

APPROVE

Acting Vice-Rector for Academic Affairs, MD

prof. R.M. Ragimov

*Ragimov*

"01" July 2022

Discipline index according to the academic plan \_B1.O. 29  
Direction (specialty) \_\_31.05. 01 Medicine  
Higher education level - specialty  
Faculty: - Medical\_  
Department: \_\_\_\_ - General Surgery\_  
Form of education: - full-time  
Course: \_- 3  
Semester: \_- IV, V\_\_  
Total labor intensity (in credit units / hours) - 6 c.u. / 216 hours  
Lectures: \_\_\_\_\_ 42 hours  
Practical (seminar) lessons: \_\_\_\_\_ 102 hours  
Independent work \_\_\_\_\_ 36 hours  
Control form: \_\_\_\_\_ exam in V semester 36 hours

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The working program of the discipline "General Surgery" was developed in accordance with the Federal State Educational Standard of Higher Education in the direction of specialty **31.05.01. Medicine**, approved by order of the Ministry of Education and Science of the Russian Federation No. 988 dated "12" \_\_\_\_ 08 \_\_\_\_ 2020 year\_.

The work program of the academic discipline was approved at a meeting of the department from "\_27\_"June" 2022

The work program has been agreed upon:

1. Director of SMB DSMU \_\_\_\_\_ (V.R. Musaeva)
2. DEMW and QCE \_\_\_\_\_ (A.M. Karimova)
3. Dean of the Faculty of General Medicine \_\_\_\_\_ (R.T. Savzikhanov)

Head of the Department \_\_\_\_\_ Doctor of Medical Sciences, Prof.,  
Medzhidov R.T.

\_\_\_\_\_(academic degree / academic title N.P. Surname)

**Work program developer (s):**

1. Magomedova S.M., can. med. sciences, assistant of the department of general surgery.
2. Musaev Z.M-S., associate professor of the department of general surgery.

**Reviewers:**

1. Abdulkhalikov Abdulkhalik Salimkhanovich, associate professor of the department of hospital surgery FSBEI HE DSMU Ministry of Health of the Russian Federation, Doc. of medical sciences. Head educational part of the department.
2. Safarov S. U. - Professor of the Department of Surgical Diseases of the Pediatric, Dental and Medical-Preventive Faculties of the FSBEI HE DSMU of the Ministry of Health of the Russian Federation, doc. medical sciences medical sciences.

## I. Purpose and objectives of learning the discipline

**Purpose** - mastering the academic discipline "General Surgery" is the formation of students' understanding of the main areas of surgical work: compliance with the rules of asepsis and antiseptics when performing surgical procedures, stopping bleeding and reimbursement of blood loss; teaching students the basic principles of diagnosis and treatment of the most common surgical diseases and the provision of first aid in case of emergency.

### Tasks:

- purposefully find out the patient's complaints and the history of the development of the disease, conduct a physical examination of the surgical patient (examination, palpation, percussion, auscultation), outline a plan for the examination of the surgical patient;
- to organize surgical activities in compliance with the rules of asepsis in the premises of the surgical hospital and polyclinic;
- to determine the main surgical syndromes and diagnose the main types of purulent-septic diseases (etiology, pathogenesis, classification, clinic, basic principles of diagnosis and treatment of the most common surgical diseases);
- teaching students to provide first aid in case of emergency conditions;
- familiarizing students with the principles of organization and operation of medical and preventive institutions of various types;
- developing skills in studying scientific literature and official statistical reviews;
- formation of communication skills with the patient, taking into account ethics and deontology, depending on the revealed pathology and characterological characteristics of the patients;
- the formation of the student's communication skills with the team.

## II. PLANNED DISCIPLINE LEARNING OUTCOMES "GENERAL SURGERY"

Competencies formed in the process of studying the academic discipline:

	<b>Competency code and name (or part of it)</b>
<b>As a result assimilation competence learner must:</b>	
<b>General professional competences (GPC)</b>	
<b>GPC-4.</b> The ability to use medical devices provided for by the procedure for the provision of medical care, as well as to examine a patient in order to establish a diagnosis.	
<b>Id-1 gpc-4.</b> Use medical devices provided for by the procedure for the provision of medical care and write prescriptions for medical devices.	
<b>know</b>	-methods of carrying out urgent measures and indications for

	hospitalization of patients.
<b>be able to</b>	-apply aseptic and antiseptic methods, use medical instruments, rules for using medical instruments.
<b>own</b>	- the simplest medical instruments (phonendoscope); - information on the principles of sterilization, disinfection and antiseptic processing of instruments and equipment in order to avoid infection of the doctor and patient.

### III. PLACE OF DISCIPLINE IN THE STRUCTURE OF EDUCATIONAL PROGRAMS

The discipline "General Surgery" belongs to the basic part of B1. O. 29. curriculum for specialty 31.05.01 General medicine. The preceding disciplines on which the discipline "General Surgery" is directly based are: bioethics, human anatomy, histology with embryology, normal physiology, biochemistry, physics, microbiology, pharmacology.

The development of competencies in the process of studying the discipline contributes to the formation of knowledge, skills and abilities that allow for effective work to implement the tasks of professional activity:

- Bioethics

Knowledge: moral and ethical standards, rules and principles of professional medical behavior, the rights of the patient and the doctor, the main ethical documents of international and domestic professional medical

associations and organizations;

Skills: Build and maintain working relationships with other team members.

Skills: Principles of medical deontology and medical ethics

- Human anatomy

Knowledge: anatomical and physiological, age-sex and individual characteristics structure and development of the human body.

Skills: palpate the main bony landmarks on a person, outline the topographic contours of organs and the main vascular and nerve trunks;

Skills: master the medical and anatomical conceptual apparatus;

- Histology with embryology

Knowledge: basic patterns of development and life of the human body based on the structural organization of cells, tissues and organs; histofunctional features of tissue elements; methods of their research;

Skills: to analyze histophysiological states of various cellular, tissue and organ structures of the body;

- Normal physiology

Knowledge: functional systems of the human body, their regulation and self-regulation when exposed to the external environment is normal; healthy lifestyle teachings; the influence of the environment: positive and harmful factors on human health; about the relationship "doctor-patient".

Skills: interpret the results of the most common methods of laboratory and functional diagnostics, thermometry.

- Microbiology

Knowledge: The role of microorganisms in the etiology of surgical diseases, methods of microbiological diagnostics.

Skills: use knowledge of microbiology to substantiate and select an antiseptic method.

- Biochemistry

Knowledge: physicochemical and biochemical processes in a living organism.

Skills: chemical laws for solving situational problems.

- Physics

Knowledge: basic laws of physics, physical phenomena and laws underlying

at the heart of the processes occurring in the human body; physical foundations of the functioning of medical equipment, design and purpose of medical equipment; the principle of operation of medical equipment (MRI, MSCT, ultrasound), the principle of obtaining an ECHO tomogram.

Skills: Analyze the relevant findings of experimental measurements.

Skills: comply with the safety rules for working with medical equipment.

- Pharmacology

Knowledge: dosage forms, routes of drug administration, types of their actions and interactions. Side effects, types of reactions and complications of drug therapy.

Skills: find information about drugs in accessible databases.

#### **IV. EMPLOYMENT OF THE EDUCATIONAL DISCIPLINE AND TYPES OF CONTACT WORK**

Type of educational work	Total hours	Semesters	
		№ 4	№5
<b>Contact work (total), including:</b>	<b>144</b>		
<b>Classroom lessons (total)</b>			
Including			
Lectures (L)	<b>42</b>	<b>16</b>	<b>26</b>
Practical lessons (PL),	<b>102</b>	<b>36</b>	<b>66</b>
Seminars (S)	-	-	-
Laboratory studies (LS)	-	-	-
Extracurricular work (total), including:	-	-	-
Group, individual consultations	-	-	-
Individual work with the student	-	-	-

<b>Independent work of a student of (IWS)</b>	<b>36</b>	<b>20</b>	16
<b>Type of intermediate certification</b>	<b>36, exam.</b>		<b>36, exam.</b>
<b>Total labor intensity</b>			
hours	<b>216</b>		
credit units	<b>6</b>	<b>2</b>	<b>4</b>

## V. CONTENT OF THE DISCIPLINE WORKING PROGRAM

### 5.1. Sections of discipline and competence that are formed when studying them

<b>№ п/п</b>	<b>Name section of the discipline</b>	<b>Section content (section topics)</b>	<b>Supervised competency code (or part of it)</b>
1	2	3	4
<b>1.</b>	<b>Introduction to the subject</b>	1.The concept of surgery. A Brief History of Surgery. Current state of surgery. Ethics and deontology in surgery. 2. Organizational and legal Fundamentals of Surgical Activity. (Classes in the clinic).	<b>GPC-4. Id-1 gpc-4.</b>
<b>2.</b>	<b>General questions of surgery.</b>	3.Aseptics. Organization surgical department works and the operating unit. 4.Preparation of the surgeon's hands for the operation, preparation of the operating field. 5. Antiseptic. Mechanical antiseptic. Physical antiseptic. Chemical antiseptic. Biological antiseptic. Mixed antiseptic. (Final lesson). 6. Pain and pain syndrome, pain relief. Local anesthesia. 7. General nesthesia 8. General anesthesia. (Final lesson) 9. Critical disabilities in surgical patients. 10. Endogenous intoxication in surgery and principles of its correction. 11 Water-electrolyte disorders in surgical patients and principles of infusion therapy. (II-hour Final lesson). 12. Blood clotting disorders in surgical patients and methods of their correction. 13. Bleeding 14. Organization of blood service, donation. Procurement and storage of blood (lesson at a blood transfusion station). 15. Transfusion of blood and its	<b>GPC -4. Id-1 gpc-4.</b>



		components.	
<b>3</b>	<b>3 Fundamentals of clinical surgery</b>	16. Nutrition of surgical patients.	<b>GPC-4. Id-1 gpc-4.</b>
		17. Non-operative surgical technique. Puncture, injection, infusion. Desmurgy. Transport immobilization.	
		18. Drainage and plugging of wounds and body cavities. Drainage of hollow organs (II-hour Final lesson).	
		19. Examination of surgical patients. Academic case history of a surgical patient.	
		20. Fundamentals of injury surgery. General questions of injury surgery. Damage to soft tissues, tendons and joints.	
		21. Head injury. Injury to the chest. Injury abdomen.	
		22. Wounds. Treatment of wounds.	
		23. Fractures and dislocations.	
		24. Thermal damage. Burns: thermal and chemical. Cold injury. Electrical trauma.	
		25. Fundamentals of septic surgery. General issues of acute surgical infection. Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the cellular spaces. Purulent diseases of the glandular organs. Purulent diseases of the hand and foot.	
<b>4.</b>	<b>Stages of treatment of surgical patients</b>	26. Purulent diseases of serous cavities.	<b>GPC-4. Id-1 gpc-4.</b>
		27. Purulent diseases of bones and joints.	
		28. Surgical sepsis. (II hour - final lesson))	
		29. Specific surgical infection. Anaerobic and putrid infection.	
		30. Fundamentals of surgery for regional circulatory disorders. Arterial blood flow disorders. Venous circulation disorders. Lymph circulation disorders. Necrosis.	
		31. Fundamentals of surgical oncology.	
		32. Fundamentals of plastic surgery and transplantology. Fundamentals of malformation surgery.	
		33. Fundamentals of surgery for parasitic diseases.	
		34. First aid. Outpatient surgery.	
		35. Inpatient surgery. Preoperative period. Medical history of a surgical patient. 36. Period of the operation. Postoperative period.	

## 5.2. Sections of the discipline (module) and labor intensity by type of educational work.

№	№ semester	The name of the discipline section	Activities (in hours)				Evaluation tools for monitoring progress and intermediate certification based on the results of mastering the discipline
			L	PL	IW	Total	
1	2	3	4	5	6	7	8
1.	4	Section 1. Introduction to the subject	2	10	10	22	1 - interview; 2 - situational tasks;
2.	4	Section 2. General questions of surgery	14	26	10	50	1 - interview; 2 - test control; 3 - situational tasks; 4-control works.
3.	5	Section 3. Fundamentals of clinical surgery	16	30	10	56	1 - interview; 2 - test control; 3 - situational tasks; 4-control works
4.	5	Section 4. Stages of treatment surgical patients	10	36	6	52	1 - interview; 2 - test control; 3 - situational tasks; 4-control works
	5	Type of final certification	EXAM			36	Ticket interview
	<b>Total :</b>		<b>42</b>	<b>102</b>	<b>36</b>	<b>216</b>	

## 5.3. Thematic plan of lectures.

2	Discipline section	Name of lecture topics	Number of hours per semester	
			№4	№5
1.	Introduction to the subject	L.1. Surgery concept. A Brief History of Surgery. Current state of surgery. Ethics and deontology in surgery.	2	
2.	General questions of surgery	L.2. Asepsis. Antiseptic.	2	
		L.3 Pain syndrome. Local anesthesia. general anesthesia.	2	
		L.4. Critical disabilities in surgical patients.	2	
		L.5 Bleeding Blood clotting disorders in surgical patients.	2	
		L.6. Transfusion of blood and its components. Complications of transfusion.	2	



		L.7. Examination of a surgical patient.	2	
		L.8 Preoperative period, postoperative period.	2	
<b>3</b>	<b>Fundamentals of clinical surgery</b>	L.9 Fundamentals of injury surgery. General questions of traumatology. Fractures. Clinic, diagnostics, treatment. Dislocations. Clinic, diagnostics, treatment.		2
		L.10 Wounds, phases of the wound process. Treatment of wounds.		2
		L.11 Thermal burns. Chemical burns. Cold injury. Electrical trauma.		2
		L.12. General issues of acute surgical infection. Purulent diseases of the skin of the subcutaneous tissue.		2
		L.13 General questions of purulent diseases of serous cavities.		2
		L. 14. Purulent diseases of bones and joints. Necrosis, gangrene, ulcers, fistulas.		2
		L.15. General purulent infection (sepsis).		2
		L.16. Acute specific infection (tetanus, anthrax, diphtheria wounds).		2
		L.17 Anaerobic and putrefactive infection.		2
<b>4.</b>	<b>Stages of treatment of surgical patients</b>	L. 18. Arterial and venous blood flow disorders.		2
		L.19 Disorders of lymph circulation. Necrosis, ulcers, fistulas.		2
		L.20. Fundamentals of surgical oncology		2
		L.21. Developmental defects. Plastic surgery.		2
	<b>TOTAL :</b>		<b>42</b>	

#### 5.4. Thematic plan of practical training.

№	Discipline section	Name of practical topics occupations	Forms of the current control	Number of hours per semester	
				№4	№5
1.	<b>Introduction to the subject</b>	PL.1 "The concept of surgery. A Brief History of Surgery. Current state of surgery and deontology in surgery ". Acquaintance with the department, clinic, program.	I	2	
2.	<b>General questions of surgery</b>	PL. 2 Outpatient surgery.	I	2	
		PL. 3 First aid. Final lesson.	I, Cw	2	
		PL.4 Asepsis. Organization of the work of the surgical department and operating unit.	I, ST	2	
		PL.5. Preparing the surgeon's hands	I, ST	2	

		for surgery. Preparation of the operating field.			
		PL.6 Antiseptics. Mechanical antiseptic. Physical antiseptic. Chemical antiseptic. Biological antiseptic. Mixed antiseptic.	I	2	
		PL.7 Final lesson. Asepsis. Preparing the surgeon's hands for surgery. Preparation of the operating field. Antiseptic.	I	2	
		PL.8 Pain and pain syndrome, pain relief. Local anesthesia.	I, ST	2	
		PL.9 General anesthesia	I	2	
		PL.10 General anesthesia. (Final lesson)	I, Cw	2	
		PL.11 Critical disabilities in surgical patients.	I, ST	2	
		PL.12. Endogenous intoxication in surgery and the principles of its correction	I, ST, T	2	
		PL.13 Water-electrolyte disturbances in surgical patients and principles of infusion therapy. Final lesson.	I, Cw	2	
		PL.14 Blood coagulation disorders in surgical patients and methods of their correction.	I, ST	2	
		PL.15 Bleeding	I, ST	2	
		PL.16 Organization of blood service, donation. Procurement and storage of blood (lesson at a blood transfusion station)	I	2	
		PL.17 Transfusion of blood and its components.	I	2	
		PL.18 Final lesson.	Cw	2	
3.	III Основы клинической хирургии	PL.19. Nutrition for surgical patients.	I, ST		2
		PL.20 Non-operative surgical technique. Puncture, injection, infusion. Desmurgy. Transport immobilization.	I		2
		PL.21. Drainage and packing of wounds and body cavities. Drainage of hollow organs	I		2
		PL.22. Final lesson.	Cw		2
		PL.23. Fundamentals of injury surgery. General questions of injury surgery.	I, ST		2
		PL.24 Wounds. Treatment of wounds.	I, ST		2
		PL.25 Final lesson.	Cw		2
		PL. 26 Examination of surgical	I		2

		patients.			
		PL. 27 Academic medical history of a surgical sick.	I, IH of D		2
		PL. 28 Final lesson.			2
		PL. 29. Inpatient surgery. Preoperative surgery.	I		2
		PL. 30 Operation period.	I, T, ST		2
		PL. 31 Postoperative period.	I,T,ST		2
		PL. 32 Final lesson	Cw		2
		PZ.33 Head injury. Damage to soft tissues, tendons and joints.	I, T, ST		2
		PL.34 Injury to the chest. Abdominal trauma.	I		2
		PL.35 Fractures and dislocations.	I		2
		PL.36 Thermal damage. Thermal burns and chemical. Cold injury. Electrical trauma.	I,T, ST		2
		PL. 37 Final lesson.			2
		PL. 38 Fundamentals of purulent-septic surgery. General issues of acute surgical infection.	I		2
		PL. 39 Final lesson.	Cw		2
		PL.40 Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the cellular spaces. Purulent diseases of the glandular organs.	I,T,ST		2
<b>4.</b>	<b>IV. Treatment stages surgical patients</b>	PL.41 Purulent diseases of the hand and foot. Purulent diseases of bones and joints.	I		2
		PL.42 Diseases of the serous cavities.	I, T, ST		2
		PL.43 Surgical sepsis. Specific surgical infection. Anaerobic and putrid infection.	I, Cw		2
		PL. 44 Final lesson.	I, Cw		2
		PL.45 Fundamentals of surgery for regional circulatory disorders. Arterial disorders blood flow.	I		2
		PL.46 Disorders of venous circulation. Lymph circulation disorders. Necrosis.	I,T, ST		2
		PL.47 Fundamentals of surgical oncology.	I		2
		PL. 48 Fundamentals of Plastic Surgery and Transplantology.	I, T, ST		2

		Basics of malformation surgery development. Final lesson.			
		PL.49. Fundamentals of surgery of parasitic diseases	I		2
		PL.50. Fundamentals of Malformation Surgery	I, ST		2
		PL. 51 Final lesson.	Cw		2
		TOTAL:		36	66

### 5.5. Laboratory studies (not provided).

### 5.6. Educational and methodological support for independent work.

#### 5.6.1. Student's independent work.

<b>№ п/п</b>	<b>Name of the discipline section</b>	<b>Name of works</b>	<b>Total hours</b>	<b>Forms of control</b>
<b>1.</b>	<b>Introduction to the subject</b>	Preparation for classes	<b>8</b>	1 - interview; 2 - situational tasks;
<b>2.</b>	<b>General questions of surgery</b>	Preparation for classes	<b>12</b>	1 - interview; 2 - test control; 3 - situational tasks; 4-control works.
<b>3.</b>	<b>Basics of clinical surgery</b>	Preparation for classes	<b>10</b>	1 - interview; 2 - test control; 3 - situational tasks; 4-control works
<b>4.</b>	<b>Stages of treatment of surgical patients</b>	Preparation for classes	<b>6</b>	1 - interview; 2 - test control; 3 - situational tasks; 4-control works
	<b>Total:</b>		<b>36</b>	
	<b>Preparing for intermediate control</b>			1 - interview; 2 - test control; 3 - situational tasks; 4-abstract
	<b>Preparing for intermediate control</b>			1 - interview; 2 - test control; 3 - situational tasks; 4- control work;
	<b>Exam</b>			Oral by ticket, test control

#### 5.6.3. Methodical instructions for students on mastering the discipline.

This section of the work program of the discipline is developed as an independent document "Methodological recommendations for the student" in the form of an appendix to the work program of the discipline "General surgery".

## **VI. ESTIMATED MEANS FOR CURRENT CONTROL OF PERFORMANCE AND INTERMEDIATE CERTIFICATION ON THE RESULTS OF THE DISCIPLINE DEVELOPMENT.**

### **6.1. Current monitoring of progress**

#### **6.1.1. The list of competencies with an indication of the stages of their formation in the process of mastering the work program of the discipline**

<b>№ п/п</b>	<b>Name of the discipline section "General surgery"</b>	<b>Supervised competency code (or part of it)</b>	<b>Forms of control</b>
<b>1.</b>	<b>Introduction to the subject</b>	GPC-4 Id-1 gpc-4	1 - interview; 2 - situational tasks;
<b>2.</b>	<b>General questions of surgery</b>	GPC-4 Id-1 gpc-4	1 - interview; 2 - test control; 3 - situational tasks; 4-control works.
<b>3.</b>	<b>Basics of clinical surgery</b>	GPC-4 Id-1 gpc-4	1 - interview; 2 - test control; 3 - situational tasks; 4-control works
<b>4.</b>	<b>Stages of treatment of surgical patients</b>	GPC-4 Id-1 gpc-4	1 - interview; 2 - test control; 3 - situational tasks; 4-control works

#### **6.1.2. Evaluation tools for monitoring progress**

**GPC-4. Method of using medical devices provided for by the order of medical care.**  
**Id-1 gpc-4. Use medical devices provided for by the procedure for the provision of medical care and write prescriptions for medical devices.**

<b>know</b>	the rules for the use of medical instruments - methods of carrying out urgent measures and indications for hospitalization of patients.
<b>be able to</b>	apply aseptic and antiseptic methods, use medical instruments, rules for using medical instruments.
<b>own</b>	simple medical instruments (phonendoscope); information on the principles of sterilization, disinfection and

antiseptic processing of instruments and equipment in order to avoid infection of the doctor and patient.

## EXAMPLE

### CURRENT CONTROL OF PERFORMANCE INTERVIEW ON THE TOPIC OF PRACTICAL EXERCISE

#### Section 3. General questions of surgery. Practical lesson № 15 Bleeding (2 hours).

##### Controlled competency codes: GPC-4 ID-1gpc-4

##### Evaluation criteria for monitoring progress (interview on control questions):

###### "Excellent":

The student has a deep knowledge of the educational material on the topic of the practical lesson, formulated a complete and correct answer to the questions of the topic of the lesson, observing the logic of the presentation of the material, shows the assimilation of the relationship of the basic concepts used in the work, was able to answer all clarifying and additional questions. The student demonstrates knowledge of theoretical and practical material on the topic of the lesson.

###### ✓ "Good":

The student showed knowledge of the educational material, mastered the basic literature, was able to answer almost completely all the additional and clarifying questions asked. The student demonstrates knowledge of theoretical and practical material on the topic of the lesson, allowing minor inaccuracies.

###### ✓ "Satisfactory":

The student as a whole mastered the material of the practical lesson, did not answer all the clarifying and additional questions. The student finds it difficult to correctly assess the proposed problem, gives an incomplete answer, requiring leading questions from the teacher.

###### ✓ "Unsatisfactory":

The student has significant gaps in knowledge of the basic educational material of the practical lesson, did not fully disclose the content of the questions, and was unable to answer clarifying and additional questions. The student gives an incorrect assessment of the situation, chooses the wrong algorithm of actions. An unsatisfactory mark is given to a graduate who refused to answer the questions of the topic of the practical lesson.

## TESTING

##### Controlled competency codes: GPC-4 ID-1gpc-4

#### Section 3. General questions of surgery. Practical lesson No. 17. Blood transfusion (2 hours).

##### Controlled competency codes: GPC-4 ID-1gpc-4

##### Option 4

1. When incompatible blood is transfused, the following develops:
  - a) acute renal failure
  - b) DIC - blood syndrome

- c) pulmonary embolism
- d) infarct pneumonia
- 2. Hemorrhage is:
  - a) bleeding into the cavity
  - b) soaking tissues with blood
  - c) accumulation of blood in a hollow organ
  - d) accumulation of blood limited to tissues
- 3. What kind of bleeding is parenchymal?
  - a) from the liver
  - b) from varicose veins of the esophagus
  - c) from the jugular vein
  - d) from a chronic ulcer 12PC
- 4. Which of the following methods refers to the methods of temporary stop bleeding?
  - a) applying a pressure bandage
  - b) ligation of the vessel in the wound
  - c) vascular suture
  - d) electrocoagulation of the vessel
- 5. What endoscopic research methods can clarify the diagnosis of intra-abdominal bleeding
  - a) colonoscopy
  - b) bronchoscopy
  - c) laparoscopy
  - d) esophagogastroduodenoscopy
  - e) sigmoidoscopy
- 6. What diagnostic method can objectively confirm the presence of hemoperitoneum:
  - a) R-scopy of the abdominal cavity
  - b) laparoscopy
  - c) thoracoscopy
  - d) radioisotope research
- 7. A characteristic sign of gastric bleeding:
  - a) vomiting with fresh blood clots
  - b) vomiting "coffee grounds"
  - c) cough with frothy scarlet blood
- 8. Cough with foamy scarlet blood is typical for the following type of bleeding:
  - a) stomach
  - b) pulmonary
  - c) uterine
  - d) nasal
- 9. Method for diagnosing gastric bleeding:
  - a) EFGDS
  - b) Ultrasound of the stomach
  - c) laparoscopy
  - d) X-ray of the stomach

**Criteria for assessing the current monitoring of progress (testing):**

- ✓ "Excellent": 100-90%
- ✓ "Good": 89-70%
- ✓ "Satisfactory": 69-51%
- ✓ "Unsatisfactory": <50%



**Section 3. Fundamentals of Clinical Surgery. Lesson number 20. Non-operative surgical technique. Puncture, injection, infusion. Desmurgy. Transport immobilization.**

**Controlled competency codes: GPC-4 ID-1 gpc-4**

1. Types of tires, indications for their use.
2. Apply a Dezo bandage.
3. Apply a "glove" bandage to the fingers of the hand.
4. Stopping bleeding by finger pressure of large vessels.
5. Putting on sterile clothing.
6. Apply Kramer's transport bus.
7. The imposition of a tourniquet for bleeding.

**Criteria for assessing the current monitoring of progress (layout, phantom):**

✓ **"Unsatisfactory":**

The student does not have practical skills in phantoms and does not know the surgical instrumentation.

✓ **"Satisfactory":**

The student has basic skills, but makes mistakes and inaccuracies in the scientific terminology used and when answering the surgical phantom. The student is basically able to independently state the provisions in the studied material. The student is able to master the skill of using some surgical instruments.

✓ **"Good":**

The student possesses knowledge of all the studied program material, presents the material consistently, makes minor mistakes and shortcomings when reproducing the studied material. The student does not have sufficient skill in working with reference books, textbooks, primary sources; orientates correctly, but works slowly on surgical phantoms.

✓ **"Excellent":**

The student independently identifies the main provisions in the studied material and is able to give a brief description of the main ideas of the studied material. The student is proficient in demonstrating the application of Kramer's transport bus, can determine the suitability of plaster, is proficient in the technique of applying plaster casts, caps on the head, Dezo's bandages, and gloves on the fingers of the hand. The student shows a deep and complete mastery of the entire volume of the studied discipline.

**PROTECTING THE STORY OF THE DISEASE**

***EXAMPLE!***

Each student must submit a self-completed case history according to the model (a complete sample is presented in the FAT). Immediately during the defense of the case history, the student must clearly justify the diagnosis and the plan for the management of the postoperative period.

**Federal state budget educational university of higher education  
"Dagestan state medical university"  
Ministry of Health of the Russian Federation**

Department of general surgery

Head of the department: Medzhidov R.T.

**DISEASE HISTORY**

Writing a history algorithm - patient supervision and writing of the patient's medical history according to the scheme:

1. Title page.
2. Passport part.
3. Complaints made by the patient.
4. Anamnesis morbi.
5. Anamnesis vitae.
6. Allergic history.
7. Transfusion history.
8. Previous diseases, injuries and operations.
9. Family history and heredity data.
10. Expert history.
11. Skin and mucous membranes (oral cavity, conjunctiva).
12. Subcutaneous fat.
13. Lymphatic system.
14. Musculoskeletal system.
15. Nervous system.
16. Organs of blood circulation and respiration.
17. The digestive organs.
18. Organs of urinary excretion.
19. Endocrine system.
20. Status localis.
21. Preliminary diagnosis.
22. Research methods.
23. Clinical diagnosis.
24. Indications for surgery (preoperative epicrisis) and surgery protocol.
25. Diary.
26. Epicrisis.

Completed: student.... course ..... fac. ....

Checked: ass. departments, .....

**Makhachkala, 2022**

**Criteria for assessing medical history:**

✓ "Excellent":

The work fully meets the requirements and the scheme of registration of the medical history. Written competently, in literary language, using modern medical terminology. The student is able to consciously and efficiently transform the knowledge gained while characterizing the theoretical, clinical-diagnostic and therapeutic aspects of the discipline "General Surgery"

✓ "Good":

In the educational history of the disease, the student makes some inaccuracies in the formulation of a detailed clinical diagnosis, examination and treatment.

✓ "Satisfactory":

The educational history of the disease is framed with errors, written in illegible handwriting, inaccuracies in the formulation of a detailed clinical diagnosis, treatment, complaints are not fully covered, the history of the patient's disease and life, epicrisis.

✓ "Unsatisfactory":

The history of the disease was written in illegible handwriting, with gross errors (a detailed clinical diagnosis was not presented and not justified, treatment was prescribed incorrectly, complaints, the history of the disease and the patient's life were not covered).

### **TESTING ON DISCIPLINE sections**

#### **GPC-4 ID-1gpc-4. Typical tasks for assessing the results of the formation of competence, at the "Know" level**

1. First degree shock is characterized by:

- a) Preservation of consciousness
- b) reducing the A / D to 80/40 mm.
- c) lethargy
- d) lack of breathing
- e) severe tachycardia

2. With shock of the second degree, A / D is within:

- a) 140-130 mm. Hg
- b) 120-110 mm. Hg.
- c) 90-70 mm. Hg
- d) 110-100 mm. Hg
- e) 70-60 mm. Hg

3. Name the main clinical signs of grade IV traumatic shock:

- a) clear consciousness
- b) the consciousness is confused; the patient is at times agitated
- c) contact with the patient is possible periodically
- d) no contact with the patient, systolic A / D below 50 mm Hg, the pulse is threadlike
- e) pulse is satisfactory 110 beats; the patient has speech excitement

#### **Evaluation criteria for monitoring progress (tests):**

- ✓ "Excellent": 100-90%
- ✓ "Good": 89-70%
- ✓ "Satisfactory": 69-51%
- ✓ "Unsatisfactory": <50%

### **SITUATION TASKS by discipline sections**

#### **Controlled competency codes: GPC-4 ID-1gpc-4**

#### **Typical tasks for assessing the results of the formation of competence, at the "Be able" level**

##### **Situational task number 1.**

A young man, 22 years old, was admitted to the emergency clinic with complaints of general weakness, vomiting of coffee grounds, tarry stools. He considers himself to be sick for about 1 year, when he began to notice "hungry" pains in the epigastrium that periodically arise in spring and autumn. He was treated independently. Two days ago I noticed a tarry stool. Objectively, the general condition is satisfactory. The skin and mucous membranes are pale pink, pulse 96 per minute, rhythmic, BP 110/80 mm Hg. The abdomen is not distended; on

palpation it is slightly painful in the epigastrium. Peristalsis is heard, the stool is dark in color. In the blood: Er  $4.5 \times 10^9/l$ , HB –100 g/l.

**Questions:**

1. Diagnosis.
2. Instrumental and laboratory methods of examination.
3. The principles of conservative therapy.
4. Indications for surgical treatment and its possible options.

**Situational task number 2.**

A 51-year-old state farm worker received a bruised cut wound in the left parietal region.

**Вопросы:**

1. Объем медицинской помощи
2. В какое отделение следует госпитализировать пациента?

**Questions:**

1. Scope of medical care
2. Which department should the patient be admitted to?

**Typical tasks for assessing the results of the formation of competence, at the "Own" level**

**Situational task number 3.**

A 59-year-old patient was admitted to the emergency room of the hospital on an emergency basis. Suddenly fell ill 10-12 hours ago, when pains appeared in the left half of the abdomen, which intensified and took a cramping character, vomiting three times with stagnant contents, gases did not go away. Objectively: the skin is of normal color, the tongue is coated with a white coating, moist. Pulse 88 per minute, rhythmic. The abdomen is evenly swollen, participates in the act of breathing. On palpation, soft, diffuse soreness with predominant localization in the lower sections. Percussion tympanitis along the colon, peristalsis is heard, weakened, "splash noise" is determined. Weakly positive peritoneal symptoms in the left iliac region and above the bosom. At digital rectal examination, the ampulla is empty, traces of feces are of the usual color. In the analysis of blood: Leukocytes  $-13.2 \times 10^9/l$ , Er  $-4.4 \times 10^9/l$ , ESR 23 mm / h.

**Questions:**

1. Presumptive diagnosis.
2. Survey methods.
3. Differential diagnosis.
4. Treatment.

**1.2. Interim certification based on the results of mastering the discipline**

**1.2.1. Intermediate certification form - exam-XII.**

**6.2.2. Intermediate certification procedure - Intermediate certification is carried out in the form of an exam (by tickets).**

**6.2.3. Sample questions to prepare for the exam.**

**Controlled competency codes: GPC-4 ID-1gpc-4**

1. Types of circulatory disorders.

2. Principles of wound treatment in the hydration phase.
3. Invasive methods of heart examination.
4. The concept of surgical deontology.
5. Classification of sepsis (by clinic, anatomical features and time development).
6. Wet gangrene, clinic. Treatment.
7. Sterilization of optical instruments (cystoscope, laparoscope, etc.)
8. General treatment of acute purulent surgical infection.
9. Ekinokokkosis. The developmental cycle of the parasite.
10. List the names of proteolytic enzymes.
11. The merit of Shamov and Yudin in the development of blood transfusion issues.
12. Indications for the treatment of fractures with plaster casts.
13. The difference between a false aneurysm and a pulsating hematoma.
14. What factors contribute to frostbite?
15. Classification of anaerobic gas gangrene by origin
16. Definition of the concept of "antiseptic"
17. General treatment for purulent-inflammatory diseases of the fingers and hands.
18. Indications for free skin plastics.
19. The role of antibiotics in the development of surgery.
20. Treatment of arterial thrombosis, thromboembolism.
21. What kind of pain relief is used in operations for panaritium
22. Name the zones of the operating unit.
23. Clinic of traumatic asphyxia.
24. What is tumor recurrence and what is its cause.
25. Postoperative complications from the abdominal organs (list).
26. The concept of "gangrene", the classification of gangrene by origin.
27. The concept of replantation.
28. Classification of wounds according to the conditions of their occurrence.
29. Tactics of treatment of hemothorax, depending on the volume.
30. Malformations of the genitourinary system.
31. Methods of sterilization of surgical instruments.
32. Digital compressed vessels to stop bleeding. Indications, points pressing
33. Clinic of brain injury.
34. Types of operative fixation of fractures.
35. Classification of osteomyelitis.
36. General nonspecific treatment of gas gangrene.
37. Hospital-acquired infection.
38. The concept of intraosseous local anesthesia.
39. Operation (definition, types)
40. Stages of the preoperative period.
41. Definition "fracture", Latin name, first aid for fractures.
42. Collapse. Clinic. Diagnostics, treatment.
43. Disorders of potassium and sodium metabolism.
44. What do the terms "hypercapnia", "hypoxia" mean?
45. Features of damage to the body by electric current.
46. The main stages of wound healing.
47. General symptomatology in osteoarticular tuberculosis.
48. What types of biopsies do you know?
49. Biochemical characteristics of the wound in the phase of dehydration

50. Name the early signs and common symptoms of peritonitis
51. What measures are taken during the operation in order to maintain asepsis and antiseptics
52. What processes occur in a wound during primary healing?
53. List the classification of peritonitis.
54. The concept of reconstructive operations.
55. Methods of control over the quality of pre-sterilization and cleaning of instruments, on presence of blood.
56. Features of the primary surgical treatment of head and face wounds.
57. Non-clostridial anaerobic infection: etiopathogenesis, clinical picture, treatment.
58. Name the benign tumors developing from epithelial tissue.
59. Primary and secondary wound infection.
60. The concept of isogenic transplant.
61. Controlled arterial hypotension.
62. Reinfusion (retransfusion) of blood, contraindications, dangers.
63. Significant signs of fractures.
64. Introductory anesthesia.
65. Types of callus, instruments for applying skeletal traction.
66. What clinical stages are distinguished in the development of peritonitis.
67. Types of violations of water exchange.
68. At what stages of cancer is radical surgery possible in oncological sick?
69. Central lung cancer: diagnostic methods.
70. Preparation of the anesthesia machine for work.
71. Mechanism and clinic of tension pneumothorax.
72. Pre-arthritis phase of osteoarticular tuberculosis.
73. Secondary bleeding, types and causes of their occurrence.
74. Causes of hypokalemia and methods of correction.
75. Pneumothorax: clinic, diagnostic methods, treatment.
76. Prominent representatives of surgery of the Russian Federation.
77. Local changes in a limb subject to prolonged compression, causes of mortality of patients.
78. Clinic of bedsores.
79. Anthrax. Anthrax carbuncle.
80. Methods for the preservation of organs and tissues.
81. The most frequent surgical interventions for burns.
82. Who offered ether anesthesia and when?
83. Basic research methods of colon pathology.
84. First aid and freezing of muscle tears.
85. Quality control of sterilization of dressing material and linen in an autoclave.
86. The final methods of stopping bleeding.
87. Conditions conducive to the formation of a pseudarthrosis.
88. Anuria, definition, treatment.
89. Anthrax. Anthrax carbuncle.
90. The main preventive directions for tetanus.
91. Abscesses and phlegmon, classification, treatment.
92. Characteristics of bruised and lacerated wounds.
93. Spinal anesthesia, indications, technique.

#### **6.2.4. Sample exam ticket:**

## **Controlled competency codes: GPC-4 ID-1gpc-4**

FSBEU HE DSMU

Department of general surgery

Ministry of Health of Russia

Specialty 31.05.01 "General Medicine"

Discipline "General Surgery"

### **EXAMINATION TICKET No. 2**

1. Modern methods of diagnostics of surgical diseases.
2. Treatment of blood transfusion shock.
3. Clinical manifestations of acute sepsis and factors determining its manifestations.

Task.

A 45-year-old patient with an open fracture was admitted to the trauma department tibia. Methods for clarifying the diagnosis? Medical tactics? Prevention of infection?

Approved at a meeting of the department, minutes from "\_27\_" 06\_\_2022 \_\_. No. 9\_\_

Head of the department of general surgery \_\_\_\_\_ MD, Professor R.T. Majidov

### **1.2. Description of indicators and criteria for assessing competencies at various stages of their formation, description of assessment scales:**

Evaluation criteria	Шкала оценивания			
	"Unsatisfactory" (minimum level not reached)	"Satisfactory" (minimum level)	"good" (average level)	"Great" (high level)
Competency code. GPC-4 The ability to use medical devices provided for by the procedure for the provision of medical care, as well as to examine a patient in order to establish a diagnosis.				
<b>ID -1 gpc-4</b> Use medical devices provided for by the procedure for the provision of medical care and write prescriptions for medical devices.				
<b>know</b>	The student is not able to independently highlight the main provisions in the studied material of the discipline. Does not know and does not understand a significant or main part of the program material within the scope of the questions posed.	The student has mastered the main content of the material of the discipline, but has gaps in the assimilation of the material that do not impede the further assimilation of the educational material. Has unsystematic knowledge of discipline modules. The material is presented fragmentarily, not consistently.	The student is able to independently highlight the main provisions in the material studied. Knows the basic concepts in the sections of general surgery. Shows deep knowledge and understanding of the entire volume of program material.	The student independently identifies the main provisions in the studied material and is able to give a brief description of the main ideas of the studied material of the discipline. Knows the rules for using medical instruments - methods of carrying out urgent measures and indications for hospitalization of patients.



<b>be able to</b>	The student does not know how use terminology.	The student has mastered the main categories of considered and additional issues; there are difficulties or admitted errors in the definition of concepts, the use of terminology, corrected after several leading questions; with incomplete knowledge of the theoretical material.	The student has demonstrated the ability to analyze material, but not all the conclusions are reasoned and evidentiary; demonstrated assimilation mainstream literature.	The student is able to independently illustrate theoretical positions specific examples, apply them in a new situation. Knows how to apply the methods of asepsis and antiseptics, use medical instruments, the rules for the use of medical instruments.
<b>own</b>	The student made mistakes in the definition of concepts, when using terminology, which are not fixed after a few leading questions.	The student has incomplete or inconsistently disclosed the content material, but a general understanding of the issue is shown and skills are demonstrated that are sufficient for further assimilation of the material;	The student has knowledge of everything studied program material, the material expresses sequentially, but allows minor errors and shortcomings when reproducing the studied material.	The student has demonstrated the ability to creatively apply knowledge of theory to a solution professional tasks; demonstrated knowledge of modern educational and scientific literature. Owns the simplest medical instruments (phonendoscope); Has information on the principles of sterilization, disinfection and antiseptic processing of instruments and equipment in order to avoid infection of the doctor and patient

## VII. EDUCATIONAL - METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE.

### 7.1. Main literature

#### Printed editions

п/ №	Name	Author(s)	Number of copies
			IN LIBRARY
1.	General surgery	Gostishchev, V.K. General surgery: textbook / Gostishchev V.K. - 4th ed., Revised. and add. - Moscow: GEOTAR-Media, 2010 .-- 848 p. ISBN 978-5-9704-	50

		1579-5	
2.	General surgery	Gostishchev, V.K. General surgery: textbook / V.K. Gostishchev. - 5th ed., Rev. and add. - Moscow.: GEOTAR - Media, 2013 - 728 pp. ISBN №978-5-9704-2574-9	50
3.	General surgery	Gostishchev, V. K. General surgery [Text]: textbook / V. K. Gostishchev. - Moscow: GEOTAR-Media, 2016. -- 727 p. ISBN No. 978-5-9704-3878-7	50
4.	General surgery	Zubarev, P.N. General surgery: textbook / P.N. Zubarev. - 3rd ed. Add. And rev.-St. Petersburg: SpetsLit, 2011.-607 p. ISBN No. 978-5-299-00457-1	50
5.	General surgery	Kuznetsov N.A. General surgery: textbook / N.A. Kuznetsov - 3rd ed. Moscow: MEDpress-inform, 2018. ISBN No. 978-5-00030-566-9	50
6.	The Medical History of a Surgical Patient	N.V. Merzlikin N.A. Brazhn[kova et al Moscow: GEOTAR-Media, 2018. -- 119 p. ISBN No. 978-5-9704-4465-8	10

### Electronic sources:

№	Edition name
1	General surgery (electronic resource): textbook / V.K. Gostishchev 5th ed., corrected. and additional - Moscow: GEOTAR-Media, 2022. -736s.- ISBN 978-5-9704-7027-5. - Text: electronic // EBS "Student Consultant": [website]. – URL: <a href="https://www.studentlibrary.ru/ISBN9785970470275.html">https://www.studentlibrary.ru/ISBN9785970470275.html</a>
2	General surgery (electronic resource): textbook / V.K. Gostishchev M.: GEOTAR-media, 2016. Access mode: <a href="http://www.Studmedlib.ru/book/ISBN9785970438787.html">http://www. Studmedlib.ru/book/ISBN 9785970438787.html</a>
3	General surgery (electronic resource): textbook / V.K Gostishchev 5th ed., Revised. Ed. add. -M.: GEOTAR-media, 2015. Access mode: <a href="http://www.Studmedlib.ru/book/ISBN9785970432143/html">http// www. Studmedlib.ru/book/ISBN9785970432143/html</a> . Access mode: by login and password.

## 7.2 Additional literature

### Printed editions

№ п\п	Edition name	Number of copies
		in library

1.	Lectures on general surgery. Educational allowance. Khamidov A.I. 2000 Makhachkala DSMA	390
2.	General surgery. Workshops. Chernov V.N. 2006, Rostov-on-Don. ISBN 5-94587-185-2	50
3.	Sepsis. Tutorial. Medzhidov R.T., Magomedova S.M. Makhachkala DSMU. Alef Publishing house, 2020 ISBN 978-5-00128-610-3	100
4.	Fundamentals of Clinical Surgery in Test Questions and Clinical Problems. Medzhidov R.T., Magomedov M.G., Ramazanov M.-Z.A., Aliev B.O. Makhachkala: CPI DSMA, 2013.	100
5.	Basics of asepsis and antiseptics. Study guide - Makhachkala: CPC DSMA. Medzhidov R.T. 2007	100
6.	Blood clotting disorders in surgical patients and methods of their correction. Lecture course. Magomedov M.G. Makhachkala. 2006	100
7.	Acute specific surgical infection. - Makhachkala: DSMU, 2021. ISBN 978-5-00128-657-8	100
8.	Blood transfusion and blood substitutes. Study guide. Aliev B.O. Ramazanov M.R. Makhachkala. 2017	100
9.	Water-electrolyte metabolism and acid-base state in surgical patients. Tutorial. Medzhidov R.T. Makhachkala: DSMA. 2012	100
10.	Obliterating atherosclerosis of the arteries of the lower extremities. Study guide. Magomedov M.G. Makhachkala. 2007	100

### Electronic sources:

№	Edition name
1	General surgery (electronic resource): textbook / Petrov S.V. 4th ed., revised. Ed. add. - M.: GEOTAR-media, 2012. Access mode: <a href="http://www.Studmedlib.ru/book/ISBN_9785970422816.html">http:// www. Studmedlib.ru/book/ISBN 9785970422816.html</a>

### 7.3. Resources of the information and telecommunication network "Internet".

[www.studmedlib.ru](http://www.studmedlib.ru). – EBS "Student Consultant" (electronic library)

<http://www.surgeon.spb.ru> Online journal of surgery

<http://www.scsml.rssi.ru> home page of the State Central medical library, Moscow

### 7.4. Information technology

When studying the discipline, a general package of documents is used, Internet materials, which provide ample opportunities for improving university training in normal physiology in order to master the skills of educational activities. The standard features of most programs are the implementation of the didactic principle of visibility in teaching; their use enables students to use various methods to solve an educational problem. Teaching methods using information technology. To teaching methods using information technology,

used in the classroom in the discipline "General Surgery" include:

- demonstration of multimedia materials, including video films;
- a list of search engines (mooodle.dgmu.ru platform).
- list of encyclopedic sites;
- office programs for programs of distance learning organizations.

*List of information reference systems:*

1. **Digital information environment (DIE) DSMU.** URL: <https://lms.dgmu.ru/>
2. **Student advisor:** electronic library system. URL: <http://www.studentlibrary.ru>
3. **Physician consultant: electronic library system.** URL: <http://www.rosmedlib.ru>
4. **Federal electronic medical library (FEML).** URL: <http://feml.scsml.rssi.ru>
5. **Scientific electronic library eLibrary.** URL: <https://elibrary.ru/defaultx.asp>
6. **Medical reference information system.** URL: <http://www.medinfo.ru/>
7. **Scientific electronic library CyberLeninka.** URL: <http://cyberleninka.ru>
8. **E-library RFFI.** URL: <http://www.rfbr.ru/>
9. **All-Russian educational Internet program for doctors.** URL: <http://www.internist.ru>

## VIII. MATERIAL AND TECHNICAL SUPPORT OF THE DISCIPLINE

п/п	Room type	Equipment identification
.	Classrooms № 1 For practical training and intermediate certification (M. Hajiyev str. 33), (54m2).	In the course of the study of the subject, the wards of the surgical hospital of the Republican Clinical Hospital No. 2 are used - 25 beds, classrooms (3) with phantoms for intramuscular injection, a phantom of sounding and gastric lavage, a simulator for practicing intramuscular injections into the shoulder, phantoms of the male perineum for catheterization of the bladder, a set of posters
	Training rooms No. 3 For practical training (EOS medical center, clinic, Aliyev st., 4A / 1), (54 m2)	In the course of studying the subject, the chambers of the EOS of the medical center, classrooms (3) with phantoms for intramuscular injection, a set of posters, and surgical instruments are used.
	Study rooms №4 For practical training and independent work. (street Lyakhova 47), (64 m2)	In the course of studying the subject, the chambers of the surgical hospital of the RKB 25 beds, the burn center of the RCH - 25 beds, classrooms (3) with phantoms for intramuscular injection, a phantom of sounding and gastric lavage, a simulator for practicing intramuscular injections into the shoulder, phantoms of the male perineum for urinary catheterization are used. bladder, set of posters, surgical instruments.
	Учебные комнаты №5 Махачкалинская клиническая больница ФГБУЗ ЮОМЦ ФМБА России (Портовская больница) (ул. Ахмедхана Абубакара, 60, (15м2) Study rooms number 5 Makhachkala clinical hospital FSBI HC "SRMC of the FMANBA"of Russia (Port Hospital) (st.Ahmedkhan Abubakar, 60, (15m2)	In the course of studying the subject, the chambers of the surgical hospital of the FSBI HC "SRMC of the FMANBA"of Russia are used - 25 beds, a classroom (1), a set of posters, surgical instruments.
	Training room number 6.RCH of Ambulance (street Pirogova 3).	In the course of studying the subject, the chambers of the surgical hospital of the RCH

		of Ambulance are used - 50 beds, a classroom (1).
	GBU RD "City Clinical Hospital No. 1"	Classrooms (1) with phantoms for intramuscular injection, phantoms for intubation and gastric lavage, a simulator for practicing intramuscular injections into the shoulder, male perineal phantoms for bladder catheterization, a set of posters, surgical instruments.
	Lecture hall	<i>St. A. Alieva 1 building 2</i> Multimedia complex (laptop, projector, screen)
	At the Scientific Library of the DSMU. Library reading room (for independent work). St. Aziz-Aliyev 1. Biokurpus, 1st floor.	Library reading room (electronic reading room). Tables, chairs, computers for working with electronic resources, educational scientific periodicals.

## IX. USE OF INNOVATIVE (ACTIVE AND INTERACTIVE) LEARNING METHODS

Used active teaching methods in the study of this discipline  
make up \_\_6.1 \_\_% of the volume of classroom studies (144 hours).

№	Section name	Type, title of the topic of the lesson using forms of active and interactive teaching methods	Labor intensity * (hours)
1.	General questions of surgery.	Lecture number 3. "General anesthesia". Problematic lecture.	1
2.	General questions of surgery.	Lecture number 5. "Bleeding Disorders of blood clotting in surgical patients." Problematic lecture.	1
3.	General questions of surgery.	Lecture number 7. "Examination of a surgical patient. Preoperative period, postoperative period". Problematic lecture.	1
4.	General questions of surgery.	Practical lesson number 14. "Organization of blood service, donation. Procurement and storage of blood (lesson at a blood transfusion station). " Case technologies.	1
2.	Fundamentals of clinical surgery.	Seminar No. 19 Presentation on "Nutrition for Surgical Patients".	1
4	Fundamentals of clinical surgery.	Practical lesson number 20. Non-operative surgical technique. Puncture, injection, infusion. Desmurgy. Transport immobilization. BarCamp, or anti-conference.	1
5	Stages of treatment of surgical patients	Practical lesson No. 47 "Surgical sepsis". An interactive lesson using audio and video materials, ICT.	1

## X. FEATURES OF THE ORGANIZATION OF TRAINING ON THE DISCIPLINE FOR DISABLED AND PERSONS WITH DISABILITIES.

### 10.1. Training of people with disabilities and people with disabilities

If necessary, it is carried out by the department on the basis of an adapted work program using special teaching methods and didactic materials, compiled taking into account the

characteristics of psychophysical development, individual capabilities and the state of health of such students (student).

**10.2. In order to master the curriculum of the discipline by disabled people and persons with disabilities,** the department provides:

- 1) for people with disabilities and people with visual impairments:
  - placement in accessible for students who are blind or visually impaired, places and in an adapted form of reference information on the schedule of training sessions;
  - the presence of an assistant who provides the student with the necessary assistance;
  - release of alternative formats of teaching materials (large print or audio files);
- 2) for people with disabilities and people with hearing disabilities:
  - reproduction of information by appropriate sound means;
- 3) for disabled people and persons with disabilities with disorders of the musculoskeletal system:
  - the possibility of unimpeded access of students to classrooms, toilet rooms and other premises of the department. In case of impossibility of unimpeded access to the department, organize the educational process in a specially equipped center for individual and collective use of special technical training aids for the disabled and persons with disabilities (A. Aliyev st. 1, biological building, 1st floor, scientific library of the DSMU).

**10.3. Education of students with disabilities** can be organized both together with other students, and in separate groups.

**10.4. The list of educational and methodological support for independent work of students in the discipline.**

Educational and methodological materials for independent work of students from among the disabled and persons with disabilities are provided in forms adapted to the limitations of their health and perception of information:

Categories of students	Forms
Hearing impairment	- in printed form; - in the form of an electronic document;
Visually impaired	- in printed form in enlarged font; - in the form of an electronic document; - in the form of an audio file;
With a violation of the musculoskeletal system	- in printed form; - in the form of an electronic document;

This list can be specified depending on the contingent of students.

**10.5. Fund of assessment tools for intermediate certification of students in the discipline.**

**10.5.1. The list of funds of appraisal means, correlated with the planned results of the development of the educational program.**

For students with disabilities

Categories of students	Types of appraisal tools	Forms of control and assessment of learning outcomes

Hearing impaired	test	predominantly written verification
Visually impaired	interview	predominantly oral check (individually)
With a violation of the musculoskeletal system	solution of distance tests, control questions	organization of control in EIOS DSMU, written verification

Students with disabled persons and persons with disabilities have more time to prepare answers for the test, they are allowed to prepare for the test using distance learning technologies.

10.5.2. Methodological materials defining procedures for assessing knowledge, skills, skills and (or) experience of activities, characterizing the stages of the formation of competencies.

When carrying out the procedure for assessing the learning outcomes of disabled people and people with disabilities, the use of technical means necessary for them in connection with their individual characteristics is envisaged.

The procedure for assessing the learning outcomes of persons with disabilities and persons with disabilities by discipline provides for the provision of information in forms adapted to the limitations of their health and perception of information:

For persons with visual impairments:

- in printed form in enlarged font;
- in the form of an electronic document;
- in the form of an audio file.

For the hearing impaired:

- in printed form;
- in the form of an electronic document.

For persons with musculoskeletal disorders:

- in printed form;
- in the form of an electronic document;
- in the form of an audio file.

This list can be specified depending on the contingent of students.

When carrying out the procedure for assessing the learning outcomes of disabled people and people with disabilities by discipline (module), the following additional requirements are met, depending on the individual characteristics of the students:

1. instruction on the procedure for conducting the assessment procedure is provided in an accessible form (orally, in writing, orally using the services of a sign language interpreter);

2. an accessible form for providing assignments of assessment tools (in printed form, in printed form in an enlarged font, in the form of an electronic document, assignments are read by an assistant, assignments are provided using sign language translation);

3. an accessible form of providing answers to tasks (in writing on paper, typing answers on a computer, using the services of an assistant, orally).

If necessary, for students with disabilities and the disabled, the procedure for assessing learning outcomes in a discipline (module) can be carried out in several stages.

The procedure for assessing the learning outcomes of persons with disabilities and persons with disabilities is allowed using distance learning technologies.

## **10.6. The list of basic and additional educational literature necessary for mastering the discipline.**



For the development of the discipline by disabled people and persons with disabilities, basic and additional educational literature is provided in the form of an electronic document in the library fund and / or in electronic library systems. And also free special textbooks and teaching aids, other educational literature and special technical training aids for collective and individual use, as well as the services of sign language interpreters and tiflo-sign language interpreters are provided.

### **10.7. Methodical instructions for students on mastering the discipline**

Individual work is of great importance in mastering the discipline by disabled people and persons with disabilities. Individual work means two forms of interaction with the teacher: individual educational work (consultation), i.e. additional explanation of the educational material and in-depth study of the material with those students who are interested in this, and individual educational work. Individual counseling on a subject is an important factor in promoting individualization of teaching and the establishment of educational contact between a teacher and a student with a disability or student with a disability.

### **10.8. Description of the material and technical base necessary for the implementation of the educational process in the discipline**

The development of discipline by disabled people and persons with disabilities is carried out using general and special-purpose teaching aids:

- lecture hall - multimedia equipment, mobile radio class (for students with hearing impairments); power supplies for individual technical equipment;
- classroom for practical classes (seminars) multimedia equipment, mobile radio class (for students with hearing impairments);
- classroom for independent work - standard workplaces with personal computers; a workstation with a personal computer, with a screen reader, a screen magnifier and a braille display for students with visual impairments.

In each classroom where disabled people and persons with disabilities are trained, there must be an appropriate number of places for students, taking into account the limitations of their health.

## **XI. CHANGE SHEET**

List of additions and changes made to the work program of the discipline	WP updated at a meeting of the department		
	Date	The number of the minutes of the meeting of the department	Signature of the head of the department
<p>The following changes are made to the work program:</p> <ol style="list-style-type: none"> <li>1. Evaluation tools for ongoing monitoring of progress.</li> <li>2. Practical skills (model, phantom).</li> <li>3. Medical history.</li> <li>4. The form of the examination card.</li> <li>6. Material and technical support of discipline.</li> <li>7. Use of innovative (active and interactive) teaching methods.</li> </ol>	« 27 » _06_2022г.	Approved at a meeting of the department, minutes of No. 9	