publication:</b> [full text collection of e-books eBook Collections]. - URL: <a href="https://sk.sagepub.com/books/discipline">https://sk.sagepub.com/books/discipline</a> By IP addresses of RostSMU( <i>National project</i> )	Indefinite subscription
	<b>Ovid Technologies:</b> [Full-text archived collection of journals Lippincott Williams and Wilkins Archive Journals]. - URL: <a href="https://ovidsp.ovid.com/autologin.cgi">https://ovidsp.ovid.com/autologin.cgi</a> by IP addresses of RostSMU ( <i>National project</i> )	Indefinite subscription
	<b>Questel database Orbit Premium edition:</b> database patent search <a href="http://www.orbit.com/">http://www.orbit.com/</a> ByIP addresses of RostSMU ( <i>National project</i> )	Access limited
	<b>Wiley:</b> official website; chapter "Open Access"/John Wiley & Sons. - URL: <a href="https://authorservices.wiley.com/open-research/open-access/browse-journals.html">https://authorservices.wiley.com/open-research/open-access/browse-journals.html</a>	Content open access
	<b>Russian education. Single window of access:</b> federal portal.-URL: <a href="http://www.edu.ru/">http://www.edu.ru/</a> .- New educational environment.	Open access
	<b>Federal Center for Electronic Educational Resources.</b> - URL: <a href="http://srtv.fcior.edu.ru/">http://srtv.fcior.edu.ru/</a>	Open access
	<b>Electronic Library of the Russian Foundation for Basic Research(RFBR).</b> -URL: <a href="http://www.rfbr.ru/rffi/ru/library">http://www.rfbr.ru/rffi/ru/library</a>	Open access
	<b>Federal Electronic Medical Library of the Russian Ministry of Health.</b> - URL: <a href="https://femb.ru/femb/">https://femb.ru/femb/</a>	Open access
	<b>Cochrane Library:</b> official website ; chapter "Open Access". - URL: <a href="https://cochranelibrary.com/about/open-access">https://cochranelibrary.com/about/open-access</a>	Content open access
	<b>Cochrane Russia :</b> Russian department Cochrane cooperation/RMANPO. - URL: <a href="https://russia.cochrane.org/">https://russia.cochrane.org/</a>	Content open access
	<b>Webmedinfo.ru:</b> website [open information and educational medical resource]. - Moscow. - URL: <a href="https://webmedinfo.ru/">https://webmedinfo.ru/</a>	Open access
	<b>Univadis from Medscape:</b> international honey. portal. -URL: <a href="https://www.univadis.com/">https://www.univadis.com/</a> [Regularly updated database of unique information and educational medical resources].	Free registration
	<b>Med-Edu.ru:</b> medical educational video portal. -URL: <a href="http://www.med-edu.ru/">http://www.med-edu.ru/</a> .Free registration.	Open access
	<b>Doctor's world:</b> professional portal [information resource for doctors and students]. - URL: <a href="https://mirvracha.ru">https://mirvracha.ru</a> .	Free registration
	<b>DoctorSPB.ru:</b> information-reference portal about medicine [for students and doctors]. - URL: <a href="http://doctorspb.ru/">http://doctorspb.ru/</a>	Open access
	<b>BEARWEST :</b> Russian doctor portal [library, database knowledge]. - URL: <a href="https://medvestnik.ru">https://medvestnik.ru</a>	Open access
	<b>PubMed:</b> electronic search engine [for biomedical research from the National Center for Biotechnology Information (NCBI, USA)]. - URL: <a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a>	Open access
	<b>Cyberleninka Open Science Hub:</b> open scientific electronic	Content open

	library of publications in foreign languages. – URL: <a href="https://cyberleninka.org/">https://cyberleninka.org/</a>	that access
	<b>Scientific heritage of Russia: eelectronic library /</b> MSC RAS.- URL: <a href="http://www.e-heritage.ru/">http://www.e-heritage.ru/</a>	Open access
	<b>Presidential Library:</b> website. -URL: <a href="https://www.prilib.ru/collections">https://www.prilib.ru/collections</a>	Open access
	<b>SAGE Openaccess:</b> open access resources /Sage Publications. – URL: <a href="https://uk.sagepub.com/en-gb/eur/open-access-at-sage">https://uk.sagepub.com/en-gb/eur/open-access-at-sage</a>	Content open that access
	<b>EBSCO &amp; Open Access:</b> open access resources. –URL: <a href="https://www.ebsco.com/open-access">https://www.ebsco.com/open-access</a>	Content open that access
	<b>Lvrach.ru:</b> honey. scientific-practical portal [largest prof. resource for doctors and medical community, created on the basis of scientific and practical. magazine "Attending Physician"]. - URL: <a href="https://www.lvrach.ru/">https://www.lvrach.ru/</a>	Open access
	<b>ScienceDirect:</b> official website; chapter "Open Access"/Elsevier. - URL: <a href="https://www.elsevier.com/open-access/open-access-journals">https://www.elsevier.com/open-access/open-access-journals</a>	Content open access
	<b>Taylor &amp; Francis. Dove Medical Press. Open access journals:</b> open access journals.– URL: <a href="https://www.tandfonline.com/openaccess/dove">https://www.tandfonline.com/openaccess/dove</a>	Content open access
	<b>Taylor &amp; Francis. Open access books:</b> open access books. – URL: <a href="https://www.routledge.com/our-products/open-access-books/taylor-francis-oa-books">https://www.routledge.com/our-products/open-access-books/taylor-francis-oa-books</a>	Content open access
	<b>Thieme. Open access journals:</b> open access journals/Thieme Medical Publishing Group. – URL: <a href="https://open.thieme.com/home">https://open.thieme.com/home</a>	Content open that access
	<b>Karger Open Access:</b> open access journals/S. Karger AG. – URL: <a href="https://www.karger.com/OpenAccess/AllJournals/Index">https://www.karger.com/OpenAccess/AllJournals/Index</a>	Content open that access
	<b>Archive scientific magazines / NP NEICON.</b> - URL: <a href="https://arch.neicon.ru/xmlui/">https://arch.neicon.ru/xmlui/</a>	Open access
	<b>Russian doctor:</b> website [news for doctors and medical archive. magazines]/ Publishing House "Russian Doctor". - URL: <a href="https://rusvrach.ru/">https://rusvrach.ru/</a>	Open access
	<b>Directory of Open Access Journals:</b> [full text journals121 countries of the world, incl. in medicine, biology, chemistry]. - URL: <a href="http://www.doaj.org/">http://www.doaj.org/</a>	Open access
	<b>Free Medical Journals.</b> - URL: <a href="http://freemedicaljournals.com">http://freemedicaljournals.com</a>	Open access
	<b>Free Medical Books.</b> - URL: <a href="http://www.freebooks4doctors.com">http://www.freebooks4doctors.com</a>	Open access
	<b>International Scientific Publications.</b> -URL: <a href="http://www.scientific-publications.net/ru/">http://www.scientific-publications.net/ru/</a>	Open access
	<b>Eco-Vector:</b> portal of scientific journals/IT platform of the Russian group of companies "ECO-Vector". - URL: <a href="http://journals.eco-vector.com/">http://journals.eco-vector.com/</a>	Open access
	<b>Medline.Ru:</b> scientific biomedical journal : online electronic edition. - URL: <a href="http://www.medline.ru">http://www.medline.ru</a>	Open access
	<b>Medical Bulletin of the South of Russia:</b> electron. magazine/RostSMU. - URL: <a href="http://www.medicalherald.ru/jour">http://www.medicalherald.ru/jour</a>	Open access
	<b>Categories</b> clinical recommendations of the Russian Ministry of Health. -URL: <a href="https://cr.minzdrav.gov.ru/">https://cr.minzdrav.gov.ru/</a>	Open access
	<b>Ministry of Health of the Russian Federation:</b> official website. - URL: <a href="https://minzdrav.gov.ru">https://minzdrav.gov.ru</a>	Open access
	<b>World Health Organization:</b> official website. -URL:	Open



	<a href="http://who.int/ru/">http://who.int/ru/</a>	access
	<b>Ministry of Science and Higher Education</b> Russian Federation: official website. - URL: <a href="http://minobrnauki.gov.ru/">http://minobrnauki.gov.ru/</a> ( <a href="#">Yandex search engine</a> )	Open access
	<b>Modern problems of science and education:</b> electron. magazine. Network publication.- URL: <a href="http://www.science-education.ru/ru/issue/index">http://www.science-education.ru/ru/issue/index</a>	Open access
	Dictionaries <b>And encyclopedias on Academician.</b> - URL: <a href="http://dic.academic.ru/">http://dic.academic.ru/</a>	Open access

### 6.3. Guidelines for students on mastering the discipline

1. Sapronova, Natalia Germanovna. Portal hypertension: principles of diagnosis and surgical treatment: a textbook for medical students. universities / N. G. Sapronova; Height. state honey. university, department surgical diseases No. 1. - Rostov-on-Don: RostSMU, 2019. - 119 p. : ill. – Access from RostSMU Electronic Library. – Text: electronic.
2. Hospital-substituting technologies in the treatment of patients with trophic ulcers of the lower extremities: a textbook [for students of medical universities] / Igor Ivanovich Katelnitsky, Ivan Ivanovich Katelnitsky, Stanislav Viktorovich Lukyanov, Ekaterina Sergeevna Livadnyaya; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2020. – 114 p. : ill., table. – Access from RostSMU Electronic Library. – Text: electronic.