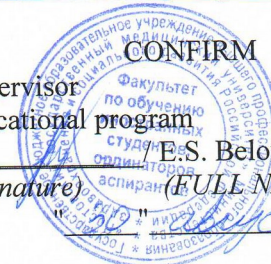


FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION  
OF HIGHER EDUCATION  
"ROSTOV STATE MEDICAL UNIVERSITY"  
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

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

Supervisor  
educational program

*E.S. Belousova /*  
*(signature) (FULL NAME.)*



2023

**DISCIPLINE WORKING PROGRAM**

**HOSPITAL SURGERY**

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don  
2023

## I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

**Goals** development disciplines:teach students skill diagnosesurgical diseases, determine the choice of method of their treatment and prevention.

**Tasks:**

- diagnosis of diseases and pathological conditions of patients;
- diagnosis of emergency conditions;
- provision of primary medical care in outpatient and day hospital settings;
- provision of primary medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care;
- participation in the provision of emergency medical care for conditions requiring urgent medical intervention;
- formation of motivation among the population, patients and members of their families aimed at preserving and strengthening their health and the health of others.

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

2.1. The academic discipline is basic;

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.*

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):***the 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; perform the following manipulations: subcutaneous and intramuscular injections; intravenous administration of blood substitutes and infusion media; determination of blood group using the express method; stopping bleeding in the wound; catheterization of the bladder with a soft catheter; insertion of a tube into the stomach; provide first aid and know the principles of tactics at the prehospital stage for: profuse gastrointestinal bleeding; tense and open pneumothorax; shocked; acute abdomen

#### IV. CONTENT AND STRUCTURE OF DISCIPLINE

The labor intensity of the discipline in z – 8, hour – 288.

##### 4.1. Sections of the discipline studied in the IX, X, XI semesters

Section number	Section name	Number of hours					
		Total	Contact work				SRO*
			L	WITH	ETC	LR	
Semester IX							
1	Hospital surgery	72	12	-	32	-	28
	Interim certification form (test/test with assessment/exam)	test					
Semester X							
2	Hospital surgery	108	16	-	48	-	44
	Interim certification form (test/test with assessment/exam)	test with grade					
Semester XI							
3	Hospital surgery	72	12	-	32	-	28
	Interim certification form (test/test with assessment/exam)	Exam (36 hours)					
	<i>Total:</i>	288	40	-	112	-	100

\* 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	Number of
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				hours
Semester IX				
1	Seminar No., PR	1	Heart defects <b>Seminars, practical work</b>	2
		2	IHD, aneurysms, pericarditis	2
		3	Diseases of the aorta and its branches <b>Topics of seminars, practical work</b>	2
		4	Peripheral artery diseases	2
		5	Vein diseases Semester IX	2
		6	Phlebothrombosis and embolism, pulmonary embolism	2
No. section	Seminar No., PR	7	Suppurative lung diseases	2
		8	Lung tumors, pulmonary hemorrhages <b>Topics of seminars, practical work</b>	2
Semester X				
2	1	1	<b>Intestinal fistulas.</b> Diseases of the small intestine. Small intestine fistulas. Classification, diagnosis, treatment. Tumors of the small intestine. Classification, clinic, diagnosis, treatment. <b>Breast diseases</b>	TR 2
		2	<b>Mammary cancer.</b> Definition of the concept, clinic, diagnosis, treatment. Complications, their diagnosis and treatment. Injuries of the small and large intestine. Clinic, diagnosis, principles of surgical treatment. Complications. Colonic fistulas. Causes, clinic, diagnosis, treatment principles.	2
		3	<b>Neck diseases</b>	2
		4	<b>Thyroid cancer</b>	2
		5	<b>Artificial fistulas.</b> Fistulas of the rectum. Causes, clinic, diagnosis, surgical treatment. <b>Combined trauma of the chest and abdomen</b>	2
		6	<b>Diseases of the esophagus</b>	2
Semester XI				
3	2	1	<b>"Ischemic disease of the digestive system."</b> Acute disorders of mesenteric circulation. Types of acute disorders of mesenteric circulation (embolism, arterial thrombosis, non-occlusive disorder). Differential diagnosis of jaundice	TR, KR
		2	<b>Differential diagnosis of jaundice</b>	2
		3	<b>Gastrointestinal bleeding</b>	4
		4	<b>Diseases of the operated stomach</b>	2
		5	<b>Portal hypertension</b>	2
		6	<b>Pancreatic tumors</b>	2
1	3	7	<b>"Diseases of the trachea."</b> Tracheal diseases. Classification, research methods. Developmental defects, diagnosis, treatment. Organ and tissue transplantation	TR, KR
		8	Benign and malignant tumors. Diagnosis, treatment. Traumatic injuries of the trachea, diagnosis, treatment. Cicatricial stenosis of the trachea. Causes. Clinic, diagnostics, modern treatment methods.	2

	4	<b>"Abscesses and gangrene of the lung."</b> Abscess and gangrene of the lung. Definition of concepts. Classification. Acute lung abscess. Single and multiple abscesses, pathogenesis. Clinic of acute abscess, diagnosis, differential diagnosis. Conservative treatment methods. Indications for surgery in the acute period and types of surgical interventions. Complications. Chronic lung abscess. Clinic, diagnosis, treatment. Reasons for the transition of acute abscess to chronic. Drug and surgical treatment. Gangrene of the lung. Causes of development, clinical picture, diagnosis. Differential diagnostics. Principles of treatment. Results.	4	TR
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No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
	5	<p><b>"Bronchiectasis."</b>Definition of the concept. Classification according to forms of the disease and stages of development of the process. Etiology. Pathogenesis. Clinic of bronchiectasis depending on the stage of the process. Diagnostics, differential diagnostics. Indications for surgical treatment. Methods of preoperative preparation. Types of operations, postoperative management. Pleural empyema. Acute purulent pleurisy. Definition of the concept. Classification according to etiological factor, prevalence of the process. Pathways for infection to enter the pleural cavity. Clinic, diagnosis, conservative and surgical treatment. Indications for drainage of the pleural cavity (underwater drainage, constant aspiration). Chronic pleural empyema. Definition of the concept. Reasons for the transition of acute empyema to chronic. Clinic, diagnosis, treatment. Open and closed methods of treatment. Pleurectomy, pleurolobectomy, pleuropulmonectomy. Thoracoplasty.</p>	4	TR
1	6	<p><b>"Lung tumors." Benign lung tumors.</b>Classification. Central benign lung tumors. Methods of diagnostics and differential diagnostics. Principles of surgical treatment (lung resection, bronchial resection, endoscopic tumor removal), choice of treatment method, results. Peripheral benign tumors. Symptoms, methods of differential diagnosis. Surgical treatment (enucleation, marginal lung resection, lobectomy, thoracoscopic removal). Choice of treatment method. Lung cancer. Etiology, importance of smoking and unfavorable environmental factors for the development of the disease, risk groups, disease prevention. Pathological anatomy. Patterns metastasis.</p> <p>Clinicalanatomical classification. Early detection of lung cancer, the importance of fluorography. The clinical picture of central and peripheral cancer depending on the nature of growth and localization of the tumor (endobronchial, peribronchial cancer, apical cancer, subpleural cancer, the so-called "cavitary" and "mediastinal" forms). X-ray picture of forms of lung cancer, the significance of tomography, computed tomography and bronchoscopy. Indications for various research methods for various forms of lung cancer. Indications and contraindications for surgical treatment (signs of inoperability). Principles of combined treatment in improving treatment outcomes.</p>	4	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
1	7	<p><b>"Pulmonary hemorrhages."</b>Pulmonary hemorrhages. Classification of causes. Broncholithiasis, clinical picture, diagnosis, surgical treatment. Lung cancer. Causes of bleeding in lung cancer. Clinic, first aid, diagnosis, treatment, prognosis. Injuries of the trachea and bronchi. First aid. Clinic, diagnosis, treatment. Abscesses and gangrene of the lung. Causes of bleeding. Chest injuries, hemothorax. First aid, clinic, diagnosis, treatment.</p>	4	TR
	8	<p><b>"Diseases of the mediastinum."</b>Tumors and cysts of the mediastinum. Classification, clinic, diagnostics Anddifferential diagnosis. Special research methods and methods that clarify the diagnosis. Indications for surgery. Mediastinitis. Etiology, clinical picture of anterior and posterior mediastinitis. Diagnosis, treatment. Types of operations, preoperative preparation and postoperative management in patients with lung diseases. The role of oxygen therapy, physical therapy, active aspiration from the pleural cavity. Postoperative complications and measures to prevent them.</p>	4	TR, KR
	9	<p><b>"Heart defects." Congenital heart defects.</b>Research methods, special research methods. Congenital heart defects. Classification. Clinic, diagnostics and differential diagnostics. Indications for surgery. Methods of surgical treatment of non-occlusive ductus arteriosus, septal defects, tetralogy of Fallot. The use of a heart-lung machine, the principles of device design. Outcomes of operations. Acquired heart defects. Acquired heart defects. Defects of the mitral valve and other heart valves. Classification of groups of mitral defects. Degree of severity of the defect. Clinic, diagnostics. Indications and contraindications for surgery. Methods of operation. Closed methods, open methods, commissurotomy and heart valve replacement, plastic surgery on valves. Artificial heart valves.</p>	4	TR
	10	<p><b>"Ischemic heart disease, aneurysms, pericarditis."</b>Cardiac ischemia. Clinic, diagnosis, methods of surgical treatment (coronary artery bypass grafting), indications for it. Accesses. Results. Post-infarction cardiac aneurysm. Classification of post-infarction cardiac aneurysms. Frequency. Clinic, diagnostics. Indications and contraindications for surgery. Principles of surgical treatment. Pericarditis. Classification, etiology, clinical picture, diagnosis, treatment of various forms of pericarditis. Heart injuries. Clinic, diagnosis, principles of surgical treatment and postoperative management.</p>	4	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
1	eleven	<p><b>"Diseases of the aorta and its branches."</b>Methods for studying patients with vascular diseases, invasive and non-invasive methods. Aneurysms of the thoracic and abdominal aorta. Emergency operations for aneurysm rupture. Coarctation of the aorta. Clinic, diagnostics, methods of surgical treatment. Traumatic arterial aneurysms. The mechanism of their development. Clinic and diagnostics. Treatment methods. Clinical forms of obliterating arteritis and atherosclerosis. Indications for surgical treatment. Nonspecific aortoarteritis. Clinic, diagnosis, principles of treatment and their results. Diabetic micro- and macroangiopathy. Clinic, diagnosis, treatment.</p>	3	TR, KR
	12	<p><b>"Diseases peripheral arteries."</b>Atherosclerotic lesions of the arteries. Definition of the concept. Etiology, pathogenesis. Pathological anatomy. Clinical forms of obliterating arteritis and. Clinic of various forms of the disease. Diagnostics. Differential diagnostics. Conservative treatment. Indications for surgical treatment. Methods of operations. Catheter dilatation. Prevention of disease. Thromboangiitis obliterans. Etiology, pathogenesis. Forms of the disease (Winiwarter's disease, Buerger's disease). Pathological anatomy. Clinic, stages of the disease. Diagnostics and differential diagnostics. Principles of conservative treatment.</p>	3	TR, KR
	13	<p><b>"Vein diseases"</b>.Diseases of the veins of the lower extremities. Developmental defects. Clinic, diagnosis, treatment. Varicose veins of the lower extremities. Etiology, pathogenesis, pathological anatomy. Clinic of the disease depending on the stage of the disease. Diagnostics. Methods for determining the patency of deep veins, assessing the condition of the valve apparatus of superficial and communicating veins. Treatment: surgery, sclerosing therapy. Indications and contraindications for surgery. Types of operations and methods of ligation of communicating veins. Endoscopic dissection of communicating veins. Causes of recurrence of varicose veins diseases.</p> <p><b>"Thrombophlebitis, postthrombophlebitic syndrome."</b>Complications of varicose veins of the lower extremities: acute thrombophlebitis, bleeding, trophic ulcer. Clinic, diagnosis, treatment. Postthrombophlebitic disease of the lower extremities. Definition of the concept. Pathogenesis. Classification: varicose, edematous-painful, ulcerative and mixed forms. Clinic of various forms of the disease. Special diagnostic methods. Conservative treatment. Indications for surgery and types of surgical interventions.</p>	4	KR



No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
1	14	<p><b>"Phlebothrombosis and thromboembolism. Pulmonary embolism".</b> Acute thrombosis of the inferior vena cava system. Classification of localizations (thrombosis of deep veins of the leg, femoral vein, iliofemoral segment with and without transition to the inferior vena cava). Etiology and pathogenesis of venous thrombosis. Clinic of acute venous thrombosis depending on the location and extent of thrombosis. Diagnostics: ultrasound scanning, contrast venography. The role of ilio-cavography in the diagnosis of common thrombosis. Conservative treatment: application of anticoagulants, nonspecific anti-inflammatory drugs, disaggregants. Surgical treatment, indications and contraindications. Methods of surgery: thrombectomy, vein ligation, plication of the inferior vena cava, implantation of vena cava filter. Prevention of phlebothrombosis.</p> <p>Pulmonary embolism. Reasons for the development of the disease. Clinic, diagnostics (lung x-ray, radioisotope scanning, angiopulmonography in combination with registration in the right side of the heart, retrograde ilio-cavography). Treatment (use of antithrombotic and thrombolytic agents). Indications for embolectomy.</p>	3	TR, KR
<b>Semester X</b>				
2	1	<p><b>"Dysphagia syndrome."</b> Dysphagia syndrome. Achalasia cardia. Classification, clinic, diagnosis, differential diagnosis. Cardiac failure and reflux esophagitis. Pathogenesis, clinical picture, diagnosis and indications for surgical treatment. Esophageal diverticula. Classification. Clinic, diagnosis, treatment. Chemical burns and cicatricial narrowing of the esophagus. Clinic of cicatricial narrowing of the esophagus, localization and forms of narrowing. Bougienage treatment, bougienage methods, indications for them. Surgery. Foreign bodies of the esophagus. Clinic, diagnosis, treatment. Esophageal carcinoma. Clinic and diagnostics. Indications and contraindications for surgical treatment.</p>	2	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
2	2	<p><b>"Diseases of the esophagus." Benign diseases of the esophagus.</b> Research methods. Achalasia-cardia. Classification, clinic, diagnosis, differential diagnosis. Principles of treatment, cardiomydilation using a pneumatic cardiomydilatator. Technique. Indications for surgical treatment, principles of surgery. Cardiac failure and reflux esophagitis. Pathogenesis, clinical picture, diagnosis and indications for surgical treatment. Principles of surgical treatment. Esophageal diverticula. Classification. Clinic, diagnosis, treatment. Chemical burns and cicatricial narrowing of the esophagus. Pathogenesis. Acute clinic. First aid and principles of treatment in the acute period. Early and late bougienage. Clinic of cicatricial narrowing of the esophagus, localization and forms of narrowing. Bougienage treatment, bougienage methods, indications for them. Surgery. Types of plastic replacement of the esophagus (plasty of the esophagus with the stomach, small and large intestine). Single-stage and multi-stage operations. Results of surgical treatment. Foreign bodies of the esophagus. Clinic, diagnosis, treatment.</p>	2	TR, KR
	3	<p><b>"Esophageal carcinoma".</b> Incidence and frequency. Factors contributing to its development, prevention. Pathological anatomy, patterns of metastasis. Clinic and diagnostics. Indications and contraindications for surgical treatment. Preparing for surgery. Types of operations (resection of the cardia and lower esophagus, esophagectomy with plastic surgery of the greater curvature of the stomach, Torek's operation) and indications for them. Palliative operations (gastrostomy, intubation through a tumor), indications for them. Postoperative complications. Results of surgical treatment, ways to improve them. Indications for combined treatment (chemotherapy, radiation therapy), their results.</p>	2	TR, KR
	4	<p><b>"Breast diseases."</b> Anatomical and physiological information about the mammary gland. Classification of diseases. Methods for studying patients. Acute purulent mastitis. Clinic, diagnosis, treatment. Dyshormonal diseases - mastopathy. Causes of mastopathy. Classification. Clinic, diagnostics, differential diagnostics. Conservative treatment. Surgical treatment. Prevention. Benign tumors (fibroadenoma, lipoma). Clinic, diagnostics, differential diagnostics. Treatment.</p>	2	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
2	5	<p><b>"Mammary cancer"</b>.Methods for studying patients. Mammary cancer. Morbidity. Factors contributing to the development of the disease. Pathological anatomy. Pathways of cancer metastasis. Clinical forms: nodular, diffuse, infiltrating, Paget's cancer, mastitis-like and erysipelas-like cancer. International classification of breast cancer and classification by stages. Non-palpable tumors. Methods for early diagnosis of the disease, principles of surgical treatment. Indications for pre- and postoperative radiation therapy, oophorectomy, hormonal therapy, chemotherapy. Treatment results. Prevention of breast cancer.</p>	2	
	6	<p><b>"Arterial thrombosis and embolism."</b>Difference between thrombosis and embolism. Etiology of thrombosis and embolism. Factors promoting thrombosis.Embologenic diseases. Clinic of acute thrombosis and embolism (bifurcation of the aorta, main arteries of the upper and lower extremities). Degree of limb ischemia. Diagnostic methods, conservative and surgical treatment of acute thrombosis and embolism. Post-ischemic syndrome and its prevention. Principles of anticoagulant and thrombolytic therapy.</p>	2	TR, KR
	7	<p><b>"Diseases of the diaphragm."</b>Diseases of the diaphragm. Research methods. Diaphragmatic hernia. Classification. Traumatic and non-traumatic (false congenital and true) diaphragmatic hernia. Hernias of Larrey (retrocostosternal) and Bochdalek (lumbocostal). Clinic, diagnosis, indications for surgical treatment and methods of surgical interventions. Hiatal hernia. Classification. Sliding and paraesophageal hernias. Complications of hernias. Conservative treatment of sliding hernias. Indications for surgical treatment. Principles of treatment of paraesophageal hernias. Relaxation of the diaphragm. Clinic, diagnostics. Indications for surgery. Methods of diaphragm plastic surgery during relaxation</p>	2	TR, KR
	8	<p><b>"Diseases of the spleen"</b>. Diseases of the spleen. Anatomical and physiological information on the spleen. Classification of diseases. Damage, splenic infarction, splenic cysts. Clinic, diagnostics, treatment.Hematological diseases of the spleen subject to surgical treatment. Indications for splenectomy. Traumatic injuries to the spleen. Clinic, diagnosis, treatment.</p>	2	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
2	9	<p><b>“Combined trauma of the chest and abdomen.”</b>Pneumothorax. Causes. Sharp, soft and worn forms. Total and limited pneumothorax. Valvular and tension pneumothorax. Features of their development and clinical course. Diagnostics. First aid, treatment. Closed and open chest injuries (knife and gunshot). Clinic, diagnostics. Indications for surgical treatment. Conventional and thoracoscopic operations. Combined damage. The role of laparoscopy as a diagnostic and therapeutic method, diagnostic laparoscopy. Damage to tissues of the retroperitoneal space. Causes, types of damage. Clinic, diagnosis, treatment.</p>	2	TR, KR
	10	<p><b>“Combined trauma of the chest and abdomen.”</b>Heart injuries. Clinic, diagnosis, principles of surgical treatment and postoperative management. Injuries of the small and large intestine. Clinic, diagnosis, principles of surgical treatment. Liver injuries. Clinic, diagnosis, treatment. Pancreatic injuries. Clinic, diagnosis, features of surgical treatment. Closed and open abdominal trauma. Classification. Diagnostic algorithm. Operative and non-operative treatment methods.</p>	3	TR, KR
	eleven	<p><b>"Diseases thyroid glands."</b>Classification. Clinic, diagnosis, differential diagnosis. Types of operations. Indications for hemistrumectomy, extended thyroidectomy.</p>	4	TR, KR
	12	<p><b>"Thyroid cancer."</b>Classification histological and clinical. Clinic, diagnostics, differential diagnostics. Types of operations. Indications for hemistrumectomy, extended thyroidectomy. Combined treatment. Outcomes and long-term results. Prevention. Tumors of the parathyroid glands. Clinic, diagnosis, treatment.</p>	4	TR, KR
	13	<p><b>"Diseases of the retroperitoneal organs."</b>Retroperitoneal space. Damage to tissues of the retroperitoneal space: causes, types of damage. Clinic, diagnosis, treatment. Purulent-inflammatory diseases. Classification, etiology. Clinic, diagnosis, treatment.</p>	4	TR, KR
	14	<p><b>"Tumors of the retroperitoneal space."</b>Hormonally inactive retroperitoneal tumors. Classification, diagnosis, treatment. Hormonally active tumors (androsteroma, aldosteroma, pheochromocytoma). Pathological anatomy. Clinic, diagnosis, treatment</p>	2	TR, KR
Semester XI				

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
	1	<p><b>"Diseases of the operated stomach."</b>Unhealed and recurrent ulcers, peptic ulcers of the jejunum, afferent loop syndrome and dumping syndrome. Reflux gastritis and reflux esophagitis. Causes of occurrence. Clinic, diagnostics. Indications for surgical treatment, methods of reconstructive operations. Prevention of postoperative complications: bleeding, paresis of the stomach and intestines, anastomositis, dehiscence of the duodenal stump and gastrointestinal anastomoses, peritonitis, pulmonary complications, etc.</p>	3	TR, KR
3	2	<p><b>"Gastrointestinal bleeding."</b>Bleeding ulcer of the stomach and duodenum. Pathological anatomy. Pathogenesis of violations of the main links of homeostasis. Clinic and diagnosis of gastrointestinal bleeding.</p> <p>Differential diagnostics.Conservative and surgical treatment of bleeding ulcers. Endoscopic methods for stopping bleeding. Mallory-Weiss syndrome. Reasons for the development of the disease. Clinic and diagnostics, differential diagnostics. Conservative and surgical treatment. Bleeding from dilated veins of the esophagus and cardia. Differential diagnosis, first aid, Blackmore probe, etc. Conservative treatment. Methods of medical and surgical treatment (Tanner type surgery, direct and indirect portocaval anastomoses, endoscopic operations). Differential diagnosis of intestinal bleeding.</p>	4	TR, KR
	3	<p><b>"Portal hypertension."</b>Portal hypertension. Etiology and pathogenesis. Hypersplenism: clinical picture and diagnosis. The meaning of splenoportography and splenoportometry. Indications and contraindications for surgical treatment of portal hypertension. Principles of surgical treatment. Bleeding from dilated veins of the esophagus and cardia. Differential diagnosis, first aid, Blackmore probe, etc. Conservative treatment. Methods of medical and surgical treatment (Tanner type surgery, direct and indirect portocaval anastomoses, endoscopic operations). Budd-Chiari syndrome. Clinic, diagnosis, treatment.</p>	4	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
3	4	<p><b>"Differential diagnostics jaundice."</b>Obstructive jaundice as a complication of cholelithiasis, causes of development. Clinic. Diagnostics (ultrasound, ERCP, percutaneous hepatocholangiography).Differential diagnosis, pathogenesis of disorders of the main links of homeostasis (functions of the liver, kidneys, hemostasis system, rheological properties of blood, etc.). Drug therapy for obstructive jaundice, detoxification methods. Endoscopic method of treating patients with obstructive jaundice (papillectomy, lithoextraction,naso-biliary drainage,endobiliary lithotripsy). Indications and choice of surgery. Pancreas cancer. Complications of pancreatic head cancer. Clinic, diagnostics, differential diagnostics. Treatment (radical, palliative). Biliary tract cancer. Clinic, diagnostic methods, surgical treatment.</p>	4	TR, KR
	5	<p><b>"Tumors of the pancreas."</b>Pancreas cancer. Morbidity, factors contributing to development. Clinic. Diagnosis and differential diagnosis. Surgical treatment: radical surgery for pancreatic cancer. Palliative operations. Hormone-active pancreatic tumors glands. Clinic, diagnosis, treatment, causes of relapses and diagnostic difficulties.</p>	4	TR, KR
	6	<p><b>"Acute belly."</b>Acute stomach. Perforated stomach ulcer and duodenum. Classification of perforations, pathological anatomy. Clinic of perforated ulcers in the free abdominal cavity (periods of the disease). Clinic of covered and atypical perforations. Diagnostics and differential diagnostics. Therapeutic tactics for various types of perforated ulcers. Types of operations. Peritonitis as a complication of acute appendicitis. Features of surgical intervention depending on the prevalence of peritonitis. Indications for laparostomy, technique and management of the patient in the postoperative period.</p>	4	TR, KR
	7	<p><b>"Acute belly."</b>Complications of colon cancer (intestinal obstruction, perforation, bleeding). Intestinal obstruction as a cause of acute abdomen. Injuries of the small and large intestine. Clinic, diagnosis, principles of surgical treatment. Acute disorders of mesenteric circulation. Acute cholecystitis. Complications (peritonitis, subhepatic abscess, gallbladder empyema, cholangitis). Clinic, diagnosis, treatment. Acute pancreatitis. Therapeutic endoscopy. Purulent complications. Pancreatic injuries. Peritonitis. Classification. Etiology, pathogenesis. Differential diagnostics. Complex treatment.</p>	3	TR, KR

No. section	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
3	8	" <b>Transplantation of organs and tissues.</b> "Transplantation of organs and tissues. Scientific foundations of transplantology. Sources. Canning and tissue banking. Organ preservation and banking. The recipient's reaction to foreign organs and tissues. Histocompatibility in transplantology. Rejection crises during transplantation. Immunodepressive (suppressive) therapy. Characteristics of tissue and organ transplants. Stimulating and replacement therapy. Transplantation of bones, blood vessels, serous membranes, integumentary epithelium, endocrine organs, vital organs, limbs.	3	TR
	9	" <b>Symptomatic hypertension in surgery.</b> "Symptomatic hypertension. Classification. Etiology, pathogenesis. Clinic, diagnosis, indications for symptomatic and surgical treatment. Vasorenal hypertension. Clinic, diagnosis, treatment. Operations: endarterectomy, renal artery resection, stenting and bypass surgery.	3	TR, KR

1Forms of current control

1. Theoretical analysis of the topic (TR);
2. Clinical analysis (including in the ward) (CR);
3. Writing an academic medical history (to assess the degree of mastery of the material with an analysis of any inaccuracies or errors) (AIB);

#### 4.3. Independent work of students

Secti on no. A	Type of independent work of students	By ho ur ov	Forms of current controll
Semester IX			
1	Writing a medical history	14	TR, KR, AIB
	Preparation for classes	14	
	Preparation for current control	16	
Semester X			
2	Preparation for classes	10	TR, KR, TK, S, KPN
	Preparation for current control	10	
	Preparing for testing	8	

Semester XI		
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Section no. A	Type of independent work of students	By hour ov	Forms of current control
3	Preparation for classes Preparation for intermediate certification	10 18	TR, KR, SZ, S

1Forms of current and intermediate control

1. Theoretical analysis of the topic (TR);
2. Clinical analysis (including in the ward) (CR);
3. Control over the development of practical skills during the supervision of a patient, during a test lesson (CPN);
4. Writing an academic medical history (to assess the degree of mastery of the material with an analysis of any inaccuracies or errors) (AIB);
5. Test control of knowledge according to monitoring and training programs (TC);
6. Solving situational problems (SZ);
7. Interview on control questions (C).

#### 4.4. List of educational and methodological support for independent work of 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 EBS "Student Advisor" - 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 EBS "Student Advisor" - Text: electronic.
4. 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.
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. Kiriyenko. - 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. Kiriyenko. - 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 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. 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.
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 medical help.  
<https://www.rosminzdrav.ru/opendata/7707778246-utverdenniestandartimedicinskoipomoshi/visual>

### 6.2. additional literature

1. Vascular surgery: national guide. Brief edition / ed. V.S. Savelyeva, A.I. Kiriyyenko; Ross. Society of Surgeons. – M.: GEOTAR-Media, 2015. -457 p.
2. Mikhailov I. B. Chronic venous insufficiency of the lower extremities: choice of medications: method. manual for doctors / I.B. Mikhailov; S.-Petersburg state pediatrician. honey. acad. - St. Petersburg: Adamant, 2012. - 15 p.
3. Kirienko A.I. Venous thrombosis in the practice of a therapist and surgeon / A.I. Kirienko, E.P. Panchenko, V.V. Andriyashkin. – M.: Planida, 2012. - 328 p.
4. Fundamentals of clinical phlebology /author coll.: V.A. Batrashov, V.G. Gudymovich, M.N. Zamyatin [etc.]; edited by Yu.L. Shevchenko, Yu.M. Steadily; National medical surgeon Center named after N.I. Pirogov. - 2nd ed., rev. and additional –M.: Shiko, 2013. – 335 p.
5. 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.
6. 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: <a href="http://109.195.230.156:9080/opac/">http://109.195.230.156:9080/opac/</a>	–	Unlimited access
Student Advisor[Kits: “Medicine. Healthcare. IN”; “Medicine. Healthcare. SPO”; “Psychological Sciences”]: Electronic library system. – Moscow: LLC “Polytekhresurs” - URL: <a href="https://www.studentlibrary.ru">https://www.studentlibrary.ru</a> + opportunities for inclusive education	+	Unlimited access
Doctor's consultant. Electronic medical library: Electronic library system. – Moscow: LLC “Higher School of Organization and Management of Healthcare. Comprehensive medical consulting.” -	-	Unlimited access

	URL: <a href="http://www.rosmedlib.ru">http://www.rosmedlib.ru</a> +	
	opportunities for inclusive education	
	<b>Scientific electronic library 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 library computers
	<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> )	Unlimited access
	<b>Wiley Online Library</b> / John Wiley & Sons. - URL: <a href="http://onlinelibrary.wiley.com">http://onlinelibrary.wiley.com</a> via IP addresses of RostSMU and remotely after registration (National Project)	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> via IP addresses of RostSMU and remotely after registration (National Project)	Lifetime subscription
	<b>Sage Publication:</b> [full-text collection of electronic books eBook Collections]. – URL: <a href="https://sk.sagepub.com/books/discipline">https://sk.sagepub.com/books/discipline</a> by IP addresses of RostSMU (National Project)	Lifetime subscription
	<b>Ovid Technologies:</b> [Full-text archived collection of 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> )	Lifetime subscription
	<b>Questel database Orbit Premium edition:</b> patent search database <a href="http://www.orbit.com/">http://www.orbit.com/</a> by IP addresses of RostSMU (National Project)	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 ; "Open Access" section. - URL: <a href="https://cochranelibrary.com/about/open-access">https://cochranelibrary.com/about/open-access</a>	Open access content
	<b>Cochrane Russia</b> : Russian department Cochranecooperation / 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	Free
for doctors and students]. - URL: <a href="https://mirvracha.ru">https://mirvracha.ru</a> .	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 [on biomedical research of 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
<i>Cyberleninka Open Science Hub : open scientific electronic library publications on foreign languages – URL:</i> <a href="https://cyberleninka.org/">https://cyberleninka.org/</a>	Content open that access
<b>Scientific heritage of Russia: e</b> <a href="http://www.e-heritage.ru/">electronic library /</a> 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.prlib.ru/collections">https://www.prlib.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>	Open access content
<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>	Open access content
<b>Lvrach.ru:</b> honey. scientific-practical portal [largest prof. resource for doctors and honey. 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; section "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>	Open access content
<b>Taylor &amp; Francis. Dove Medical Press. Open access journals:</b> magazines open access. – 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>	Open access content
<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>	Open access content
<b>Archive scientific magazines /</b> NP NEICON. - 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 journals 121 countries peace,V medicine, biology, chemistry]. incl. in -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	Open access
electronic edition. - URL: <a href="http://www.medline.ru">http://www.medline.ru</a>	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: <a href="http://who.int/ru/">http://who.int/ru/</a>	Open access
<b>Ministry Sciences And higher education</b> Russian Federation: official website. - URL: <a href="http://minobrnauki.gov.ru/(search_engine_Yandex_system)">http://minobrnauki.gov.ru/(search engine Yandex system)</a>	Open access
<b>Modern problems of science and education:</b> electron. magazine. Online publication. - URL: <a href="http://www.science-education.ru/ru/issue/index">http://www.science-education.ru/ru/issue/index</a>	Open access
<b>Dictionaries And encyclopedias on Academician.</b> - URL: <a href="http://dic.academic.ru/">http://dic.academic.ru/</a>	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. Guidelines for taking a medical history

Patient supervision and writing an educational medical history contribute to the formation of skills to correctly diagnose and formulate diagnoses of a malignant neoplasm with an assessment of the stage and clinical group; skills in prescribing adequate (therapeutic and surgical) treatment to sick children and adolescents in accordance with the diagnosis.

Taking a medical history is a learning process consisting of several stages:

- organizing students' work and preparing for patient supervision,
- direct supervision of the patient,
- work of students with the results of additional methods of examining the patient,
- independent work of the student with additional sources of information,
- registration of medical history.

The teacher must familiarize students with the requirements for completing a medical history, the features of examining a patient in relation to the discipline being studied, and assessment criteria before the start of supervision. The teacher controls the actions of students during supervision.

For supervision, the teacher selects patients whose pathology character corresponds to the diseases studied within the academic discipline. The teacher should not inform the student about the diagnosis and treatment before the student begins direct work at the patient's bedside.

The teacher provides the student with data from additional research methods necessary to complete the medical history.

During supervision, the student must strictly observe the principles of medical ethics and deontology, medical confidentiality, the medical and protective regime of the medical and preventive institution, and strictly comply with the requirements of medical personnel.

The student is required to provide supervision within the allotted time. Work with medical documentation must be carried out in a designated place; removal of medical documentation outside the premises is strictly prohibited. If necessary, the student has the opportunity to contact the teacher for clarification regarding information about additional research methods set out in the medical documentation.

The student completes a medical history while studying the academic discipline and submits it to the teacher within the prescribed time frame.

During the test lesson, when defending a medical history (report on the medical history), the student can freely use the medical history when answering the questions posed. The student must know and be able to explain and comment on any fragment of the medical history he has written.

2. First and emergency aid for injuries and diseases of the breast organs / comp.: I.I. Katelnitsky, V.A. Emelyanov, I.M. Sorokivsky. - Rostov n/d: Publishing house of Rostov State Medical University, 2011. -62 p. The same [Electronic resource]: electronic copy. – Access from EUB RostSMU.

3. Educational and methodological recommendations for writing a medical history in surgical disciplines / compiled by: I.I. Katelnitsky, N.G. Saprionova, S.V. Lukyanov, Ig.I. Katelnitsky. – Rostov n/d: Publishing house Rostov State Medical University, 2013. -44 p. The same [Electronic resource]: electronic copy. – Access from EUB RostSMU.

4. A manual for mastering practical skills in surgical disciplines: educational and methodological manual for students of the medical and preventive faculty / I. I. Katelnitsky, S. V. Lukyanov, N. G. Saprionova [etc.]; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2015. – 299 p. : ill. – Access from RostSMU Electronic Library. – Text: electronic.

5. Collection of problems in the discipline “Hospital surgery, pediatric surgery”: collection of situational problems: [for students of the medical and preventive faculty] / I. I. Katelnitsky, S. V. Lukyanov, N. G. Saprionova, Ig. I. Katelnitsky; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2016. – 66 p. – Access from RostSMU Electronic Library. – Text: electronic.

6. Methods and volume of revascularization in patients with critical ischemia of the lower extremities: educational manual for students and doctors / I. I. Katelnitsky, Ig. I. Katelnitsky, N. G. Saprionova, S. V. Lukyanov; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2014 – 32 p. : ill. – Access from RostSMU Electronic Library. – Text: electronic.

7. Saprionova, Natalia Germanovna. Portal hypertension: principles of diagnosis and surgical treatment: a textbook for medical students. universities / N. G. Saprionova; Height. state honey. university, department surgical diseases No. 1. - Rostov-on-Don: RostSMU, 2019. - 119 p. : ill. – Access from RostSMU Electronic Library. – Text: electronic.

8. Katelnitsky, Igor Ivanovich. Current trends in conservative and surgical correction of peripheral blood flow in patients with critical ischemia of the lower extremities: a textbook for doctors, interns, residents: recommended Coordination. Council on Education "Health and Medical Sciences" / Ig.I. Katelnitsky; Height. state honey. university, department surgeon. diseases No. 1. - Rostov-on-Don: RostSMU, 2019. - 102 p. : ill. The same [Electronic resource]: electronic copy. – Access from EUB RostSMU.

9. Hospital surgery: situational tasks: textbook: [for students] / comp. S. V. Lukyanov, N. G. Saprionova, Ig. I. Katelnitsky, D.V. Stagniev; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2020. – 89 p. – Access from RostSMU Electronic Library. – Text: electronic.

10. New approaches to the prevention of thrombosis in the postoperative period in patients with critical ischemia of the lower extremities of atherosclerotic etiology: textbook: [for students of the medical and preventive faculty] / Ivan Ivanovich Katelnitsky, Natalia Germanovna Saprionova, Ekaterina Sergeevna Livadnyaya; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2020. – 83 p. : ill., table. – Access from EB RostSMU. – Text: electronic.
11. 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.
12. Modern possibilities for the prevention of venous thromboembolic complications during laparoscopic interventions in high-risk patients: a textbook [for medical students] / Ig. I. Katelnitsky, M.A. Burikov, I.V. Skazkin, E.S. Livadnyaya; Height. state honey. university, department surgeon. diseases No. 1. – Rostov-on-Don: RostSMU, 2023. – 108 p. : ill., table. – Access from RostSMU Electronic Library. – Text: electronic.

## VII. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE

### 7.1. Educational and laboratory equipment.

Lecture auditorium of the Department of Surgical Diseases No. 1 on the first floor of the surgical building of Rostov State Medical University, equipped with a board for markers (1), tables (4), a stand-lectern (1), chairs (10), a X-ray viewer (1), lecture presentations (18) on PC.

Training rooms (6) for practical training, equipped with tables (6), chairs (90), sets of radiographs (10), and a stand for assessing practical skills (1).

### 7.2. Technical and electronic means.

Name of special* premises and premises for independent work	Equipping special rooms and rooms for independent work
1	2
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38, clinic and department of hospital surgery (Liter: B) (building 10), 1st floor, lecture room No. 1, classroom for classes lecture type, consultations, ongoing monitoring, intermediate certification	The room is equipped with seats (80), technical teaching aids: multimedia projector, computer, blackboard
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214, clinic and department of gynecology (Liter: E) (building 11), 1st floor, department of surgical diseases No. 1, training room No. 1, room for practical classes, current control, intermediate certification	The room is equipped with educational furniture (table, 15 chairs), technical teaching aids: laptop, MFP, blackboard
Federal State Budgetary Educational Institution of Higher Education Rost State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don,	The room is equipped with educational furniture (table, chairs-15), technical means

lane Nakhichevansky, 38/57-59/212-214, clinic and department of gynecology (Liter: E) (building 11), 2nd floor, department of surgical diseases No. 1, training room No. 2, room for practical classes, current control, intermediate certification	training: computer, printer, educational board
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214, clinic and department of gynecology (Liter: E) (building 11), 2nd floor, department of surgical diseases No. 1, training room No. 3, room for classes practical type, current control, intermediate certification	The room is equipped with educational furniture (table, 15 chairs), technical teaching aids: computer, MFP, X-ray viewer, blackboard
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214, clinic and department of gynecology (Liter: E) (building 11), 2nd floor, department of surgical diseases No. 1, training room No. 4, room for practical classes, current control, intermediate certification	The room is equipped with educational furniture (table, 15 chairs), technical teaching aids: computer, printer, blackboard
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214 clinic and department of gynecology (Liter: E) (building 11), 1st floor, department of surgical diseases No. 1, training room No. 5, room for practical classes, current control, intermediate certification	The room is equipped with educational furniture (table, 15 chairs), technical teaching aids: blackboard, X-ray viewer
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214, clinic and department of gynecology (Liter: E) (building 11), 1st floor, department of surgical diseases No. 1, educational and methodological room, room for conducting practical classes, ongoing monitoring, intermediate certification	The room is equipped with educational furniture (table, 15 chairs), technical teaching aids: X-ray viewer, educational board, visual material (1 stand)
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214, clinic and department of gynecology (Liter: E) (building 11), 1st floor, department of surgical diseases No. 1, office of the head of the department, room for practical classes, routine control, intermediate certification	The room is equipped with educational furniture (2 tables, chairs-15), technical teaching aids: computer, MFP, multimedia projector
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane.	The room is equipped with furniture for storing educational equipment, technical means for preventive maintenance of educational equipment: tables - 2, chairs - 4,



Nakhichevan, 38/57-59/212-214, clinic and department of gynecology, (Liter: E) (building 11), 1st floor, department of surgical	technical equipment for cleaning premises
diseases No. 1, laboratory room, storage and preventive maintenance room educational equipment	
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38, clinic and department of hospital surgery (Liter: B) (building 10), 1st floor, classroom, room for classes practical type, current control, intermediate certification	The room is equipped with educational furniture (table, 15 chairs), technical teaching aids: blackboard
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevan, 38/57-59/212-214, educational and laboratory building (Liter: A-Ya), 2nd floor, specialized premises for independent work – library reading rooms	Computer equipment with an Internet connection and access to the EIOS RostSMU
Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia, 344022, Rostov region, Rostov-on-Don, lane. Nakhichevan, 38, medical and diagnostic building (Liter: B-A), 6th floor, specialized premises for independent work, department of automation and monitoring of training quality	Computer equipment with an Internet connection and access to the EIOS RostSMU