Khanty-Mansiysk Autonomous Okrug-Ugra "Surgut State University"

Approved by Deputy Rector for Academic Affairs

_____ E.V. Konovalova

"15" June 2023, Record No. 5

General surgery

Syllabus

Department	Surgical diseases	
Curriculum	s310501-ЛечДелоИн-23-3.plx Specialty 31.05.01 General Medicine	
Qualification	General Practitioner	
Form of education	Full-time	
Total (in credits)	6	
Total academic hours including:	216	Control: Exam 6 th term
Contact	144	
Self-study	45	
Control hours	27	

Course outline in terms

Academic year (Term)	5 (3.1)		6 (.	3.2)	Total		
Weeks	17 2/6		16	4/6			
Types of classes	Cur	Syl	Cur	Syl	Cur	Syl	
Lectures	16	16	16	16	32	32	
Practical	56	56	56	56	112	112	
Contact	72	72	72	72	144	144	
Self-study	36	36	9	9	45	45	
Control			27	27	27	27	
Total	108	108	108	108	216	216	

The Syllabus is compiled by: Doctor of Medicine, Professor, Darvin V.V. _____ Senior lecturer, Yakovlev D.S. _____

The Syllabus General surgery

Developed in accordance with Federal State Educational Standard: Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988)

Based on the Curriculum: 31.05.01 GENERAL MEDICINE Specialization: General Medicine Approved by the Academic Council of Surgut State University, "15" June 2023, Record No. 5

The Syllabus was approved by the Department **Surgical diseases**

Head of Department, Doctor of Medicine, Professor, Darvin V.V.

	1. COURSE OBJECTIVES
1.1	The aim of the General Surgery course in higher medical schools is to study the main pathological states in surgery, necessary surgical skills for the examination of patients.
	2. COURSE OVERVIEW
Course	code (in curriculum): b1.0.04
2.1	Assumed background:
2.1.1	Human anatomy
2.1.2	Biochemistry
2.1.3	Normal physiology
	Post-requisite courses and practice:
	Disaster Medicine
2.2.2	Anesthesiology, intensive care, intensive care
2.2.3	Oncology, radiation therapy
2.2.4	Otorhinolaryngology
	3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)
PC-1.1: I	Demonstrates knowledge in etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory,
	ntal, identifes the patient's common pathological conditions, symptoms, disease syndromes and diagnoses nosological forms g to the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions
PC-1.2: 0	Carries out diagnostics, evaluates the prognosis (short-, medium- and long-term course) of the disease, identifies acute
complica	tions and complications of chronic diseases
the neces	Examines the patient (handle the patient's complaints, anamnesis, physical data based on the examination results, determines sary examination plan, evaluates the parameters of laboratory, instrumental, pathological and anatomical and other methods o diagnose diseases, assesses the prognosis (short-, medium-, long-term) of its course and outcomes
	Makes an inital and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Health X - XI revisions and current clinical classifications
PC-3.3: 0	Carries out early and differential diagnostics of diseases
	Provides routing and management of patients based on the current legislation (standards, procedures for the provision of care, Clinical guidelines)
	Demonstrates knowledge of the mechanisms and methods applied in pharmacotherapy, medical nutrition, medical devices
	ods of non-drug treatment, palliative and personalized medical care Provides various categories of patients with outpatient treatment, treatment in hospitals and high-tech medical care (HMC)
	poplying drugs, medical devices and medical nutrition, according to clinical pattern and current procedures, standards of
	care, Clinical guidelines (treatment protocols)
PC-8.2: I	Keeps medical records, including the electronic format
By the en	nd of the course students must:
3.1	Know:
3.1.1	-Hygienic aspects of nutrition, hygiene of medical organizations, hygienic problems of health care for the working population
3.1.2	-Etiology, pathogenesis and prevention measures of the most common diseases; modern classification of diseases
3.1.3	-The clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in different age groups.
3.1.4	-Diagnostic methods, diagnostic capabilities of methods of direct examination of the patient of therapeutic, surgical and infectious profile, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic, X-
	ray methods, ultrasound diagnostics)
	-Criteria for the diagnosis of various diseases
	-Clinical manifestations of major surgical syndromes.
3.1.7	-Types and methods of modern general anesthesia (mask, endotracheal, intravenous), methods and methods of prevention of postoperative pulmonary complications, features of management of comatose patients, intensive therapy for patients who have suffered critical conditions.
3.1.8	-Features of first aid and resuscitation measures for victims of auto-road injuries, drowning, electrical trauma, strangulation asphyxia, methods of restoring the patency of the upper respiratory tract
3.1.9	-Clinical symptoms of damage to the musculoskeletal system, chest, abdominal cavity, pelvic cavity, head and skull cavity; methodology for determining the area of the burn surface, features of applying contour bandages in burn disease and cold injury.
3.2	Be able to:
3.2.1	-Determine the patient's status: collect anamnesis, conduct a patient survey (examination, palpation, auscultation, blood
	pressure measurement, etc.) assess the patient's condition to make a decision about the need to provide him with medical care, conduct an initial examination of systems and organs

	- Set priorities for solving the patient's infectious disease, disability, geriatric					omiting, a condition with an				
	- Outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result.									
3.2.4	-Determine by X-ray the presence of a fracture and dislocation, free gas in the abdominal cavity, hydro-pneumothorax									
3.2.5	- Choose an individual type of assista ambulance, hospitalization.	nce for the t	reatment of	the patient in ac	cordance with the	he situation: primary care,				
3.2.6	- Formulate clinical diagnosis									
3.2.7	-Develop a plan of therapeutic (surgic	al) actions, t	taking into a	account the cour	rse of the disease	e and its treatment.				
	-Formulate indications for the chosen pharmacotherapy in a particular paties administration, regimen and dose of n	nt with majo nedications,	r pathologic evaluate the	e effectiveness a	nd urgent condit and safety of the	tions, determine the route of treatment				
	-Examine patients with various traum disorders, apply transport tires, banda assess the suitability of blood and its	ge and kerch preparations	nief bandage for transfus	es, inject medication, monitor he	ations through di	rains and microirrigators,				
	-Carry out resuscitation measures in t									
	- Treat the hands before surgery and s change sterile gloves, a sterile dressin									
3.3	Have skills of:									
3.3.1	- Demonstrating methods of general c									
	- Interpretation of the results of labora	-	-	nostic methods						
	 Making detailed clinical diagnosis b 	-	-							
3.3.4	- Making a preliminary diagnosis with	-		-		•				
3.3.5	- Providing first aid in urgent and lif		-	-	-	-				
	4. STRUCTURE		•			T				
Class Code	Topics /Class type	Term / Academic	Academic hours	Competences	Literature	Interactive				
		year								
1.1	Introduction to the surgical clinic. Organization of the work of the surgical department, the operating unit, the reception department.	year 5	2	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test				
1.1	Organization of the work of the surgical department, the operating		2		2.1	Oral quiz, test Oral quiz, test				
	Organization of the work of the surgical department, the operating unit, the reception department. Introduction to the surgical clinic. Organization of the work of the surgical department, the operating	5		PC-5 PC-8 PC-1 PC-3	2.1 3.1 1.1 2.1					

	-					
2.3	Asepsis, prevention of contact and implantation infection. Principles of asepsis, organization of work and structure of the operating unit. Sterilization of surgical clothing, surgical gloves, suture material, surgical instruments. Stezilization, UFO, ionizing, ultrasonic radiation. Preparation of the surgeon's hands for surgery.	5	4	PC-5 PC-8		Oral quiz, test
	Asepsis, prevention of contact and implantation infection. Principles of asepsis, organization of work and structure of the operating unit. Sterilization of surgical clothing, surgical gloves, suture material, surgical instruments. Stezilization, UFO, ionizing, ultrasonic radiation. Preparation of the surgeon's hands for surgery. Cleaning of the	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	Antiseptics and aseptics. Modern principles and methods of antiseptics. Mechanical, physical, chemical and biological antiseptics. Hospital infection, its prevention. Order No. 720.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	Injuries. Dysmurgia. Thermal lesions. Electrical injuries. Cold injury.	5	2	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	Wounds, features of the course of the wound process. Primary surgical treatment of wounds.	5	2	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	The concept of traumatism. Characteristics of external factors. Classification of injuries. Dislocations.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	Bone fractures. Clinic, diagnostics. Methods of treatment. Desmurgy, types of dressing material, bandaging technique. Types of bandages. Transport and medical immobilization.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	Thermal lesions. Burns. Methods for determining the area of the lesion. Burn shock. Radiation damage. Features of radiation burns. Burn disease. Electrical injuries.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
	Cold lesions- frostbite. The concept of "pre -reactive" and "reactive period". General hypothermia. Basic principles of treatment.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test

3.7	Wounds, features of the course of the wound process, phases of the flow. Wound infection. Primary surgical treatment of wounds (PHO). The main modern principles of treatment of purulent wounds (adequate wide opening and drainage of a purulent wound,	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
3.8	Injuries. Desmurgy. Thermal lesions. Electrical injuries. Cold injury.	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
3.9	Wounds, features of the course of the wound process. Primary surgical treatment of wounds.	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
4.1	Infection in surgery. Wound infection. Purulent diseases of soft tissues. Osteomyelitis.	5	2	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
4.2	Acute specific purulent infection in surgery. Anaerobic infection. A common purulent infection is sepsis. Terminology. Theory of sepsis. Classification, etiology, pathogenesis, clinic, diagnosis. Basic principles of treatment.	5	2	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
4.3	Infection in surgery. Wound infection. Purulent diseases of the skin, subcutaneous tissue, tendons, (carbuncle, abscess, phlegmon). Purulent diseases of the glandular organs (mastitis, mumps).	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
4.4	Purulent diseases of the hand. Panaricius. Pandactyl. Modern principles of treatment.	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
4.5	Acute and chronic osteomyelitis. Classification, features of the clinical course of hematogenic and posttraumatic osteomyelitis. Modern principles of local and general treatment. Atypical forms of chronic osteomyelitis.	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
4.6	A common purulent infection is sepsis. Terminology. Theory of sepsis. Classification, etiology, pathogenesis, clinic, diagnosis. Basic principles of treatment.	5	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test

4.7	Necrosis, gangrene. Bedsores. Fistulas. Acute and chronic arterial patency disorders. The main types of necrosis. General principles of treatment.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
4.8	Infection in surgery. Wound infection. Purulent diseases of soft tissues. Osteomyelitis.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
4.9	Acute specific purulent infection in surgery. Anaerobic infection. A common purulent infection is sepsis. Terminology. Theory of sepsis. Classification, etiology, pathogenesis, clinic, diagnosis. Basic principles of treatment.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
5.1	Modern principles of radiation diagnostics of surgical diseases of the abdominal cavity, chest.Current principles of radiation diagnostics of diseases of the bone and joint system. Methods of interventional radiology in surgery.	5	2	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
5.2	Modern principles of radiation diagnostics of surgical diseases of the abdominal cavity, chest.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
5.3	Modern principles of radiation diagnostics of diseases of the bone and joint system. Methods of interventional radiology in surgery.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
5.4	Radiation diagnostics of emergency conditions. Properties of X-rays. Physics, dosimetry. Methods of X- ray studies	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
5.5	Modern principles of radiation diagnostics of surgical diseases of the abdominal cavity, chest.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
5.6	Modern principles of radiation diagnostics of diseases of the bone and joint system. Methods of interventional radiology in surgery.	5	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test

6.1	Shock. Etiology, pathogenesis, main types of shocks. Basic principles of treatment. Resuscitation. The concept of terminal states. Classification, clinical picture. Cardiopulmonary resuscitation. Indications, technique of execution. The concept of "brain death",	6	2	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
6.2	Resuscitation. The concept of terminal states. Classification, clinical picture. Cardiopulmonary resuscitation. Indications, technique of execution. The concept of "brain death", diagnostic criteria. Anesthesiology. History of anesthesia. Theory of anesthesia. Types of general anesthesia. Modern combined anesthesia. Local anesthesia, types of local anesthesia. The main types of regional anesthesia. Blockades, rules for their implementation, criteria for	6	2	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
6.3	Shock. Etiology, pathogenesis, classification. Basic principles of treatment. Resuscitation. Classification, clinical picture. Cardiopulmonary resuscitation. Indications, technique of execution. The concept of "brain death",	6	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
6.4	Terminal states.Criteria, classification. A complex of therapeutic and diagnostic measures depending on the stage.	6	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
6.5	Anesthesiology. History of anesthesia. Local anesthesia, types of local anesthesia. The main types of regional anesthesia. Blockades, rules for their implementation, criteria for the effectiveness of anesthesia or blockades.	6	4	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
6.6	Shock. Etiology, pathogenesis, classification. Basic principles of treatment.	6	1	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
6.7	Resuscitation. The concept of terminal states. Classification, clinical picture. Cardiopulmonary resuscitation. Indications, technique of execution. The concept of "brain death", diagnostic criteria.	6	1	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
7.1	Surgical operations. Classification, the main types of surgical interventions, their stages. The concept of pre- and postoperative period. The concept of premedication, its purpose and objectives.	6	2	PC-1 PC- 3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test

7.2	Surgical operations. Classification, the main types of surgical interventions, their stages. The	6	4	PC-1 PC- 3 PC-5	L1.1 L2.1 L3.1	Oral quiz, test
	concept of pre- and postoperative period. The concept of premedication, its purpose and objectives.			PC-8		
7.3	Surgical operations. Classification, the main types of surgical interventions, their stages. The concept of pre- and postoperative period. The concept of premedication, its purpose and objectives.	6	1	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.1	Bleeding. Classification, local and general clinical symptoms. Degrees of blood loss. Haemorrhagic shock. Methods of temporary and final stopping of bleeding. Regulation of the RASK system. Complex hemostatic therapy. Basic questions	6	2	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.2	General principles of infusion- transfusion therapy in surgery. Classification of infusion- transfusion media. Transfusion of blood and blood substitutes. Determination of blood by the ABO system and Rh factor.	6	2	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.3	Bleeding. Classification, local and general clinical symptoms. Degrees of blood loss. Haemorrhagic shock. Methods of temporary and final stopping of bleeding. Regulation of the RASK system. Complex hemostatic therapy. Basic questions	6	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.4	General principles of infusion- transfusion therapy in surgery. The concept of water- electrolyte balance. Classification of infusion- transfusion media. Methods of conducting and monitoring the effectiveness of therapy.	6	4	PC-1 PC- 3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.5	Determination of the blood group of the blood by the ABO system and the Rh factor. The technique of conducting individual tests for the compatibility of donor and recipient blood according to ABO and Rh factor. Ottenberg's rule for blood transfusion and blood substitutes.	6	4	PC-1 PC-3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.6	Transfusion of blood and blood substitutes. Organization of the donation service in Russia. Absolute and relative indications for blood transfusion and blood substitutes. Techniques and types of blood transfusions.	6	4	PC-1 PC-3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test
8.7	Blood transfusion media and blood preparations: erythromass, thrombomass, plasma, correction of the hemostasis system. Complications of blood transfusion, their prevention.	6	4	PC-1 PC-3 PC-5 PC-8	L1.1 L2.1 L3.1	Oral quiz, test

8.8	Bleeding. Classification, local and	6	1	DC 1 DC 2	1.1	Oral quiz, test
	general clinical symptoms. Degrees of blood loss. Haemorrhagic shock. Methods of temporary and final stopping of bleeding. Regulation of the RASK system. Complex hemostatic therapy. Basic questions			PC-1 PC-3 PC-5 PC-8	2.1 3.1	
8.9	Transfusion of blood and blood substitutes. Organization of the donation service in Russia. Absolute and relative indications for blood transfusion and blood substitutes. Techniques and types of blood transfusions.Blood transfusion media and blood preparations: erythromass, thrombomass, plasma, correction of the hemostasis system.	6	1	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
8.10	Determination of the blood group of the blood by the ABO system and the Rh factor. The technique of conducting individual tests for the compatibility of donor and recipient blood according to ABO and Rh factor. Ottenberg's rule for blood transfusion and blood substitutes.	6	1	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
9.1	Tumors. Definition. The concept of benign and malignant tumors. Etiology- theory of carcinogenesis, classification of tumors, international TNM system, stages of the disease. Diagnosis, basic principles of treatment.	6	2	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
9.2	Tumors. Definition. The concept of benign and malignant tumors. Etiology - theory of carcinogenesis, classification of tumors, international TNM system, concept and criteria of disease stages.	6	4	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
9.3	Tumors. Diagnosis, general principles of treatment. Types of specialized treatment (radiation. chemotherapy). Surgical treatment options. Possible complications of diseases. The concept of a "clinical group", criteria for the distribution of cancer patients in a particular group. Rehabilitation of cancer	6	4	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
9.4	Tumors. Definition. The concept of benign and malignant tumors. Etiology- theory of carcinogenesis, classification of tumors, international TNM system, stages of the disease. Diagnosis, basic principles of treatment.	6	1	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test
10.1	Fundamentals of surgery for parasitic diseases. Classification, clinic, diagnostics, surgical tactics.	6	2	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz, test

					T 1					
10.2	Fundamentals of su parasitic diseases. C clinic, diagnostics,	Classification,	6	4	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Ora	al quiz, test		
10.3	Fundamentals of su parasitic diseases. (clinic, diagnostics,	Classification,	6	1	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Ora	al quiz, test		
11.1	Transplantology. T development of tran The concept of a do Classification of tra Kidney, heart, liver indications, technic	nsplantology. onor-recipient. ansplants. transplantation -	6	2	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Ora	al quiz, test		
11.2	Transplantology. T development of tran The concept of a do	nsplantology.	6	4	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Ora	al quiz, test		
11.3	Classification of tra Kidney, heart, liver indications, technic	transplantation -	6	4	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Ora	al quiz, test		
11.4	Transplantology. 7 development of tr The concept of a c Classification of tr Kidney, heart, live - indications, tech execution.	ansplantology. lonor-recipient. ransplants. er transplantation	6	1	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Ora	al quiz, test		
12.1	Exam		6	27	PC-1 PC-3 PC-5 PC-8	1.1 2.1 3.1	Oral quiz	z, test, case study.		
			5. ASS	ESSMEI	NT TOOLS					
		5.1. As			midterm assess	ment				
Present	ted by a single docu	ument								
Drecont	ted by a single docu		Assessmen	t tools fo	or diagnostic test	ing				
riesen			COURSE (MODUI	LE) RESOURCE	S				
			6.1. Reco		led literature					
	Authors			6.1.1. C	Core	D.,	ıblish., year	Quantity		
L1.1	Gostishchev V. K.	General Surgery:				Mosc	cow: TAR -Media,	Quantity 12		
		· 1	6.1.2		ementary			Quantity		
	6.1.2. Supplementary Authors Title Nikolaev A. V. Topographic Anatomy and Operative Surgery: textbook						Authors Title Publish., year			

		6.1.3. Guidance paper			
	Authors	Title	Publish., year	Quantity	
ЛЗ.1	Badretdinova, A. I., Klimenko, A. S., Kostsova, N. G., Tigai, Zh. G., Dogotar, O. A., Akhuba, L. G., Sopetik, V. S., Adilkhanov, A.V., Ostaev, A. O.	Fundamentals of care for surgical patients = Nursing care in surgery: textbook	Moscow: Peoples' Friendship University of Russia, 2019, electronic resource	1	
		6.3.1 Software			
6.3.1	.1 Operational system N	licrosoft, applied programs pack Microsoft Office			
		6.3.2. Information Referral systems			
6.3.2	.1 www.consultant.ru/				
6.3.2.	.2 www.garant.ru/				
	7. MA	TERIAL AND TECHNICAL SUPPORT OF DISCIPLIN	E (MODULE)		
7.	.1 The lecture-type clas educational furniture	sroom is equipped with a multimedia projector, a screen, a lap tables, chairs.	otop, a stationary cha	lk board, standard	
	children with surgica fractures (No. 8-Bloc limb (No. 1-24). Part trunks on the trunk (I 30-32). Benign and n (No. 73- 89). Fundan classrooms have at th Sega-780 electronic s measures, electrocarc infusomat, postopera multifunctional electr Lamp Series Medilux Aspirator; surgical, attachment to the ope electroencephalograp fibrobronchoscope (p endoscopy trolley, en videoduodenoscope, electrosurgical unit, o videocolonoscope, di dilator; Electrocoagu suction ATMOS Rec for transanal hemorth set of additional instr TX 503 TX Gynecolo	in surgical pathology (No. 49-96). Anaerobic non-clodistrial diseases (Uh.). Part I-VI. Sports injuries (S.T.) (No. 1-24) kade of nerve trunks and plexuses (Bl. ner. stv.). Part I 1. Bl II of the blockade of the nerve trunks of the lower extremity (No. 1-24) Sectoral resection of the breast (No. 26-29). Skin imalignant tumors of the stomach (No. 68-72). Part IV Benigmentals of desmurgy (dressing technique) (Os. des.). Part I - III eir disposal medical equipment: Equipment: tonometer, stether scales, Sega-220 height meter, anti-shock kit, kit and styling for liograph, bactericidal irradiator, anesthesia breathing apparatus tive suction device, defibrillator with synchronization function fro-mechanical-hydraulic complete set for general surgery AXI sc-S-Single D 600mm Mediland Medilux-S-Single D, HICOVA shadowless MediLux-Sindle, microsurgical instruments, univerating table, apparatus for monitoring basic functional parameth, gastroduodenoscope, duodenoscope (with lateral optics), cuediatric), halogen flash light source for endoscopy, endoscopic doscope washing machine, ultrasonic cleaner, endoscopic succidator surgical Mega Power. Laparoscopic stand, KARL STOR or 55 Record 55, Electrosurgical energy platform Force Trianoidal dearterization THD EVOLUTION THD EVOLUTION uments and optics. Headliner, pr-1: Rudolf Reister Rud	. Methods of treatmockades of the nerve ockades of the nerve No. 1-24). Part III. E cisions during radical and malignant tumo . In addition to techn oscope, phonendosco or emergency preven s, artificial lung vent n, mobile operating ta (S 303E. Mobile Sin AC 700CH B 700CN ersal system of wour eters, respiratory mix blonoscope (pediatric c television system, of tion pump, videoend w-energy laser install ting videocolonoscop opic mucosal resection Z KARL STORZ. M d Valleylab Force Tr Endovideoscopic su ster. Pulse oximeter of Medi-Matic OPX115	nent of bone trunks of the upp Blockade of nerve I mastectomy (No rs of the stomach ical equipment, t pe, thermometer, tive and therapeu ilation apparatus, able ngle-dome Surgio Surgical ad expanders with ture analyzer, c), endoscopic table, oscopic complex lation, be, pediatric on kit, balloon ledical vacuum iad Doppler devi- rgical stand with Critikare mod. 50 515. Tools and	

7.3 Simulation and training accreditation center of MI SurGU. Classrooms of the MI simulation center equippe and simulation equipment, laboratory tools and consumables in sufficient quantity. The BenQ multimedia p mannequin for practicing practical CPR skills ResusciBaby. A mannequin for practicing practical CPR skill ResusciJunior. The NursingKid dummy – (a 7-year-old child with a variable physiology for practicing thera diagnostic measures). Zoll defibrillator. Simulator "Head for intubation". Simulator for carrying out n / a, I Simulator for intravenous injections. The Nursingkid simulator. Nursingbaby. Tonometer, phonendoscope Electrocardiograph electrodes.AMBU bag with a set of face masks. Oxygen mask. Intubation kit. A set of i The infusion system. A set of syringes Syringes 2.0ml 5.0ml 10.0ml. Cubital catheters. Fixing patch. Imitat medicines. Aspirator. Laryngeal mask. Air compressor. Vacuum aspirator. Lineomat. Artificial lung ventila Gastric tube. Nasogastric probe. Simulator for enema setting. Esmarch's mug. Dressings. Medical trays. Vin simulators: 1. LAP MENTOR, SIMBIONIX is a virtual simulation platform for the development of manual endoscopic surgery: practicing suturing techniques and performing laparoscopic operations: appendectomy, cholecystectomy, ectopic pregnancy, postoperative scar hernia, nephroectomy. 2. LAP MENTOR EXPRES SIMBIONIX is a portable virtual simulation platform for the development of manual skills in endoscopic sup practicing suturing techniques and performing laparoscopic operations: hysterectomy, cholecystectomy, nej GI BRONCH MENTOR, SIMBIONIX is an endoscopic simulator for teaching methods of diagnostic and t gastroscopy, colonoscopy with a module for bronchoscopy with the possibility of practicing routine flexible bronchoscopy, transbronchial needle aspiration under ultrasound control, bronchoalveolar lavage and bronc Laparoscopic simulator, 1.8 Full HD Professor Kelling (Czech Republic) A universal device for teaching th necessary for laparoscopic surgery, equipped w	projector. A ls apeutic and / m injections. b. ntubation tubes. cors of ation device. rtual l skills in thysterectomy, SS, urgery: phrectomy. 3. therapeutic e chial biopsy.4. ne skills ing instruments king area of the to actual onsists of 5 X-
7.4 Medical furniture.	
7.5 Library of laboratory and instrumental research results.	
7.6 Roles for standardized patients.	
7.7 Library of situational tasks.	
7.8 Library of clinical scenarios.	
7.9 Library of evaluation sheets.	