

**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

Goals 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.

Tasks:

- students' mastery of etiology, pathogenesis, clinical signs, treatment and prevention of surgical diseases;
- students mastering the principles of diagnostics of surgical diseases that cause life-threatening complications and concomitant diseases;
- training students to correctly make a preliminary diagnosis and refer the patient for examination;
- training students in the diagnosis of acute pathology in surgical patients.

II. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO

2.1. The academic discipline is variable;

2.2. To study this academic discipline, you need knowledge, skills and knowledge formed by the following previous disciplines:

- *Topographic anatomy and operative surgery;*
- *General surgery;*
- *Faculty surgery;*
- *Hospital surgery.*

2.3. List of subsequent academic disciplines that require knowledge, skills and knowledge formed by this academic discipline:

- *postgraduate professional training in specialty 08/31/67 – surgery;*
- *educational program of postgraduate professional education 3.1.9. – surgery.*

III. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The process of studying the discipline is aimed at developing the following competencies in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

professional (PC): *ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, Revision X (PC-6).*

As a result of mastering the discipline, the student must:

Know: etiology, pathogenesis and preventive measures for the most common surgical diseases; clinical picture of these diseases and their complications; modern methods of clinical, laboratory and instrumental examination of patients; methods of treatment, indications for their use; deontological aspects in surgery.

Be able to: collect anamnesis, conduct a general clinical examination of patients with surgical diseases; analyze data from general clinical examination; draw up a plan for the use of laboratory and instrumental methods for examining the patient; analyze data from laboratory and instrumental research methods; formulate a detailed clinical diagnosis, justify it on the basis of a differential diagnosis; formulate indications for conservative and surgical treatment; perform the most common medical procedures.

Own: diagnose the disease; draw up a plan for examining the patient with

this disease; determine the profile of the medical institution where the patient should be sent for further examination and treatment; evaluate the results of laboratory research methods; diagnose the presence of typical diseases on radiographs, scanograms, ultrasonograms, computed tomograms.

IV. CONTENT AND STRUCTURE OF DISCIPLINE The complexity of the discipline is 3 - 3, hour - 108

4.1. Sections of the discipline studied in the XI semester

No. chapter A	Section name	Number of hours					
		Total	Contact Job				SRO*
			L	WITH	ETC	LR	
Semester XI							
1	New technologies in surgery	108	16	-	48	-	44
	Interim certification form (test/ test with assessment/exam)	test					
	<i>Total:</i>	108	16	-	48	-	44

* SRO- independent work of students L- lectures

WITH- seminars (in disciplines in accordance with the standard and RUP)

LR -laboratory work (in disciplines in accordance with the curriculum)

ETC- practical classes (in disciplines in accordance with the curriculum, they include clinical practical classes)

4.2. Contact work

Lectures

No. section	No. lectures	Lecture topics	Qty hours
Semester XI			
1	1	Current state and prospects for the development of surgery	2
	2	Gastrointestinal bleeding. Modern methods of diagnosis and hemostasis	2
	3	Laparoscopic hernioplasty	2
	4	Laparoscopic antireflux operations for diseases of the diaphragm	2
	5	Minimally invasive methods for treating chronic hemorrhoids	2
	6	Bariatric surgery	2
	7	Robotics in medicine	2
	8	Laparoscopic surgery for colon cancer	2

<i>Total hours</i>	16
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Seminars, practical work

No. section	No. seminar, ETC	Topics of seminars, practical work	Number in hours	Forms current control
Semester XI				
1	1	Modern trends development new technologies in surgery	4	TR
	2	Gastrointestinal bleeding. Modern methods of diagnosis and hemostasis	4	TR
	3	Modern principles of treatment of portal hypertension syndrome	4	TR
	4	Laparoscopic hernioplasty	4	TR
	5	Laparoscopic fundoplication	4	TR
	6	Minimally invasive methods for treating chronic hemorrhoids	4	TR
	7	Disarterialization of hemorrhoids (HAL RAR)	4	TR
	8	Modern minimally invasive methods of treating rectal fistulas	4	TR
	9	Transrectal endoscopic operations <small>(feasibility study)</small>	4	TR
	10	Laparoscopic surgery for morbid obesity	4	TR
	eleven	Robot-assisted surgery	4	TR
	12	Laparoscopically assisted colon surgery	4	TR
<i>Total hours</i>			48	

Forms of current control

1. Theoretical analysis of the topic (TR);
2. Clinical analysis (including in the ward) (CR);

4.3. Independent work of students

No. chapter A	Type of independent work of students	Co. l- in hour ov	Forms current control
Semester XI			WITH
1	Preparation for classes	32	
	Preparation for current control	12	
<i>Total hours</i>		44	

Forms of current and intermediate control

1. Theoretical analysis of the topic (TR);
2. Clinical analysis (including in the ward) (CR);
3. Test control of knowledge according to monitoring and training programs (TC);
4. Solving situational problems (SZ);
5. Interview on control questions (C).

4.4. List of educational and methodological support for independent work students

1. 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.
2. 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.
3. 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.
4. Kuzin, M. I. Surgical diseases: textbook / M. I. Kuzin, N. M. Kuzin, V. A. Kubyskin [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.
5. 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.
6. 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.
7. 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.
8. 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.

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. 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-meditsinskoypomoshchinaseleniyu-rossiyskoy-federatsii>
4. Approved standards of medical care. <https://www.rosminzdrav.ru/opendata/7707778246-utverzdenniestandartimeditsinskoipomoshi/visual>

6.2. additional literature

1. Schiff Eugene R. Introduction to hepatology / Eugene R. Schiff; lane from English ed. V.T. Ivashkina, A.O. Bueverova, M.V. Mayevskaya. – M.: GEOTAR-Media, 2011. – 698 p. 2. TIPS/TIPS (transjugular intrahepatic portosystemic shunting) and treatment of varicose esophageal-gastric bleeding: monograph / Khoronko Yu.V., Cherkasov M.F., Polyak M.I., Baranov Yu.E. – M.: Pharm-Sintez, 2013. - 242 p.
3. Tretyakov A.A. Microsurgical interorgan anastomoses in abdominal surgery / A.A. Tretyakov, I.I. Kagan. - Orenburg: Publishing house. Center OGAU, 2012. – 250 p.

6.3. Internet resources

ELECTRONIC EDUCATIONAL RESOURCES				Access to the resource
Electronic library	RostSMU.	-	URL: http://109.195.230.156:9080/opacq/	Access is not limited
Student Advisor [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"]: Electronic library system. – Moscow: Politekhresurs LLC. - URL: https://www.studentlibrary.ru + opportunities for inclusive education				Access is not limited
Doctor's consultant. Electronic medical library: Electronic library system. – Moscow: LLC "Higher School of Organization and Management of Healthcare. Comprehensive medical consulting." - URL: http://www.rosmedlib.ru + opportunities for inclusive education				Access is not limited
Scientific electronic library	eLIBRARY.	-	URL: http://elibrary.ru	Open access
National Electronic Library. - URL: http://neb.rf/				Access from computers libraries

	Springer Nature database. - URL: https://link.springer.com/ via IP addresses of RostSMU and remotely after registration, remotely via RFBR CIAS https://kias.rfbr.ru/reg/index.php (National project)	Access is not limited
	Wiley Online Library /John Wiley & Sons. - URL: http://onlinelibrary.wiley.com via IP addresses of RostSMU and remotely after registration(National project)	Access limited
	Wiley. Full-text collection of electronic journals Medical Sciences Journal Backfile: archive. -URL: https://onlinelibrary.wiley.com/ via IP addresses of RostSMU and remotely after registration(National project)	Indefinite subscription
	Sage Publication: [full text collection of e-books eBook Collections]. - URL: https://sk.sagepub.com/books/discipline by IP addresses of RostSMU(National project)	Indefinite subscription
	Ovid Technologies: [Full-text archived collection of journals Lippincott Williams and Wilkins Archive Journals]. - URL: https://ovidsp.ovid.com/autologin.cgi by IP addresses of RostSMU (National project)	Indefinite subscription
	Questel database Orbit Premium edition: database patent search http://www.orbit.com/ by IP addresses of RostSMU (National project)	Access limited
	Wiley: official website; chapter "Open Access"/John Wiley & Sons. - URL: https://authorservices.wiley.com/open-research/open-access/browse-journals.html	Content open access
	Russian education. Single window of access: federal portal.-URL: http://www.edu.ru/ .- New educational environment.	Open access
	Federal Center for Electronic Educational Resources. - URL: http://srtv.fcior.edu.ru/	Open access
	Electronic Library of the Russian Foundation for Basic Research(RFBR). -URL: http://www.rfbr.ru/rffi/ru/library	Open access
	Federal Electronic Medical Library of the Russian Ministry of Health. - URL: https://femb.ru/femb/	Open access
	Cochrane Library: official website ; chapter "Open Access". - URL: https://cochranelibrary.com/about/open-access	Content open access
	Cochrane Russia : Russian department Cochrane cooperation/RMANPO. - URL: https://russia.cochrane.org/	Content open access
	Webmedinfo.ru: website [open information and educational medical resource]. - Moscow. - URL: https://webmedinfo.ru/	Open access
	Univadis from Medscape: international honey. portal. -URL: https://www.univadis.com/ [Regularly updated database of unique information and educational medical resources].	Free registration
	Med-Edu.ru: medical educational video portal. -URL: http://www.med-edu.ru/ .Free registration.	Open access
	Doctor's world: professional portal [information resource for doctors and students]. - URL: https://mirvracha.ru .	Free registration
	DoctorSPB.ru: information-reference portal about medicine [for students and doctors]. - URL: http://doctorspb.ru/	Open access
	BEARWEST :Russian doctor portal [library, database knowledge]. - URL: https://medvestnik.ru	Open access
	PubMed: electronic search engine [for biomedical	Open

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

	website. - URL: https://minzdrav.gov.ru	access
	World Health Organization: official website. -URL: http://who.int/ru/	Open access
	Ministry of Science and Higher Education Russian Federation: official website. - URL: http://minobrnauki.gov.ru/ (search engine Yandex system)	Open access
	Modern problems of science and education: electron. magazine. Online publication. - URL: http://www.science-education.ru/ru/issue/index	Open access
	Dictionaries And encyclopedias on Academician. - URL: http://dic.academic.ru/	Open access

6.4. Software, information help systems

Consultant Plus [Electronic resource]: reference. legal system. – Access mode: <http://www.consultant.ru> [03/06/2018].

6.5. 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