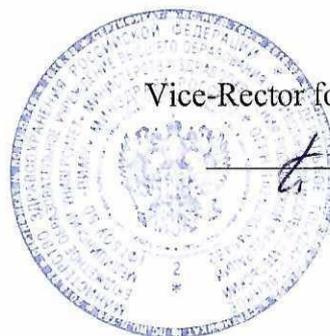


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **GENERAL SURGERY**

Specialty: **31.05.01 GENERAL MEDICINE**

Qualification: **GENERAL PRACTITIONER**

Department: **FACULTY OF SURGERY AND TRANSPLANTOLOGY**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **216 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for the specialty 31.05.01 GENERAL MEDICINE, approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.

Developers of the working program:

Zagainov Vladimir Evgenievich, Doctor of Medical Sciences, Professor, Head of the Department of Faculty Surgery and Transplantology

The program was reviewed and approved at the department meeting (protocol No. 10, June 1, 2021)

Head of the Department,
MD, Professor Zagainov V. E.

 (print name)
(signature)

__ June, 1 _____ 2021

AGREED

Deputy Head of EMA ph.d. of biology _____ Lovtsova L.V.

(signature)

__ June, 1 _____ 2021

1. The purpose and objectives of mastering the academic discipline to teach students the rules of examination, drawing up a plan for determining the main surgical syndromes and providing first aid to patients with a surgical profile.

1.1. The purpose of mastering the discipline: (*participation in forming the relevant competencies*).

- Able to: create and maintain safe living conditions in everyday and professional life for the preservation of the natural environment, ensuring sustainable development of society, including in the case of a threat and occurrence of emergency situations and military conflicts (UC-8)

- Able to implement moral and legal norms, ethical and deontological principles in professional activities (GPC-1)

- Able to apply medical products, provided by the order of healthcare delivery, as well as examine patients for the purpose of determining the diagnosis (GPC-4)

- Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass destruction (GPC-6)

- Able to prescribe treatment and monitor its effectiveness and safety (GPC-7)

- Able to assess the condition of a patient requiring medical treatment in the emergency form (PC -1)

- Able to recognize conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care, recognize conditions that pose a threat to the patient's life including conditions of clinical death (stopping vital functions of the human body (blood circulation and/or respiration), requiring the provision of emergency medical care (PC-2)

- Able to: provide emergency medical care to patients in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life, provide emergency medical care to patients in conditions that threaten the patient's life, including clinical death (suspension of vital functions the human body (circulation and/or respiration) (PC-3)

- Able to use medicines and medical devices for providing medical care in emergency forms (PC-4)

- Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient (PC-5)

- Able to send a patient to laboratory, instrumental examination, to a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care (PC-6)

- Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care and to evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment (PC-8)

- Able to: organize and conduct medical examinations taking into account age, health status, profession in accordance with applicable regulatory legal acts and other documents (PC-

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- Able to: maintain medical records, also in the electronic form in the MIS (PC-22)

1.2. Tasks of the discipline:

As a result of completing the discipline, the student should

Know:

- rules for issuing and maintaining medical records (outpatient card, inpatient card);
- methods of examining a surgical patient (analysis of complaints, finding out the history of the disease and life history, conducting a physical examination of the patient, local examination of the pathological focus);
- clinical manifestations of the main surgical syndromes (bleeding, hemorrhagic shock, wounds, thermal injuries, fractures and dislocations, inflammation, endogenous intoxication syndrome in surgery);
- clinical symptoms of damage to the musculoskeletal system, chest, abdominal cavity, pelvic cavity, head and cranial cavity, method for determining the area of the burnt surface, features of applying dressings for burn disease and cold injury;
- features of providing first aid to victims in emergency situations and disasters in wartime and peacetime, in case of a road injury, electrical injury;
- rules and procedure for performing medical manipulations (subcutaneous injections, intramuscular injections, intravenous injections, preparation of a system for intravenous infusions);
- methods of surgical processing of hands;
- rules for sterilization of materials and instruments, direct and indirect quality control of sterilization;
- a list of disinfectant solutions and antiseptics used in the work of the surgical hospital;
- rules for storage of blood, blood components and blood substitutes;
- rules and procedures for transfusion of blood, blood components and blood substitutes;
- rules for applying transport tires, hemostatic tourniquet, bandage bandages, plaster bandages;
- rules for emergency tetanus prophylaxis

Be able to:

- examine the patient with various traumatic injuries, with purulent-septic conditions (analysis of complaints, clarification of the history of the disease and life history, physical examination of the patient, local examination of the pathological focus);
- formulate a diagnosis and determine a plan of surgical action;
- determine the indications, contraindications and timing of the operation;
- complete a medical history;
- identify life-threatening bleeding disorders;
- to determine the presence of a fracture, dislocation, free gas in the abdominal cavity, hydropneumothorax by x-ray;
- provide first aid in emergency situations and first medical aid in the lesions in emergency situations;
- before surgery or surgical procedures, perform surgical treatment of hands, put on a surgical gown, sterile gloves, change sterile gloves independently and with the help of a nurse;
- to treat the surgical field with antiseptic solutions;
- prepare and fill the system for intravenous infusions;
- assess the suitability of blood and its preparations for transfusion, determine the blood type, conduct compatibility tests for transfusion of blood and blood components;

- carry out the imposition of transport tires, hemostatic tourniquet, bandage bandages, plaster bandages;
- administer medications through drains and microirrigators;
- prepare instruments for primary wound treatment, secondary wound treatment, skeletal traction;
- perform instrumental dressing of wounds (clean and purulent), remove sutures;
- carry out emergency tetanus prophylaxis.

Possess:

- correct maintenance of medical records;
- methods of general clinical examination;
- skills in interpreting the results of laboratory, instrumental diagnostic methods;
- detailed clinical diagnosis algorithm
- basic medical diagnostic and therapeutic methods for providing first aid in emergency and life-threatening conditions;
- the skills of stacking biks, assessing the sterility of materials in biks;
- skills in surgical treatment of hands;
- the skills of putting on a sterile gown, sterile gloves, changing sterile gloves;
- skills in processing the surgical field with antiseptic solutions;
- skills in preparing and filling the system for intravenous infusion;
- the skills of determining the blood group, conducting tests for compatibility during the transfusion of blood and blood components;
- the skills of applying transport tires, a hemostatic tourniquet, bandage bandages, plaster bandages;
- skills in preparing instruments for the primary treatment of wounds. secondary treatment of wounds, imposition of skeletal traction;
- skills of instrumental dressing of wounds (clean and purulent), removal of sutures;
- skills in the prevention and treatment of bedsores.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline General Surgery refers to the core part of Block 1 of GEP HE, Specialty 31.05.01 General Medicine

The discipline is taught in _5_ and _6___ semester/_3__ year of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

1. Biology
2. Anatomy
3. Biochemistry
4. Surgical Nursing
4. Histology, Embryology, Cytology
5. Normal Physiology
6. Virology, Microbiology

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

1. Surgical diseases
2. Faculty surgery
3. Hospital surgery
4. Anesthesiology, resuscitation, intensive care

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) and general professional (GPC) and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-8	Able to: create and maintain safe living conditions in everyday and professional life for the preservation of the natural environment, ensuring sustainable development of society, including in the case of a threat and occurrence of emergency situations and military conflicts	IUC 8.1 Knows: factors of harmful influence on vital activity; algorithms of actions in case of emergencies and military conflicts; workplace safety rules IUC 8.2 Can: identify dangerous and harmful factors in the framework of ongoing activities, create and maintain safe living conditions in everyday life and in professional activities IUC 8.3 has practical experience: participation in planned exercises to develop rules of conduct in case of emergencies, first aid: complies with safety regulations at the workplace	factors of harmful influence on vital activity; algorithms of actions in case of emergencies and military conflicts	identify dangerous and harmful factors within the framework of its activities, create and maintain safe living conditions in everyday and professional life	Has practical experience in: participation in planned exercises to work out the rules of conduct in case of emergencies, first aid; complies with safety regulations at the workplace
2.	GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	IGPC 1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of health care; legal aspects of medical practice IGPC 1.2 Able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of health care in solving problems of professional activity; apply the rules and	basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice	apply ethical norms and principles of behavior of a healthcare worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the	Has practical experience in: solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice

			<p>norms of interaction moral and legal norms, ethical and deontological principles of behavior in the course of professional activity</p> <p>observe moral and legal norms in professional activities;</p> <p>express professional information in the process of intercultural interactions respecting the principles of ethics and deontology</p> <p>the skill of behavior in the implementation of professional activities of behavior in compliance with moral and legal norms, ethical and deontological principles</p> <p>doctor with colleagues and patients (their legal representatives)</p> <p>IGPC 1.3 Has practical experience: solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice</p>		<p>rules and norms of interaction between a doctor and colleagues and patients (their legal representatives)</p>	
3.	GPC-4	<p>Able to apply medical products, provided by the order of healthcare delivery, as well as examine patients for the purpose of determining the diagnosis</p>	<p>IGPC 4.1 Knows the methodology for collecting an anamnesis of life and diseases, complaints from patients (their legal representatives); method of examination and physical examination; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; international statistical</p>	<p>the methodology of collecting anamnesis of life and diseases, complaints of patients (their legal representatives); examination procedure; and physical examination; clinical aspect, methods of diagnosis of the most common diseases;</p>	<p>collect complaints, anamnesis of life and disease of patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical survey of patients; interpret the results of examination and physical</p>	<p>Has practical experience in: collecting complaints, anamnesis of life and disease of patients (their legal representatives) , identifying risk factors and causes of disease development; examination and physical survey of patients; diagnosis of the most common diseases; identification of</p>

			<p>classification of diseases and related health problems (ICD); conditions requiring emergency medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations and (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p> <p>IGPC 4.2 Knows how to: collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of the development of diseases: apply methods of examination and physical examination of patients; interpret the results of the examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, etc. taking into account the standards of medical care; refer patients for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, and, subject to standards of care; refer patients for consultations to specialist doctors in</p>	<p>methods of laboratory and instrumental investigations to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring emergency medical care; procedure for the use of medical devices in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care</p>	<p>examination of patients; diagnose the most common pathology among patients; identify risk factors for cancer; formulate a preliminary diagnosis, to make a plan for conducting laboratory, instrumental and additional investigations of patients in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; to refer patients to laboratory, instrumental and additional investigations in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to medical specialists in accordance with the procedures</p>	<p>risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional investigations, consultations of specialist doctors; referral of patients for instrumental, laboratory, additional investigations, consultations of specialist doctors in accordance with the current procedures for providing medical care, clinical recommendations taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and problems related to health (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases</p>
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			<p>accordance with the procedures for the provision of medical care, clinical recommendations and, taking into account the standards of medical care; interpret and analyze the results of consultations with patients' specialists; interpret and analyze the results of the main (clinical) and additional (laboratory, instrumental) examination methods; to carry out differential diagnostics of diseases in patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care; use medical devices in accordance with the current procedures for the provision of medical, clinical guidelines (treatment protocols) on the provision of medical care, care taking into account the standards of medical care</p> <p>IGPC 4.3 Has practical experience: collecting complaints, anamnesis of life and disease in patients (their legal representatives). identification of risk factors and causes of disease development; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major cancers; I formulated a preliminary diagnosis, drawing up a plan for conducting instrumental puff. laboratory, additional research, consultations of medical specialists;</p>		<p>of medical care, clinical recommendations taking into account the standards of medical care; to interpret and analyze the results of consultations by medical specialists of patients; to interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; carry out differential diagnosis of diseases of patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring medical care in an urgent form; use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into</p>	<p>without obvious signs of a threat to the patient's life and requiring urgent medical care; the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the issues of medical care delivery, assistance taking into account the standards of medical care</p>
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			<p>referral of patients for instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with the current procedures for the provision of medical care, clinical guidelines and, taking into account standards of care; interpretation of additional (laboratory and instrumental) examinations of patients; provisional diagnosis in accordance with the international statistical classification of diseases and related health problems (ICD); carrying out differential diagnostics of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations and (treatment protocols) on the provision of medical care, care taking into account the standards of medical care</p>		<p>account the standards of medical care</p>	
4.	GPC-6	<p>Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass</p>	<p>IGPC 6.1 Knows: the methodology for collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of providing medical care to patients in emergencies, in emergency situations, epidemics and in areas of mass destruction in accordance with the</p>	<p>methods of collecting complaints and anamnesis of patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of medical</p>	<p>recognize conditions that require healthcare delivery in an emergency form, including in the conditions of emergencies, epidemics and in the centers of mass destruction, requiring medical</p>	<p>Has practical experience in: assessing the condition requiring healthcare delivery in an emergency form, including in emergency situations, epidemics and in the centers of mass destruction; definition of life-threatening conditions, including the</p>

		<p>destruction</p>	<p>procedures for providing medical care, clinical recommendations and, taking into account the standards of medical care; clinical signs of major medical emergencies; principles of medical evacuation in emergency situations, epidemics and in the centers of mass destruction; principles of work in the centers of mass destruction; principles of organization of patient care, provision of primary health care IGPC 6.2 Able to: recognize conditions requiring emergency medical care, including in emergency situations, epidemics and in areas of mass destruction, requiring emergency medical care; organize the work of medical personnel in emergency situations, in emergency situations, epidemics and in the centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (stopping vital functions of the human body (blood circulation and (or) respiration); use medicines and medical devices in the provision of medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment: organize patient care, provide primary health care IGPC 6.3 Has practical experience in: assessing a condition requiring emergency medical care, including in emergency situations, epidemics and in areas</p>	<p>care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care, first aid treatment</p>	<p>assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including (blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care</p>	<p>state of clinical death (arrest of vital important functions of the human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting life-threatening situations including clinical death (arrest of vital functions of human body (blood circulation and (or) respiration); the use of medicines and medical products in the provision of medical care in case of emergency conditions and epidemics; use of personal protective equipment; organization of patient care, first aid measures</p>
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			<p>of mass destruction; recognition of conditions that pose a threat to life, including the state of clinical death (stoppage of vital functions of the human body (blood circulation and (or) respiration), requiring emergency medical care; emergency medical care form patients under conditions that pose a threat to the life of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) respiration)); the use of drugs and medical devices in the provision of medical care in emergency conditions and epidemics; personal protective equipment, organization of patient care, provision of primary health care</p>			
5.	GPC-7	Able to prescribe treatment and monitor its effectiveness and safety	<p>IGPC 7.1 Knows: methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care in the treatment of the most common diseases; their mechanism of action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen e; features of medical care in emergency forms</p> <p>IGPC 7.2 Able to: develop a treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical recommendations,</p>	<p>methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care in the treatment of the most common diseases; the mechanism of their action, medical indications and contraindications to the prescription; compatibility , possible complication</p>	<p>develop a treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines taking into account the standards of medical care; prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulation</p>	<p>Has practical experience in: developing a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases in accordance with the current procedures for providing medical care, clinical guidelines,</p>

			<p>taking into account the standards of medical care; prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p> <p>IGPC 7.3 Has practical experience in:</p> <p>developing a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision of medical care, clinical guidelines and, taking into account the standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases, in accordance with the current procedures for the provision of medical care, clinical recommendations and, taking into account the standards of medical care; selection and prescription of medicines, medical devices with the most common diseases for the treatment of the most common diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations and, taking into account the standards of medical care; evaluation of the efficacy and safety of the use of drugs, medical devices and non-drug treatment in patients with the most common diseases: selection and prescription of non-drug</p>	<p>s, side effects, adverse reactions, including serious and unforeseen; features of medical care in emergency forms</p>	<p>s, the use of drugs and (or) medical devices, non-drug treatment</p>	<p>taking into account the standards of medical care; selection and prescription of medicines, medical devices with the most common diseases for the treatment of the most common diseases of children and adults in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; evaluation of the effectiveness and safety of the use of drugs, medical devices and non-drug treatment of patients with the most common diseases; selection and prescription of non-drug treatment for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; prevention and treatment of complications, side effects, adverse</p>
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			<p>treatment for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines and, taking into account the standards of medical care; prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of medicinal preparations and (or) medical devices. non-drug treatment: providing medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an emergency</p>			<p>reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment; providing medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an emergency form; the use of medicines and medical devices in the provision of medical care in an emergency form</p>
6.	PC-1	<p>Able to assess the condition of a patient requiring medical treatment in the emergency form</p>	<p>IPC 1.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the condition, the main medical indications for conducting research and interpreting the results in patients requiring medical care in emergency forms IPC 1.2 Able to: identify clinical signs of conditions requiring emergency or</p>	<p>etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory</p>	<p>identify clinical signs of conditions requiring medical treatment in the emergency form</p>	<p>assessment of the patient's condition requiring medical care in emergency or emergency forms</p>

			<p>emergency medical care IPC 1.3 has methods for assessing the condition of a patient requiring medical care in emergency or emergency forms</p>	<p>and instrumental research methods for assessing the condition, the main medical indications for conducting research and interpreting the results of patients requiring medical care in the emergency form</p>		
7.	PC-2	<p>Able to recognize conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care, recognize conditions that pose a threat to the patient's life including conditions of clinical death (stopping vital functions of the human body (blood circulation and/or respiration), requiring the provision of emergency medical care</p>	<p>IPC 2.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis from patients (their legal representatives); method of physical examination of patients (examination, palpation, percussion, auscultation): a list of laboratory and instrumental research methods for assessing the patient's condition, the main medical indications for conducting research and interpreting the results: clinical signs of a sudden cessation of blood circulation and / or breathing IPC 2.2 Able to: identify clinical signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing</p>	<p>etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of collecting complaints and anamnesis in patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); a list of methods of laboratory and instrumental investigations to assess the patient's condition, the main medical</p>	<p>identify clinical signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration</p>	<p>provision of emergency medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life; state recognition. posing a threat to the life of the patient, including conditions of clinical death (stopping the vital functions of the human body (blood circulation and / or respiration), requiring emergency medical care; providing emergency medical care to patients in conditions that pose a threat to the patient's life, including clinical death (stoppage of vital functions of the human body (blood circulation</p>

				indications for conducting research and interpreting the results; clinical signs of sudden cessation of blood circulation and/ or respiration		and/or respiration)
8.	PC-3	Able to: provide emergency medical care to patients in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life, provide emergency medical care to patients in conditions that threaten the patient's life, including clinical death (suspension of vital functions the human body (circulation and/or respiration)	IPC 3.1 Knows: basic cardiopulmonary resuscitation rules; principles of operation of devices for external electropulse therapy (defibrillation); rules for performing external electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration IPC 3.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)	basic cardiopulmonary resuscitation rules; principles of operation of devices for external electropulse therapy (defibrillation); rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration	perform measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)	provision of emergency medical care to patients in conditions that pose a threat to the patient's life, including clinical death (stopping vital functions of the human body (blood circulation and/or respiration)
9.	PC-4	Able to use medicines and medical devices for providing medical care in emergency forms	IPC 4.1 Knows: basic cardiopulmonary resuscitation rules; principles of operation of devices for external electropulse therapy (defibrillation); rules for performing external electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with	modern methods of using medicines, medical devices for diseases and conditions in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical	prescribe medicines, medical devices taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment	provision of emergency medical care to patients in conditions that pose a threat to the patient's life, including clinical death (stopping vital functions of the human body (blood circulation and/or respiration)

			electrical impulse therapy (defibrillation)	care taking into account the standards of medical care in the provision of medical care in emergency or urgent forms; the mechanism of action of drugs, medical devices, medical indications and contraindications to their use; complications caused by their use; principles of operation of devices for external electric pulse therapy (defibrillation); rules for performing external electric pulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration	protocols) on the medical care delivery in emergency or urgent forms	
10.	PC-5	Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for	IPC 5.1 Knows: Legislation of the Russian Federation in the field of health care, regulatory legal acts and other documents that determine the activities of medical organizations and medical workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology,	the legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and healthcare workers; method of collecting	collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret	collection of complaints, anamnesis of life and disease of the patient; a complete physical examination of the patient (examination, palpation, percussion, auscultation); formulating a preliminary diagnosis and drawing up a plan for laboratory and

		<p>laboratory and instrumental examinations of the patient</p>	<p>pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; regularity and functioning of a healthy human body and mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of the human body in pathological processes; methods of laboratory and instrumental studies for assessing the state of health, medical indications for research, rules for interpreting their results IPC 5.2 Able to: collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures</p>	<p>complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; patterns of functioning of a healthy human body and mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of the human body in pathological processes; methods of laboratory and instrumental examinations for assessing the state of health, medical indications</p>	<p>its results; determine the sequence of volume, content and sequence of diagnostic measures incl. modern digital technologies</p>	<p>instrumental examinations of the patient</p>
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				for conducting investigations, rules for interpreting their results		
11.	PC-6	Able to send a patient to laboratory, instrumental examination, to a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care	IPC 6.1 Knows: general issues of organizing medical care for the population, methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting studies, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care IPC 6.2 Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations to specialist doctors; determine medical indications for the provision of an ambulance, including other specialized ambulance, medical care	general issues of organizing medical care for the population, methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care	justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	referral of a patient for laboratory examination if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; referral of a patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; referral of a patient for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care,

						clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care: referral of a patient for specialized other medical care in an inpatient setting or in a day hospital setting, if medically indicated, in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of care
12.	PC-8	Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care and to	IPC 8.1 Knows: modern methods of using medicines, medical devices and clinical nutrition for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; mechanism of action of drugs medical products and medical nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in a patient in	modern methods of using medicines, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; the	draw up a treatment plan for the disease and the patient's condition taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking	development of a treatment plan for a disease or condition, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care: prescribing drugs, medical devices and clinical

		<p>evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment</p>	<p>accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use IPC 8.2 Able to: draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the age of the patient, the clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-pharmacological treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical</p>	<p>mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions of the patient in accordance with current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; action mechanism of non-drug treatment; medical indications and contraindications to its prescription; side effects, complications caused by its use</p>	<p>into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on issues related to the provision of medical care taking into account the standards of medical care; evaluate the</p>	<p>nutrition considering the diagnosis, age and clinical presentation of the disease and in accordance with the current procedures for the provision of medical care. clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of care: prescribing non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; assessment of the effectiveness and safety of the use of medicines, medical devices, clinical nutrition and other methods of treatment</p>
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			care, taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition		effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition	
13.	PC-15	Able to: organize and conduct medical examinations taking into account age, health status, profession in accordance with applicable regulatory legal acts and other documents	IPC 15.1 Knows: regulatory legal acts and other documents regulating the procedures for conducting medical examinations, medical examinations and dispensary observation; list of medical specialists involved in medical examinations, medical examinations IPC 15.2 Able to: conduct medical examinations taking into account age, state of health, profession in accordance with the current regulatory legal acts and other documents	regulatory legal acts and other documents regulating the procedures for conducting medical examinations , medical check-up and medical supervision; a list of specialist doctors involved in conducting medical examinations , medical check-up	conduct medical examinations taking into account age, health condition, profession in accordance with applicable regulatory legal acts and other documents;	the appointment of preventive measures for patients, taking into account risk factors in accordance with the current procedures for the provision of medical care. clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; monitoring compliance with preventive measures; evaluation of the effectiveness of preventive work with patients
14.	PC-22	Able to: maintain medical records, also in the electronic form in the MIS	IPC 22.1 Knows: legislation in the Russian Federation in the field of health care, regulatory legal acts and other documents that determine the activities of medical organizations and medical workers: rules for working in information systems and information telecommunication network "Internet"; rules for issuing medical documentation in medical organizations providing medical care on an outpatient basis, including at home when a medical worker is	the legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; rules for working in information systems and information and	fill out medical documentation including in the electronic form in MIS; work with personal data of patients and information constituting a medical secret; use information systems and information and telecommunication network, the Internet, in	maintaining medical records, including in electronic form

			called IPC 22.2 Able to: fill in medical documentation, including in electronic form; work with personal data of patients and information constituting a medical secret; use in professional activities information systems and information telecommunications network "Internet"	telecommuni cations network "the Internet"; rules for registration of medical documentatio n in medical organizations providing outpatient medical care including medical worker's home visits	professional activities	
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4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Introduction to surgery	The subject and tasks of general surgery, the place of discipline in the system of higher medical education. The role of Russian scientists in the formation and development of the national school of general surgery. Ethical and deontological aspects in surgical activity. Methodology for collecting scientific medical and paramedical information. Methodology for performing experimental and clinical studies.
2	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	General questions of surgery	Desmurgy. Transport immobilization. Non-operative surgical technique. Asepsis. Antiseptic. Bleeding and hemostasis. Transfusion of blood products and blood substitutes.
3	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Emergency conditions in surgery	Endogenous intoxication in surgery. Water and electrolyte disturbances. Critical disorders of life. Terminal and shock conditions. Pain and pain relief.
4	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Fundamentals of surgery for purulent diseases	Purulent diseases of the skin, subcutaneous tissue and glandular organs. Purulent diseases of the hand and foot. Purulent diseases of cellular spaces. Purulent diseases of serous cavities. Purulent diseases of bones and joints. Anaerobic surgical infection. Specific surgical infection. General purulent infection.
5	UC-8, GPC-1,4, 6,7 PC-1,2,3,	Fundamentals of injury surgery	Wounds and wound process. Mechanical injury. Thermal damage. The main forms of injuries to the head, chest and abdomen.

	4, 5, 6, 8, 9, 15, 22		
6	UC-8, GPC- 1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Fundamentals of Clinical Surgery	Curation of surgical patients. Fundamentals of surgery for arterial blood flow disorders. Fundamentals of surgery for disorders of venous and lymphatic circulation. Fundamentals of surgical oncology. Fundamentals of plastic surgery and transplantology. Fundamentals of surgery of parasitic diseases. Fundamentals of surgery for malformations.
7	UC-8, GPC- 1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Stages of treatment of surgical patients	First aid. Ambulatory surgery. Preoperative period. Surgery. Postoperative period.

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units (CU)	volume in academic hours (AH)	5	6		
Classroom work, including						
Lectures (L)	0,7	24	14	10		
Laboratory practicum (LP)*						
Practicals (P)	2,3	84	40	44		
Seminars (S)						
Student's individual work (SIW)	2	72	36	36		
Mid-term assessment						
exam	1	36		36		
TOTAL LABOR INTENSITY	6	216	90	96		

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1	Introduction to surgery. General questions of surgery	4		10		12	26
2	Emergency conditions in surgery	4		10		12	26
3	Fundamentals of surgery for purulent diseases	6		20		12	38
4	Fundamentals of injury surgery	2		14		12	28
5	Fundamentals of Clinical Surgery	4		16		12	32
6	Stages of treatment of surgical patients	4		14		12	30
7	Exam						36
	TOTAL	24		84		72	216

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's

individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH	
		semester 5	semester 6
1	Introduction to the subject. Surgical deontology.	2	
2	Asepsis. Antiseptics.	2	
3	Bleeding. Methods for stopping bleeding. Transfusion of blood, its components and blood substitutes.	2	
4	Wounds and wound process. Wound treatment. Injuries to soft tissues, tendons and joints, chest and abdomen.	2	
5	Fractures and dislocations. Thermal damage.	2	
6	Examination of the surgical patient. Local anesthesia. Pain and pain relief. General anesthesia. Spinal and epidural anesthesia.	2	
7	Preoperative and postoperative period. Operation.		2
8	The concept of surgical infection. Acute aerobic and anaerobic infection. Acute and chronic specific infection.		2
9	Purulent surgery of the skin, subcutaneous tissue, cellular spaces, hands and feet. Purulent surgery of glandular organs, serous cavities of bones and joints. Sepsis. Endogenous intoxication in surgery.		2
10	Critical disorders of vital activity in surgical patients. Methods of cardiopulmonary resuscitation.		2
11	Fundamentals of surgery for regional blood flow disorders.		2
12	Fundamentals of tumor surgery. Fundamentals of plastic surgery and transplantology.		2
	TOTAL (total - AH) 24		

6.2.2. The thematic plan of laboratory practicums

Curriculum not included.

6.2.3. Thematic plan of practicals

№	Name of the topics of practicals	Volume in AH	
		semester 5	semester 6
1	Introduction to the subject. Surgical deontology.	4	
2	Asepsis.	4	
3	Antiseptics.	4	
4	Bleeding. Methods for stopping bleeding.	4	

5	Transfusion of blood, its components and blood substitutes.	4	
6	Wounds and wound process. Wound treatment.	6	
7	Injuries to soft tissues, tendons and joints, chest and abdomen.	6	
8	Fractures and dislocations.	4	
9	Thermal damage.	4	
10	Examination of the surgical patient. Local anesthesia.		4
11	Pain and pain relief. General anesthesia. Spinal and epidural anesthesia.		6
12	Preoperative and postoperative period. Operation.		6
13	The concept of surgical infection. Acute aerobic and anaerobic infection. Acute and chronic specific infection.		6
14	Purulent surgery of the skin, subcutaneous tissue, cellular spaces, hands and feet.		6
15	Purulent surgery of glandular organs, serous cavities of bones and joints.		4
16	Sepsis. Endogenous intoxication in surgery.		4
	Critical disorders of vital activity in surgical patients. Methods of cardiopulmonary resuscitation.		4
17	Fundamentals of surgery for regional blood flow disorders.		4
18	Exam		36
	TOTAL (total - AH) 84+36 = 120 AH		

6.2.4. Thematic plan of seminars

Curriculum not included.

6.2.5. Types and topics of student's individual work (SIW)

№	Types and topics of SIW	Volume in AH	
		semester 5	semester 6
1	Introduction to surgery. General questions of surgery.	12	
2	Emergency conditions in surgery.	12	
3	Fundamentals of surgery of purulent diseases.	12	
4	Fundamentals of injury surgery.		12
5	Fundamentals of clinical surgery.		12
6	Stages of treatment of surgical patients.		12
	TOTAL (total - AH) 72		

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control	Name of section of academic discipline	Competence codes	Assessment formats		
					types	number of test questions	number of test task options

1.	5 6	Current monitoring	Control of mastering the topic	Introduction to surgery. General questions of surgery. Emergency conditions in surgery. Fundamentals of surgery of purulent diseases. Fundamentals of injury surgery. Fundamentals of clinical surgery. Stages of treatment of surgical patients.	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Abstract writing. Presentation with a report. Writing a medical history. Entrance testing. Role and business games.	70 30	5 5
			Monitoring the student's individual work	Introduction to surgery. General questions of surgery. Emergency conditions in surgery. Fundamentals of surgery of purulent diseases. Fundamentals of injury surgery. Fundamentals of clinical surgery. Stages of treatment of surgical patients.	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Test. Thematic testing. Solution thematically to their situational problems. Role and business games.	90 40	10 10
2.	6	Mid-term assessment	Exam	Introduction to surgery. General questions of surgery. Emergency conditions in surgery. Fundamentals of surgery of purulent diseases. Fundamentals	UC-8, GPC-1,4, 6,7 PC-1,2,3, 4, 5, 6, 8, 9, 15, 22	Exam ticket interview	3	27

				of injury surgery. Fundamentals of clinical surgery. Stages of treatment of surgical patients.				
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8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	General surgery: textbook / V. K. Gostishchev. - 5th ed., revised. and additional - M.: GEOTAR-Media, 2015.	1	30
2	General surgery: textbook / Petrov S.V. - 4th ed., revised. and additional - M.: GEOTAR-Media, 2012.	1	30
3	Operative surgery: a textbook on manual skills / ed. A. A. Vorobiev, I. I. Kagan. - M.: GEOTAR-Media, 2015.	1	30
4	Surgical diseases. Volume 1: textbook / Ed. V.S. Savelyeva, A.I. Kirienko - M.: GEOTAR-Media, 2009.	1	30
5	Surgical diseases. Guide to practical exercises: textbook / Ed. A.F. Chernousov. - M.: GEOTAR-Media, 2012.	1	30
6	Medical diagnostic methods: textbook / Kukes V.G., Marinina V.F. etc. - M.: GEOTAR-M	1	30

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Military field surgery: hands. to pract. occupations / Ed. M.V. Lysenko - M.: GEOTAR-Media, 2010.	1	5
2	Military field surgery of local wars and armed conflicts: a guide / Ed. E.K. Gumanenko, I.M. Samokhina - M.: GEOTAR-Media, 2011.	1	5
3	Topographic anatomy and operative surgery In 2 vols. Vol. 1: textbook / ed. I.I. Kagan, I. D. Kirpatovsky - M.: GEOTAR-Media, 2013.	1	5
4	Surgical diseases and injuries in general medical practice / Sukovatykh B.S., Sumin S.A., Gorshunova N.K. - M. : GEOTAR-Media, 2013.	1	5
5	Gorshunova N.K. - M. : GEOTAR-Media, 2013. 5. History of medicine and surgery / Mirsky M.B. - M.: GEOTAR-Media, 2010.	1	5

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
	Internal Electronic Library System of the University (IELSU)	Proceedings of PIMU staff (textbooks, manuals, collections of tasks, methodological manuals, laboratory work, monographs, etc.)	Access by individual login and password from any computer and mobile device	Not limited

8.3.2. Electronic educational resources acquired by the University

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic library of a technical university (ELS "Student Consultant"	Textbooks and teaching aids for higher medical and pharmaceutical education	Access by individual login and password from any computer and mobile device	Not limited
2	Database «Doctor's Consultant. Electronic Medical Library»	National guidelines, clinical guidelines, textbooks, monographs, atlases, reference books, etc.	Access by individual login and password from any computer and mobile device	Not limited
3	Database "Electronic Library System "Bukap"	Educational and scientific medical literature of Russian publishing houses, incl. translated editions. The collection of subscription publications is formed point by point.	Access by individual login and password from any computer and mobile device	Not limited
4	Electronic periodicals in the database "SCIENTIFIC ELECTRONIC LIBRARY eLIBRARY"	Electronic medical journals	Access - from the computers of the university	Not limited

8.3.3 Open access resources

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
1	EBS "Urayt". Access mode: http://biblio-online.ru .	Textbooks and teaching aids for higher medical and pharmaceutical education	Not limited
2	EBS "Student Advisor". Access mode: http://www.studentlibrary.ru .	Textbooks and teaching aids for higher medical and pharmaceutical education	Not limited
3	EBS "Lan". Access mode: http://e.www.lanbook.com/ .	Textbooks and teaching aids for higher medical and pharmaceutical education	Not limited
4	EBS "Znaniy.com". Access	Textbooks and teaching aids for	Not limited

mode: www.znaniy.com.	higher medical and pharmaceutical education	
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9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

1. Lecture hall
2. Study rooms (5)
3. Departments of a clinical hospital with wards for patients (two surgical departments with 30 beds each)
 4. Reception department for emergency and planned patients
 5. Operating block with intensive care and intensive care units
 6. Treatment and dressing rooms
 7. Diagnostic departments and offices: radiation diagnostics, ultrasound, endoscopic department, laboratory departments, blood transfusion department

9.2. List of equipment for classroom activities for the discipline

1. Surgical instruments, devices, high-tech equipment (bases of the department)
2. Multimedia complex (laptop, projector, screen)
3. Kodascope
4. PC with Internet access
5. Sets of slides, tables, multimedia visual materials, videos on the topics of lectures and practical exercises

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	

6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft	23618/HN100 30 LLC "Softline Trade" from 04.12.2020
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10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of faculty of surgery and transplantology

CHANGE REGISTRATION SHEET

working program for the academic discipline
GENERAL SURGERY

Field of study / specialty / scientific specialty: 31.05.01 GENERAL MEDICINE _____
(code, name)

Training profile: _____
(name) - for master's degree programs

Mode of study: FULL-TIME
full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____ of _____ 20__

Head of the Department faculty
of surgery and transplantology
MD, Professor Zagainov V. E.
department name, academic title

_____/_____
signature print name