

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 /
(FULL NAME.)

(signature)

20.05.2023

DISCIPLINE WORKING PROGRAM

GENERAL SURGERY

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don
2023

I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

Purpose mastering the discipline “General Surgery” is to form students’ understanding of the main directions of surgical work: compliance with the rules of asepsis and antisepsis when performing surgical operations, stopping bleeding and compensating for blood loss; training students in the basic principles of diagnosis and treatment of the most common surgical diseases and first aid in emergency conditions.

Tasks studying the discipline “General Surgery” is teaching students:

- purposefully find out the patient’s complaints and the history of the development of the disease, conduct physical examinations of the surgical patient (examination, palpation, percussion, auscultation), outline a plan for examining the surgical patient;
- organize surgical activities in compliance with aseptic rules in the premises of a surgical hospital and clinic;
- determine the main surgical syndromes and diagnose the main types of purulent-septic diseases (etiology, pathogenesis, classification, clinical picture, basic principles of diagnosis and treatment of the most common surgical diseases) in accordance with the standards of medical care approved by the Ministry of Health of the Russian Federation;
- training students to provide first aid in the event of emergency conditions in accordance with the standards of medical care approved by the Ministry of Health of the Russian Federation;
- familiarizing students with the principles of organization and operation of medical and preventive institutions of various types;
- developing skills in studying scientific literature and official statistical reviews;
- formation of communication skills with patients, taking into account ethics and deontology, depending on the identified pathology and characterological characteristics of patients;
- developing student communication skills with the team.

II. 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:

b) general professional (OPK):

OPK-5 ability and willingness to analyze the results of one’s own activities to prevent professional errors

OPK-6 readiness to maintain medical records

OPK-8 readiness for medical use of drugs and other substances and their combinations in solving professional problems

OPK-11 readiness for the use of medical devices provided for in the procedures for providing medical care

c) professional (PC):

PC-1 ability and readiness to implement a set of measures aimed at preserving and strengthening health and including the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of diseases, their early diagnosis, identification of the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health

PC-5 readiness to collect and analyze the patient’s complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease

PC-6 ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Problems Associated with

health, X revision

PC-8 ability to determine tactics for managing patients with various nosological forms

PK-15 readiness to teach patients and their relatives basic hygienic health measures, self-monitoring skills for basic physiological indicators that help maintain and improve health, and prevent diseases

PC-20 readiness to analyze and publicly present medical information based on evidence-based medicine

PK-21 ability to participate in scientific research

PC-22 readiness to participate in the implementation of new methods and techniques aimed at protecting the health of citizens

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

3.1. The academic discipline “General Surgery” is basic (B1.B.47)

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

- Bioethics
- Histology, embryology, cytology
- Jurisprudence
- Hygiene

3.3. The discipline “General Surgery” creates the prerequisites for the formation of these competencies by the following disciplines:

- Otolaryngology
- Urology
- Dermatovenereology
- Pediatrics
- Faculty Surgery
- obstetrics and gynecology
- Neurology, medical genetics, neurosurgery
- Occupational diseases
- Forensic Medicine
- Ophthalmology
- Childhood infections
- Reproductive medicine
- Hospital surgery
- Traumatology, orthopedics
- Infectious diseases
- Anesthesiology, resuscitation, intensive care
- Pediatric surgery
- Outpatient therapy

IV. CONTENT AND STRUCTURE OF DISCIPLINE

Labor intensity of the discipline in 3 8 hours 288

4.1. Sections of the discipline studied in semesters 5 and 6

No. section a	Name section	Number of hours					
		Total	Contact work				SRS
			L	WITH	ETC	LR	
Semester 5							
1	General questions of surgery	66	12		thirty		24
2	Basics clinical surgery	78	24		24		thirty
Total for the semester		144	36		54		54
Interim certification form (test/test with assessment/exam)		test					
Semester 6							
1	General questions of surgery	26	2		12		12
2	Basics clinical surgery	82	14		36		32
Total for the semester		108	16		48		44
Interim certification form (test/test with assessment/exam)		Exam (36)					
<i>Total for the discipline:</i>		288	52		102		98

SRS- independent work of students

L- lectures

WITH– seminars (in accordance with the RUP)

LR –laboratory work (in accordance with the RUP)

ETC– practical exercises (in accordance with the RUP, they include clinical practical exercises)

4.2. Independent work of students under the supervision of a teacher

Lectures

Section number	Lecture no.	Lecture topics	Number of hours
Semester 5			
1	1	Concept of surgery. A brief history of surgery. Current state of surgery. Organizational and legal foundations of surgical activity. Ethics and deontology in surgery.	2
1	2	Asepsis, work organization surgical department and operating unit, preparation hands	2

		surgeon and surgical field for surgery.	
1	3	Antiseptics (mechanical, physical, biological, chemical, mixed).	2
1	4	Bleeding. Blood clotting disorder surgical patients and methods of their correction.	2
1	5	Transfusion of blood and its components...	2
1	6	Transfusion of blood substitutes. Water-electrolyte disorders in surgical patients and principles infusion therapy	2
2	7	Wounds, phases of the wound process.	2
2	8	Wound treatment	2
2	9	Thermal burns. Chemical burns.	2
2	10	Cold injury. Electrical injury.	2
2	eleven	General issues of traumatology. First medical assistance in critical conditions.	2
2	12	Fractures. Dislocations. Clinic, diagnosis, treatment.	2
2	13	Transport immobilization. Plaster technique.	2
2	14	Closed soft tissue injuries. Syndrome long-term crush syndrome positional compression	2
2	15	General issues regarding head, chest and belly	2
2	16	General issues of purulent-septic surgery. Purulent diseases of the skin and subcutaneous tissue	2
2	17	Purulent diseases of the hand, cellular spaces and glandular organs	2
2	18	Surgical sepsis. Endotoxicosis.	2
Total by semester hours			36
Semester 6			
2	1	General issues of etiopathogenesis, clinical picture, diagnosis and treatment of purulent diseases of serous cavities	2
2	2	Purulent diseases of bones and joints.	2
2	3	Acute anaerobic putrefactive surgical infection. Specific surgical infection.	2
2	4	Fundamentals of surgery and regional disorders blood circulation	2
2	5	Fundamentals of surgical oncology.	2
2	6	Developmental defects. Fundamentals of Plastic Surgery	2
2	7	Fundamentals of surgery for parasitic diseases.	2
1	8	Stages of treatment of a surgical patient (first assistance, outpatient surgery, stationary surgery)	2
Total by semester hours			16
<i>Total hours discipline:</i>			52

Practical work

No. section a	No. PR	Topics of practical work	Number of hours	Form current control
Semester 5				
1	1	Organization worksurgical department and operating unit.	3	Oral survey
1	2	Asepsis. Preventionairborne infection		Oral survey
1	3	Asepsis. Prevention contact and implantation infection	3	Oral survey
1	4	Antiseptics mechanical,physical.	3	Oral survey
1	5	Antiseptics chemical,biological and mixed	3	Testing, solving situational problems, oral questioning
1	6	Bleeding, blood loss.Violation coagulationblood in surgical patients and methods of their correction (interview)	3	Oral survey
1	7	Blood transfusion hercomponents.	3	Oral survey
1	8	Transfusionblood substitutes. In one- electrolyte disturbances insurgical patients Andprinciples infusiontherapy.	3	Oral survey, abstract (UIRS)
1	9	Complications during blood and blood substitute transfusions	3	Testing, solving situational problems, oral questioning
1	10	Desmurgy. Non- operativesurgical technique:probing, catheterization, injections.	3	Oral survey
2	eleven	Wounds.Phases woundprocess.	3	Oral survey
2	12	Wound treatment	3	Oral survey
2	13	Thermal burns Andchemical	3	Oral survey, abstract (UIRS)
2	14	Electrical trauma, coldinjury.	3	Testing, solving situational problems, oral questioning
2	15	General issues	3	Oral survey

		surgerydamage. First		
--	--	-------------------------	--	--

No. section a	No. PR	Topics of practical work	Number of hours	Form current control
		medical care critical conditions.		
2	16	Fractures. Clinic, diagnosis, treatment.	3	Oral survey
2	17	Dislocations. Clinic, diagnosis, treatment.	3	Oral survey
2	18	Transport immobilization. Plaster technique.	3	Testing, solving situational problems, oral questioning, practical skills (theory)
Total by semester hours			54	
Semester 6				
2	1	Closed damages soft tissues and tendons. Syndrome long-term crushing, syndrome positional compression	3	Oral survey, abstract (UIRS)
2	2	Closed and open injuries to the head, chest and abdomen	3	Testing, solving situational problems, oral survey, abstract (UIRS)
1	3	Stationary surgery. Preoperative period. Period operations. Postoperative period.	3	Oral survey
2	4	Purulent skin diseases and subcutaneous fiber (furuncle, carbuncle, hidradenitis, abscess, phlegmon, erysipelas, erysipeloid)	3	Oral survey
2	5	Purulent diseases of the hand, cellular spaces and glandular organs (felon, lymphadenitis, mastitis, mumps, paraproctitis, paracolicitis, mediastinitis)	3	Testing, solving situational problems, oral questioning
2	6	General purulent infection - sepsis. Endotoxemia.	3	Oral survey, abstract (UIRS)
2	7	Purulent diseases serous cavities.	3	Oral survey, abstract (UIRS)
2	8	Purulent diseases of bones and joints	3	Testing, solution situational tasks, oral questioning
1	9	Examination technique surgical patient.	3	Oral survey

1	10	Patient supervision. Educationpatient control behind basic physiological	3	Educational medical history
---	----	---	---	--------------------------------

No. section a	No. PR	Topics of practical work	Number of hours	Formcurrent control
		indicators.		
2	eleven	Anaerobic and putrefactive surgical infection. Specific surgical infection	3	Oral survey, abstract (UIRS)
2	12	Fundamentals of surgery for regional disorders blood circulation (Necrosis, gangrene, ulcers, fistulas)	3	Oral survey
2	13	Fundamentals of surgical oncology	3	Oral survey
2	14	Developmental defects. Basics plastic surgery	3	Oral survey
2	15	Basics surgery parasitic diseases	3	Testing, solution situational tasks, oral questioning
1	16	Outpatient surgery. Structure of the surgical services clinics, trauma center.	3	Oral survey
Total by semester hours			48	
<i>Total hours discipline:</i>			102	

4.3. Independent work of students

Section number	Type of independent work of students	Number of hours	Formcurrent control
Semester 5			
1.	Preparation for classes	16	Oral survey
	Preparation for current control	8	Testing, solving situational problems
2.	Preparation for classes	20	Oral survey
	Preparation for current control	10	Testing, solving situational problems
Total hours per semester		54	
Semester 6			
1.	Preparation for classes	7	Oral survey
	Preparation for current control	1	Testing, solving situational problems
	Disease history	4	Protection of medical history
2.	Preparation for classes	16	Oral survey
	Preparation for current control	8	Testing, solving situational problems
	Essay	8	Defense of the abstract
Total hours per semester		44	
<i>Total hours discipline:</i>			98

Approximate topics of abstracts:

1. Blood substitutes with oxygen transfer function
2. Modern methods of treating burns
3. Closed soft tissue injuries (bruise, sprain, rupture). Clinic, diagnosis, treatment.
4. Long-term crush syndrome. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
5. Positional compression syndrome. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
6. Closed and open head injuries. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
7. Closed and open chest injuries.
Etiopathogenesis, classification, clinic, diagnosis, treatment.
8. Closed and open abdominal injuries. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
9. Sepsis. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
10. Modern methods of detoxification in surgery.
11. Peritonitis. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
12. Acute purulent pleurisy. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
13. Anaerobic clostridial infection. Etiopathogenesis, classification, clinical picture, diagnosis, treatment.
14. Anaerobic non-clostridial infection. Etiopathogenesis, classification, clinic, diagnosis, treatment.

V. ASSESSMENT FUND FOR CURRENT CONTROL AND 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. Gostishchev V.K. General surgery: textbook: [Rec. GOU VPO "Moscow Medical Academy named after I.M. Sechenov"] / V.K. Gostishchev. - 5th ed., revised and supplemented. - M: GEOTAR-Media, 2016. - 727 p.
2. Gostishchev V.K. General surgery: textbook [Electronic resource] / V. K. Gostishchev. - 5th ed., revised. and additional - M.: GEOTAR-Media, 2015.
3. Order of the Ministry of Health of the Russian Federation dated May 10, 2017 N 203n "On approval of criteria for assessing the quality of medical care" <https://www.edu-med.ru/medinfo/ocenka-kachestva>

6.2. Additional literature.

1. Petrov S.V. General surgery: Appendix to the textbook on CD / [Electronic resource]. - M: GEOTAR-Media, 2007.
2. Chernov V.N. General surgery. Practical lessons: textbook. manual for medical students. universities/ V.N. Chernov, A.I. Maslov. - M.-Rostov n/d: Publishing center "MarT", 2004. - 256 p.
3. Necrosis, gangrene, ulcers, fistulas: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, I.E. Tolstov; Rostov n/d, publishing house RostGMU, 2012. - 41 p.
4. Asepsis and antiseptics: educational method. manual for students / B.M. Belik., V.N. Chernov; Rostov n/d, publishing house RostSMU, 2009. - 51c.

5. Asepsis and antiseptics: educational method. manual for students, surgical interns and clinical residents / B.M. Belik; V.N. Chernov; Ed. 2nd, revised and additional Rostov n/D, publishing house RostGMU, 2013. – 64 p.
6. Bleeding, blood loss: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, V.V. Skorlyakov, A.I. Maslov; Rostov n/d, publishing house RostGMU, 2012. - 46 p.
7. Transfusion of blood and its components: methodological recommendations for students and doctors / V.N. Chernov, A.I. Maslov, T.V. Fadeeva; Rostov n/d, publishing house RostSMU, 2010. - 52 p.
8. Wounds and wound infection. Treatment of wounds: educational method. manual for students, surgical interns and clinical residents / B.M. Belik, A.V. Rodakov; V.N. Chernov; Rostov N/D, publishing house RostGMU, 2014. - 71 p.
9. General issues of injury surgery: educational method. manual / comp.: A.I. Maslov; under general ed. V.N. Chernova; RostSMU. – Rostov n/d: Rostov State Medical University Publishing House, 2010. - 35 p.
10. Acute purulent diseases of bones and joints: educational method. manual for students / comp.: S.S. Keshchyan, V.V. Skorlyakov; under general ed. V.N. Chernova; Height. state honey. univ. – Rostov n/d: Publishing house of Rostov State Medical University, 2010. - 24 p.
11. General issues of oncology: educational method. manual for students/comp.: V.N. Chernov, A.I. Maslov; Height. state honey. university, department general surgery. - ed. 2nd, revised – Rostov n/d: Publishing house of Rostov State Medical University, 2014. - 62 p.
12. Educational and methodological manual on preparing a medical record (medical history) of an inpatient patient for students / compiled by: V.V. Skorlyakov, A.I. Maslov; under general ed. V.N. Chernova; Height. state honey. university, department general surgery. – Rostov n/d: Publishing house RostGMU, 2014. - 37 p.
13. Purulent diseases of the fingers and hand: educational method. a manual for teachers, students of medical universities, interns, residents, doctors / V.N. Chernov, B.M. Belik, A.I. Maslov; Height. state honey. univ. – Rostov n/d: Publishing house RostGMU, 2005. – 79 p.
14. Impaired blood and lymph circulation: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, I.E. Tolstoy; Height. state honey. university, department total surgery. – Rostov n/d: Publishing house RostGMU, 2012. - 41 p.
15. Surgical sepsis: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, D.V. Stagniev; Height. state honey. university, department total surgery. – Rostov n/d: Publishing house RostGMU, 2012. - 34 p.
16. Closed soft tissue injuries, long-term crush syndrome, positional compression syndrome. Closed and open injuries to the head, chest, abdomen: educational method. aid for students / comp. O.V. Baev, V.V. Skorlyakov; under general ed. V.N. Chernova. – Rostov n/a: Publishing house RostGMU, 2010
17. Order of the Ministry of Health of the Russian Federation of December 20 2012 No. 1125n "On approval of the standard of primary health care for malignant neoplasms of connective soft tissues I-IV stages (examination during dispensary observations)"
<http://www.rosminzdrav.ru/documents/8246-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-Dekabrya-2012-g-1125n-ob-utverzhdenii-standarta-pervichnoy-mediko-sanitarnoy-pomoschi-pri-zlokachestvennyh-novoobrazovaniyah-soedinitelnoy-i-myagkikh-tkaney-i-iv-stadii-obsledovanie-pri-provedenii-dispansernogo-nablyudeniya>
18. Order of the Ministry of Health of the Russian Federation dated December 20, 2012 No. 1120n "On approval of the standard of emergency medical care for electrical injuries electric shock" <http://www.rosminzdrav.ru/documents/8658-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1120n-ob-utverzhdenii-standarta-skoroy-meditsinskoy-pomoschi-pri-porazhenii-elektricheskim-tokom>

19. Order of the Ministry of Health of the Russian Federation dated December 20, 2012 No. 1123n "On approval of the standard of emergency medical care for injuries of the abdomen, lower partbacks" <http://www.rosminzdrav.ru/documents/8659-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1123n-ob-utverzhdanii-standarta-skoroy-meditsinskoy-pomoschi-pri-travmah-zhivota-nizhney-chasti-spiny>
20. [Order of the Ministry of Health of the Russian Federation of December 20, 2012 No. 1278n "On approval of the standard of emergency medical care for burns, hypothermia"](#)
<http://www.rosminzdrav.ru/documents/8660-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1278n-ob-utverzhdanii-standarta-skoroy-meditsinskoy-pomoschi-pri-ozhogah-gipotermii>
21. [Order of the Ministry of Health of the Russian Federation dated December 24, 2012 No. 1389n "On approval of the standard of emergency medical care for thoracic injuries cells"](#)
<http://www.rosminzdrav.ru/documents/8663-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-24-dekabrya-2012-g-1389n-ob-utverzhdanii-standarta-skoroy-meditsinskoy-pomoschi-pri-travmah-grudnoy-kletki>
22. [Order of the Ministry of Health of the Russian Federation dated December 24, 2012 No. 1390n "On approval of the standard of emergency medical care for head injuries"](#)
<http://www.rosminzdrav.ru/documents/8664-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-24-dekabrya-2012-g-1390n-ob-utverzhdanii-standarta-skoroy-meditsinskoy-pomoschi-pri-travmah-golovy>
23. [Order of the Ministry of Health of the Russian Federation dated December 24, 2012 No. 1399n "On approval of the standard of emergency medical care for the syndrome prolonged compression"](#)
<http://www.rosminzdrav.ru/documents/8669-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-24-dekabrya-2012-g-1399n-ob-utverzhdanii-standarta-skoroy-meditsinskoy-pomoschi-pri-sindrome-dlitelnogo-sdavleniya>
24. [Order of the Ministry of Health of the Russian Federation dated December 28, 2012 No. 1604n "On approval of the standard of emergency medical care for frostbite"](#)
<http://www.rosminzdrav.ru/documents/8687-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-28-dekabrya-2012-g-1604n-ob-utverzhdanii-standarta-skoroy-meditsinskoy-pomoschi-pri-otmorozheniyah>
25. Order of the Ministry of Health of the Russian Federation dated December 20, 2012 No. 1262n "On approval of the standard of primary health care for bursitiselbow joint"
<http://www.rosminzdrav.ru/documents/8408-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1262n-ob-utverzhdanii-standarta-pervichnoy-mediko-sanitarnoy-pomoschi-pri-bursite-loktevogo-otrostka>
26. Burnshock <http://society-of-surgeons.rf/upload/Diagnostika-i-lechenie-ozhogovogo-shoka2.pdf>
27. Local treatmentburns <http://society-surgeons.rf/upload/Mestnoe-konservativnoe-lechenie-postradavshih-ot-ozhogov2.pdf>
28. Peritonitishhttp://society-of-surgeons.rf/upload/nkr_peritonit_ispr_1-3.pdf
29. Abdominalsepsishhttp://society-of-surgeons.rf/upload/nkr_peritonit.doc

6.3. Periodicals:

1. Annals of Surgery
2. Surgery. Journal named after N.I. Pirogov
3. Bulletin of surgery named after I.I. Grekov
4. Doctor
5. Clinical medicine

6.4. Internet resources:

ELECTRONIC EDUCATIONAL RESOURCES						Access to resource
1.	Electronic library	RostSMU.	–	URL:	Access	

	http://109.195.230.156:9080/opacg/	is not limited
2.	Student Advisor: EBS. – Moscow: LLC “IPUZ”. - URL: http://www.studmedlib.ru	Access is not limited
3.	Doctor's consultant. Electronic medical library: EBS. – Moscow: LLC GC "GEOTAR". - URL: http://www.rosmedlib.ru	Access is not limited
4.	Consultant Plus :reference legal system.- URL: http://www.consultant.ru	Access from computers university
5.	Scientific electronic library eLIBRARY .- URL: http://elibrary.ru	Open access
6.	National Electronic Library. - URL: http://neb.rf/	Access from library computers
7.	Single window of access to information resources. - URL: http://window.edu.ru/	Open access
8.	Russian education. Federal educational portal. - URL: http://www.edu.ru/index.php	Open access
9.	Federal Electronic Medical Library of the Ministry of Health Russia. - URL: http://www.femb.ru/feml/ , http://feml.scsml.rssi.ru	Open access
10.	Medline (PubMed, USA). – URL: https://www.ncbi.nlm.nih.gov/pubmed/	Open access
eleven.	CyberLeninka: scientific electron. beep. - URL: http://cyberleninka.ru/	Open access
12.	Archives of scientific journals/NEIKON.-URL: https://archive.neicon.ru/xmlui/	Open access
13.	Open access journals in Russian /ElPub platform NEICON. – URL: https://elpub.ru/	Open access
14.	Medical Bulletin of the South of Russia .- URL: https://www.medicalherald.ru/jour or from the RostSMU website	Open access
15.	World Health Organization. - URL: http://who.int/ru/	Open access
16.	Evrika.ru information and educational portal for doctors. – URL: https://www.evrika.ru/	Open access
17.	Med-Edu.ru: medical video portal. -URL: http://www.med-edu.ru/	Open access
18.	Univadis.ru: international honey. portal. - URL: http://www.univadis.ru/	Open access
19.	DoctorSPB.ru: information-reference portalmedicine.-URL: http://doctorspb.ru/	Open access
20.	Rubricator of clinical recommendations Ministry of Health of Russia. - URL: http://cr.rosminzdrav.ru/#!/	Open access

6.5. Guidelines for students on mastering the discipline:

Studying the discipline should culminate in mastering the necessary professional knowledge, skills and abilities. This result can be achieved only after very significant efforts, and not only effort and ability will be important, but also a well-thought-out organization of educational activities, including the correct organization of time.

First of all, it is necessary in a timely manner - at the very beginning of the semester - to familiarize yourself with this work program, which indicates how much information should be learned, what skills to acquire to successfully master the discipline, what tasks to complete in order to get a decent grade. All types of classes are distributed throughout the semester systematically, taking into account the necessary time expenditure.

One of the main components of successful mastery of the discipline is

Regular attendance at lectures and practical classes.

At the lecture, the teacher informs students about new achievements in medical science, about the main provisions of the academic discipline, reveals the features of each specific topic, and introduces the problems in this section of science; orients in the sequence of development of theories, views, ideas, explains basic scientific concepts, reveals the meaning of terms - that is, educational information has already been processed by the teacher and becomes more adapted and easier for students to understand.

The development of practical skills and abilities takes place in practical classes, where students have the opportunity to apply the knowledge they have already acquired in practice, to practice practical skills and abilities.

You should prepare for a practical lesson in advance, having an idea of the course and requirements of each lesson. During practical classes, you can directly contact the teacher in case of difficulties in understanding some questions on the topics being studied.

An important part of a student's work is reading and taking notes of scientific papers and preparing abstracts. Note-taking work should be done after first studying the practical lesson plans, section topics, and interview questions.

Abstract topics:

- Blood substitutes with oxygen transfer function
- Modern methods of treating burns
- Closed injuries of soft tissues and tendons. Clinic, diagnosis, treatment.
- Long-term crush syndrome. Etiopathogenesis, clinical picture, diagnosis, treatment.
- Positional compression syndrome. Etiopathogenesis, clinical picture, diagnosis, treatment.
- Closed and open head injuries. Classification, clinic, diagnosis, treatment.
- Closed and open chest injuries cells. Classification, clinic, diagnosis, treatment.
- Closed and open damage abdomen. Classification, clinic, diagnosis, treatment.
- Sepsis. Classification, etiopathogenesis, clinical picture, diagnosis, treatment.
- Modern methods of detoxification in surgery.
- Peritonitis. Classification, etiopathogenesis, clinical picture, diagnosis, treatment.
- Empyema of the pleura. Classification, etiopathogenesis, clinical picture, diagnosis, treatment.
- Anaerobic clostridial and non-clostridial infection. Etiopathogenesis, clinical picture, diagnosis, treatment.

When checking an abstract, the teacher evaluates:

1. Knowledge of factual material, mastery of general concepts, concepts, ideas.
2. Characteristics of the implementation of the goals and objectives of the study (novelty or relevance of the problems posed in the abstract, correctness of the formulation of the goal, definition of the research objectives, compliance of the conclusions with the tasks being solved, the stated goal).
3. The degree of validity of arguments and generalizations (completeness, depth, comprehensiveness of the topic, logic and consistency of the presentation of the material, correctness of the argumentation and system of evidence, the nature and reliability of examples, illustrative material, the breadth of the author's horizons, the presence of knowledge of an integrated nature, the ability to generalize).
4. The quality and value of the abstract results obtained (the degree of completeness of the abstract research, the controversy or unambiguity of the conclusions).
5. Use of literary sources.
6. The culture of written presentation of material.
7. Culture of design of work materials.

A systematic approach to the study of the subject involves not only a thorough study of specialized literature, but also reference to additional sources -

reference books, encyclopedias, dictionaries. These sources are an important aid in the student's independent work, since a deep study of such materials will allow the student to confidently "recognize" and then independently operate with scientific categories and concepts, and therefore master professional scientific terminology.

Independent work of students includes performing various kinds of tasks that are focused on a deeper assimilation of the material of the discipline being studied. For each topic of the academic discipline, students are offered a list of tasks for independent work. The following requirements apply to completing assignments for independent work: assignments must be completed independently and submitted within the established deadline, as well as meet the established formatting requirements.

When preparing for the exam, it is necessary to simultaneously study the relevant theoretical and practical sections of the discipline.

The recommendations given above will allow you to complete all assignments in a timely manner, obtain the necessary professional skills and abilities, as well as a decent grade, and avoid the need to waste time on retraining and retaking the subject.

To prepare for practical classes, you must use the following teaching aids:

1. Necrosis, gangrene, ulcers, fistulas: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, I.E. Tolstov; Rostov n/d, publishing house RostGMU, 2012. - 41 p.
2. Asepsis and antiseptics: educational method. manual for students / B.M. Belik., V.N. Chernov; Rostov n/d, publishing house RostSMU, 2009. - 51c.
3. Asepsis and antiseptics: educational method. manual for students, surgical interns and clinical residents / B.M. Belik; V.N. Chernov; Ed. 2nd, revised and additional Rostov n/D, publishing house RostGMU, 2013. – 64 p.
4. Bleeding, blood loss: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, V.V. Skorlyakov, A.I. Maslov; Rostov n/d, publishing house RostGMU, 2012. - 46 p.
5. Transfusion of blood and its components: methodological recommendations for students and doctors / V.N. Chernov, A.I. Maslov, T.V. Fadeeva; Rostov n/d, publishing house RostSMU, 2010. - 52 p.
6. Wounds and wound infection. Treatment of wounds: educational method. manual for students, surgical interns and clinical residents / B.M. Belik, A.V. Rodakov; V.N. Chernov; Rostov N/D, publishing house RostGMU, 2014. - 71 p.
7. General issues of injury surgery: educational method. manual / comp.: A.I. Maslov; under general ed. V.N. Chernova; RostSMU. – Rostov n/d: Rostov State Medical University Publishing House, 2010. - 35 p.
8. Acute purulent diseases of bones and joints: educational method. manual for students / comp.: S.S. Keshchyan, V.V. Skorlyakov; under general ed. V.N. Chernova; Height. state honey. univ. – Rostov n/d: Publishing house of Rostov State Medical University, 2010. - 24 p.
9. General issues of oncology: educational method. manual for students/comp.: V.N. Chernov, A.I. Maslov; Height. state honey. university, department general surgery. - ed. 2nd, revised – Rostov n/d: Publishing house of Rostov State Medical University, 2014. - 62 p.
10. Educational and methodological manual on preparing a medical record (medical history) of an inpatient patient for students / compiled by: V.V. Skorlyakov, A.I. Maslov; under general ed. V.N. Chernova; Height. state honey. university, department general surgery. – Rostov n/d: Publishing house RostGMU, 2014. - 37 p.
11. Purulent diseases of the fingers and hand: educational method. a manual for teachers, students of medical universities, interns, residents, doctors / V.N. Chernov, B.M. Belik, A.I. Maslov; Height. state honey. univ. – Rostov n/d: Publishing house RostGMU, 2005. – 79 p.
12. Impaired blood and lymph circulation: educational method. manual for 3rd year students of medical, pediatric, medical and preventive and dental

faculties/ V.N. Chernov, I.E. Tolstoy; Height. state honey. university, department total surgery. – Rostov n/d: Publishing house RostGMU, 2012. - 41 p.

13. Surgical sepsis: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, D.V. Stagniev; Height. state honey. university, department total surgery. – Rostov n/d: Publishing house RostGMU, 2012. - 34 p.

14. Closed soft tissue injuries, long-term crush syndrome, positional compression syndrome. Closed and open injuries to the head, chest, abdomen: educational method. aid for students / comp. O.V. Baev, V.V. Skorlyakov; under general ed. V.N. Chernova. – Rostov n/a: Publishing house RostGMU, 2010

VII. MATERIAL AND TECHNICAL ENSURING DISCIPLINE

7.1. Educational and laboratory equipment. During the study of the discipline, surgical inpatient wards are used (surgical department No. 1, No. 2 of the Municipal Medical Institution No. 1 of Rostov-on-Don - 100 beds, trauma center of the Municipal Medical Institution No. 1 of Rostov-on-Don - 100 beds, polyclinic of the Municipal Hospital No. 1 of Rostov-on-Don - 100 beds GB No. 1 in Rostov-on-Don, burn center emergency hospital No. 2 in Rostov-on-Don), laboratory of the regional blood transfusion station, training rooms (12) for student work, equipped with a set of tables and posters, lecture hall for 120 seats, equipped with a multimedia complex (laptop, projector, screen), a computer class with 14 seats, a medical simulation room equipped with a mannequin, dressing table, and instruments.

7.2. Technical and electronic means.

Input development

disciplines The following technical and electronic means are used:

- Electronic presentations of lectures
- Sets of posters (“Basics of resuscitation”, “Cancer”, “Bedsores”, “Diseases of the digestive system”, “Skin”, “Deep vein thrombosis”, “Hand and wrist”)
- Full-size manikin for performing catheterization, probing and dressing skills
- Dummy upper limb for performing injection skills, applying and removing sutures
- Set of dummies “Wounds”
- Computer class for 12 seats

No.	Name of special premises and premises for independent work	Equipping special rooms and rooms for independent work
1.	344010, Rostov region, Rostov-on-Don <i>etc.</i> Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Liter 0A, basement) Lecture room No. 4. Classroom for conducting lecture-type classes in the discipline “General Surgery”	Room staffed specialized educational furniture tables-1, chairs-95 Technical means training, employees for representation educational information big Audience: Core E Workstation 7400 monitor mouse-1; X-ray viewer N-48-1
2.	344010, Rostov region, Rostov-on-Don <i>etc.</i> Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 23a (study room No. 3). Room for holding classes	Room staffed specialized educational furniture chairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.

	<p>practical type, group consultations individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	
3.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 21a (study room No. 4). Room for holding classes practical type, group consultations individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	<p>Room staffed specialized educational furniture chairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.</p>
4.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 21b, 21e, 21v121g (study room No. 5). Class room practical type, group consultations individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	<p>Room staffed specialized educational furniture - chairs-10. Kit demonstration equipment and educational visual aids benefits, providing thematic illustrations, X-ray viewer-1.</p>
5.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 13a, 13b (study room No. 6). Class room practical type, group consultations individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	<p>Room staffed specialized educational furniture - chairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.</p>
6.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 13b (study room No. 7). Room for holding classes practical type, group consultations individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	<p>Room staffed specialized educational furniture - chairs-10. Kit demonstration equipment and educational visual aids benefits, providing thematic illustrations, X-ray viewer-1.</p>

7.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 15 (study room No. 8).Room for holding</p> <p>classespractical type, groupconsultations individualconsultations, ongoing controlintermediate certification in discipline "General surgery"</p>	<p>Room</p> <p>staffedspecialized</p> <p>educationalfurniture - chairs-10. Kit</p> <p>demonstrationequipment and educational visual aidsbenefits, providingthematic illustrations,X-ray viewer-1.</p>
8.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 46 (study room No. 9).Room for holding</p> <p>classespractical type, groupconsultations individualconsultations, ongoing controlintermediate certification in discipline "General surgery",</p>	<p>Room</p> <p>staffedspecialized</p> <p>educationalfurniture - chairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.</p>
9	<p>344010, Rostov region, Rostov-on-DonDon, etc. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 50 (Training room No. 2, computer lab). Classroom for conducting computer controlled classes in the discipline "General Surgery".</p>	<p>Premises staffedspecialized furniture tables, chairs – 12. Linux computer 1. LG 13 monitor. Asus laptop 1. WI FI ORTION access point 12. BenQ MX661 projector</p>
10.	<p>344010, Rostov region, Rostov-on-DonDon, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 1st floor)Auditorium No. 19a, 20e (Training room No. 1)Room for holding</p> <p>classespractical type, groupconsultations individualconsultations, ongoing controlintermediate certification in discipline "General surgery",</p>	<p>Furniture set "Vector 4"</p>
elev en.	<p>344010, Rostov region, Rostov-on-DonDon, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 2nd floor)Auditorium No. 38 (Training room No. 10)Room for holding</p> <p>classespractical type, groupconsultations individualconsultations,</p>	<p>Room</p> <p>staffedspecialized</p> <p>educationalfurniture - chairs-10. Kit</p> <p>demonstrationequipment and educational visual aidsbenefits, providingthematic</p>

	ongoing controlintermediate certification in discipline	illustrations,X-ray viewer-1.
--	--	----------------------------------

	"General surgery"	
12.	<p>344010, Rostov region, Rostov-on-Don, Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 2nd floor) Auditorium No. 37 (Training room No. 11) Room for holding classes practical type, group consultations, individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	Room staffed specialized educational furniture - chairs-10. Kit demonstration equipment and educational visual aids benefits, providing thematic illustrations, X-ray viewer-1.
13.	<p>344010, Rostov region, Rostov-on-Don, Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 2nd floor) Auditorium No. 25a (Training room No. 12) Room for holding classes practical type, group consultations, individual consultations, ongoing control intermediate certification in discipline "General surgery"</p>	Room staffed specialized educational furniture - chairs-10. Kit demonstration equipment and educational visual aids benefits, providing thematic illustrations, X-ray viewer-1.
14.	<p>344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214 (No. 41, Liter A-Ya, 2nd floor, 4th floor, Liter B-A, 6th floor) 344022, Rostov region, Rostov-on-Don, st. Adygei/Pushkinskaya 12/191. Special premises</p> <p>For independent work - library reading rooms, auditorium of the Department of Physics, Department of Automation and Monitoring of the Quality of Education in the discipline "General Surgery"</p>	Computer equipment with an Internet connection and access to the EIOS RostSMU
15.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Auditorium No. 22 (student wardrobe). Room for storing clothes of students in the discipline "General Surgery"</p>	
16.	<p>344010, Rostov region, Rostov-on-Don, Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Auditorium #49 (room practical skills) Class room practical type, group consultations</p>	Room staffed sets of demonstration equipment and educational visual aids benefits, providing thematic illustrations: dummy upper limb For performing injections and suturing - 1, full-size human phantom for catheterization and probing physiological openings and

	ongoing	individual consultations, control	
--	---------	--------------------------------------	--

	intermediate certification in discipline "General surgery".	applying bandages - 1 set dummies "Wounds" - 1.
17.	<i>344010, Rostov region, Rostov-on-Don</i> <i>Don, Ave.</i> <i>Voroshilovsky/Varfolomeeva/Tekucheva</i> <i>105/243/264(No. 41, Letter 0, basement floor)</i> Auditorium No. 51 Storage room preventive maintenance of educational equipment under the discipline "General surgery"	Storage furniture educational equipment: cabinet - 2 al

