


ОҢТҮСТІК ҚАЗАҚСТАН <b>MEDISINA</b> <b>АКАДЕМИАСЫ</b> «Оңтүстік Қазақстан медицина академиясы» АҚ	 <b>SKMA</b> -1979-	SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казakhstanская медицинская академия»
Department of surgery - 1	044 – 44 / ( )	
Basics of surgery diseases	1 p. of 20	

## Syllabus

“Surgery-1” Department

Working curriculum of the discipline: “Fundamentals of surgical diseases”

Educational program: 6B10101 “General Medicine”

<b>1. General information about the Course</b>			
1.1	Course Code: BSD 4308	1.6	Academic year:2023-2024
1.2	Course name: General medicine	1.7	Year:4
1.3	Prerequisites: Anatomy, physiology, pathanatomy, pathophysiology, pharmacology, microbiology.	1.8	Term:8
1.4	Post-requisites: internship	1.9	Number of credits (ECTS): 5
1.5	Cycle: SD	1.10	Component: CC
<b>2. Course description</b>			
Etiology, pathogenesis, diagnosis, principles of treatment and prevention of acute surgical pathologies in primary care and hospitals. Acute surgical pathologies of the abdominal cavity. Strangulated hernias. Abdominal injuries. Diseases of the rectum. Diseases of the lungs and pleura. Diseases of the veins of the extremities. Occlusive arterial diseases. Health activities and rehabilitation. Documenting the processes of providing medical services.			
<b>3. Summative assessment form*</b>			
3.1	Testing ✓	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral	3.7	Project
3.4	OSPE / OSCE or Practical Skills Acceptance ✓	3.8	Other (specify)
<b>4. Discipline objectives</b>			
Formation of theoretical knowledge on the basics of surgical diseases and their application in practice, teaching skills in diagnosis, differential diagnosis, treatment and prevention of surgical complications.			
<b>5. Learning outcomes (Course learning outcomes)</b>			
CLO1	Provides patient-centered care in the areas of biomedical, clinical, epidemiological and social-behavioral sciences for the most common diseases.		
CLO2	Carries out its activities within the framework of the legislation of the Republic of Kazakhstan in the field of healthcare, and is guided by them in its practical activities to ensure optimal medical care.		
CLO3	Complies with the rules of ethics, deontology and subordination, demonstrates interpersonal and communication skills leading to the effective exchange of information and cooperation with patients, families and health care providers.		
CLO4	Conducts effective measures aimed at diagnosing, treating, and preventing common and early forms of diseases.		
CLO5	Performs professional duties, organizes self-control and continuous improvement of its activities.		
CLO6	Supports continuous personal and professional growth and continually improves the quality of health care through self-assessment and lifelong learning.		
CLO7	Applies scientific principles, methods and knowledge to medical practice and research. Capable of continuous self-education and development. Introduces new methods into clinical practice.		

CLO8	Complies with the standards for the protection of public health, the sanitary and hygienic regime of the health care organization and the epidemiological safety of the environment, labor safety standards in the health care organization.					
CLO9	Conducts diagnostics and provides qualified and emergency medical care in emergency and life-threatening conditions					
CLO10	Works in the electronic databases of the healthcare system of the Republic of Kazakhstan, ensures documentation of the processes of providing medical services					
CLO11	Organizes medical and social assistance, carries out preventive and health measures among the population.					
5.1	CLO disciplines	The learning outcomes of the EP with which the CLO disciplines are associated				
	CLO 1	CLO 3 Complies with the rules of ethics, deontology and subordination, demonstrates interpersonal and communication skills leading to the effective exchange of information and cooperation with patients, families and medical professionals.				
	CLO 2, CLO 3	CLO 4 Conducts effective measures aimed at diagnosing, treating, and preventing common and early forms of diseases.				
	CLO 4	CLO 9 Conducts diagnostics, provides qualified and emergency medical care in emergency and life-threatening conditions				
	CLO 5	CLO 10 Works in the electronic databases of the healthcare system of the Republic of Kazakhstan, ensures documentation of the processes of providing medical services				
		CLO 11 Organizes medical and social assistance, carries out preventive and health measures among the population.				
<b>6.</b>	<b>Detailed information about the discipline</b>					
6.1	Venue (building, auditorium): Regional Clinical Hospital, Maily Kozha –4, Auditorium No. 1; City Clinical Hospital No. 1, auditorium No. 1-2; Railway hospital, auditorium No. 1; No. 2; No. 3; No. 4					
6.2	Number of hours					
		Lectures	Prac. lessons	Lab.lessons	SIW	SIWT
		15	35	-	30	55
<b>7.</b>	<b>Information about teachers</b>					
<b>№</b>	<b>Full name</b>	<b>Degrees and position</b>	<b>Email address</b>	<b>Scientific interests, etc.</b>	<b>Achievements</b>	
1.	Nurbaba Ruslan Kopzhanvich	assistant	r_orxangel@mail.ru	General surgery	more than 5 scientific articles	
2.	Zhumakhanov Kanat Kuanyshuly	assistant	kanat.zhumakhanov@mail.ru	General surgery	more than 4 scientific articles	
3.	Adyrbek Ramazan	assistant	r.adirbek@mail.ru	General surgery	more than 5 scientific articles	
4.	Sultanov Kasymkhan	assistant	Kasymkhan93@mail.ru	General surgery	more than 5 scientific articles	
5.	Kadyrbekova Diyara	assistant	Ddiyara@mail.ru	General surgery	more than 3 scientific articles	
6.	Ryskulbekov Elzhan	assistant	R.elzhan@mail.ru	General surgery	more than 2 scientific articles	



**8. Thematic plan**

Week/Day	Topic name	Summary	Course learning outcomes	Number of hours	Forms / methods / learning technologies	Forms / assessment methods
1	Lecture. Acute surgical pathologies of the abdominal cavity. Acute appendicitis	Etiology, pathogenesis, classification. Clinics, diagnostics. Differential diagnosis. Treatment.	CLO 1	1	Overview	Feedback
	Practical lesson. Acute surgical pathologies of the abdominal cavity. Acute appendicitis	Identification of general and main symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the subject of classes, Discussion of the topic of the lesson, standardized patient	Checklist for oral questioning, demonstration of practical skills and situational tasks
	SIWT. Acute surgical pathologies of the abdominal cavity. Acute appendicitis.	Tactics of treatment. Indications, contraindications to appendectomy. Operating access. Types of anesthesia, indications for drainage and tampony of the abdominal cavity. Complications of acute appendicitis.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of an abstract, presentation of a topic	Checklist for presentation of a topic, abstract
2	Lecture. Disease of the hepatobiliary zone GSD. Cholecystitis.	Etiology, pathogenesis. Classification. Clinical manifestation. Diagnostics. Treatment.	CLO 1	1	Overview	Blitz survey on the topic
	Practical lesson. GSD. Cholecystitis.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Oral questioning, mastering practical skills.	Checklist for oral questioning, demonstration of practical skills
	SIWT. SIW. Treatment of acute cholecystitis: conservative and surgical. Litholysis, litho-trypsia. Indications for surgical treatment. Methods of operation. PCES	Treatment of acute cholecystitis: conservative and surgical. Litholysis, litho-trypsia. Indications for surgical treatment. Methods of operation. PCES	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of topic, abstract
3	Lecture. Hepatobiliary disease GSD. Acute pancreatitis.	Etiology, pathogenesis. Classification. Clinical manifestation. Diagnostics. Treatment.	CLO 1	1	Overview	Feedback



	Practical lesson. GSD. Acute pancreatitis.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of theme of lesson, curacy of patients..	Checklist for oral questioning, demonstration of practical skills and situational tasks
	SIWT. Topic and task. Treatment of acute pancreatitis: conservative and surgical. Litolysis, lithotripsy. Indications for surgical treatment. Methods of operation. PCES.	Treatment of acute pancreatitis: conservative and surgical. Litolysis, lithotripsy. Indications for surgical treatment. Methods of operation. PCES.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of a topic, abstract
4	Lecture. Peptic ulcer of the stomach and duodenum.	Etiology, pathogenesis. Clinical manifestations. Diagnostic Methods Treatment.	CLO 1	1	Overview	Feedback
	Practical lesson. Peptic ulcer of the stomach and duodenum.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the topic of the lesson, oral questioning, acquisition of practical skills.	Checklist for oral questioning, demonstration of practical skills and situational tasks
	SIWT. Methods of conservative therapy are gastric ulcer and duodenal ulcer, indications for hospitalization.	Methods of conservative therapy are gastric ulcer and duodenal ulcer, indications for hospitalization. Complications Indications for the operation and the choice of the volume of the operation.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of a topic, abstract
5	Lecture. External hernia of the abdomen.	Etiology, pathogenesis. Classification. General symptoms of hernias. Diagnostics. Treatment	CLO 1	1	Overview	Blitz survey on the topic
	Practical lesson. External hernia of the abdomen.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the topic of the lesson, solving situational problems.	Checklist for oral questioning.

	SIWT. External hernia of the abdomen.	Types of plastic hernia gates. Features of preparation of patients for surgery and postoperative management. Complications of hernias. Strangulated hernia.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of a topic, abstract
6	Lecture. Acute intestinal obstruction.	Etiology, pathogenesis, classification. Clinic, diagnostics. Differential diagnosis. Treatment.	CLO 1	2	Overview	Feedback
	Practical lesson. Acute intestinal obstruction.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the topic of the lesson, solution of the test task, discussion of the clinical case.	Checklist for oral questioning, demonstration of practical skills and situational tasks
	Topic and task. Features of the preoperative period and postoperative management of patients with acute intestinal obstruction.	Features of the preoperative period and postoperative management of patients with acute intestinal obstruction. Principles of conservative treatment and indications for surgical treatment	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3/3	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of a topic, abstract
	<b>Midterm examination №1</b>	<b>In writing, control over the acquisition of practical skills</b>	<b>Completing written assignments, taking practical skills</b>			
7	Lecture. Peritonitis.	Etiology, pathogenesis, classification. Clinic, diagnostics. Treatment.	CLO 1	1	Overview	Feedback
	Practical lesson. Peritonitis.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Work in small groups, TBL	TBL checklist
	SIWT. Topic and task. Peritonitis.	Features of postoperative management of patients and previous stages of surgery. Indications for treatment and principles of conservative treatment.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3/3	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of a topic, abstract



8	Lecture. Diseases of the rectum. Haemorrhoids.	Etiology, pathogenesis, classification. Clinic, diagnostics. Differential diagnosis. Treatment.	CLO 1	1	Overview	Feedback
	Practical lesson. Diseases of the rectum. Haemorrhoids.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the topic of the lesson, oral questioning, acquisition of practical skills.	Checklist for oral questioning, demonstration of practical skills and situational tasks
	SIWT. Diseases of the rectum. Haemorrhoids.	Methods of conservative therapy are gastric ulcer and duodenal ulcer, indications for hospitalization. Complications Indications for the operation and the choice of the volume of the operation	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3/3	Preparation and defense of the abstract, presentation of the topic, compilation of a glossary.	Checklist for presentation of a topic, abstract
9	Lecture. Diseases of the lungs and pleura. Abscess and gangrene of the lung. Spontaneous pneumothorax. Acute purulent pleurisy. Pyopneumothorax. Chronic pleural empyema. Bronchiectasis.	Etiology, pathogenesis. Classification. Clinic. Diagnostics Treatment.	CLO 1	2	Overview	Feedback
	Practical lesson. Diseases of the lungs and pleura. Abscess and gangrene of the lung. Spontaneous pneumothorax. Acute purulent pleurisy. Pyopneumothorax. Chronic pleural empyema. Bronchiectasis.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the topic of the lesson, solution of the test task, discussion of the clinical case.	Checklist for oral questioning, testing, control, acquisition of practical skills



	SIWT. Diseases of the lungs and pleura. Abscess and gangrene of the lung. Spontaneous pneumothorax. Acute purulent pleurisy. Pyopneumothorax. Chronic pleural empyema. Bronchiectasis.	Treatment of diseases of the lungs and pleura: conservative, surgical.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3/3	Preparation and defense of the abstract, presentation of the topic.	Checklist for presentation of a topic, abstract
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10	Lecture. Vascular surgery. Varicose veins.	Etiology, pathogenesis. International classification. Clinical manifestation Diagnostics. Methods for determining vein patency. Assessment of the state of the valvular apparatus and communicative veins. Treatment.	CLO 1	1	Overview	Feedback
	Practical lesson. Vascular surgery. Varicose veins.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the lesson topic, solution of a test task, discussion of a clinical case	Checklist for oral questioning, testing, control, acquisition of practical skills
	SIWT. Vascular surgery. Varicose veins.	Principles of treatment for varicose veins of the lower extremities, Occlusive arterial diseases: conservative, surgical, sclerosing therapy. Indications for reconstructive and restorative operations. Indications for limb amputation.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic.	Checklist for oral questioning, testing, control, acquisition of practical skills
11	Lecture. Vascular surgery. Occlusive arterial diseases. Atherosclerotic lesions of the arteries.	Etiology, pathogenesis. Clinic. Diagnostics. Methods for determining the patency of veins and arteries. Assessment of the condition of the valve apparatus and communicating veins. Treatment.	CLO 1	1	Overview	Checklist for presentation of a topic, abstract
	Practical lesson. Diseases and damage to the esophagus.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the lesson topic, oral questioning, assimilation practical skills.	Checklist for oral questioning, demonstration of practical skills



		activities and rehabilitation. Documenting the processes of providing medical services.				
	SIWT. Vascular surgery. Occlusive arterial diseases. Atherosclerotic lesions of the arteries.	Principles of treatment for varicose veins of the lower extremities, Occlusive arterial diseases: conservative, surgical, sclerosing therapy. Indications for reconstructive and restorative operations. Indications for limb amputation.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic, drafting crossword	Checklist for presentation of a topic, abstract
12	Lecture. Diseases and injuries of the esophagus..	Etiology, pathogenesis. Classification of esophageal diseases. Diagnostics. Achalasia cardia. Esophageal diverticula. Chemical and thermal burns, cicatricial narrowing of the esophagus. Treatment.	CLO 1	1	Overview	Feedback
	Practical lesson. Diseases and damage to the esophagus.	Identification of common and basic symptoms and syndromes. Analysis of laboratory and instrumental data with conclusion. Health activities and rehabilitation. Documenting the processes of providing medical services.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	3	Discussion of the lesson topic, oral questioning, assimilation practical skills.	Check list oral survey, demonstration of practical skills
	SIWT. Diseases and damage to the esophagus.	Treatment of diseases and injuries of the esophagus: conservative, surgical.	CLO 1 CLO 2 CLO 3 CLO 4 CLO 5	2/5	Preparation and defense of the abstract, presentation of the topic.	Topic presentation checklist, abstract
	Midterm examination №2			2/3	Tests, In writing	

**9. Training and Teaching Methods**

9.1	Lectures	Overview
9.2	Practical lessons	Discussion of the topic of the lesson, standardized patient (SP), curation of patients
9.3	SIW / SIWT	Work in the dressing room, Curation, Protection of the medical history of the supervised patient, Protection of the presentation. Work with educational - scientific literature.
9.4	Mid-term examination	Testing. Practical Skill

**10.2 Criteria for assessing the learning outcomes of the discipline**

**Checklist for practical training**

	Form of control	Evaluation	Evaluation criteria
1	Oral survey:	Excellent Corresponds to rating: A (4,0; 95-100%); A- (3,67; 90-94%)	This is given if the teacher did not make any mistakes or inaccuracies during the answer. Focuses on theories, concepts and trends in the discipline being studied and gives them a critical assessment, uses scientific achievements of other disciplines.





		<p>Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>It is given if the teacher did not make gross mistakes during the answer, made unprincipled inaccuracies or fundamental errors corrected by the student himself, and managed to systematize the program material with the help of the teacher.</p>
		<p>Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>This is given if the teacher made inaccuracies and unprincipled mistakes while answering, limited himself only to educational literature indicated by the teacher, and experienced great difficulties in systematizing the material.</p>
		<p>Unsatisfactory Corresponds to rating: F<sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)</p>	<p>This is given if the teacher made fundamental mistakes during the answer and did not study the basic literature on the topic of the lesson; does not know how to use the scientific terminology of the discipline, answers with gross stylistic and logical errors.</p>
2	<b>Doing practical work:</b>	<p>Excellent Corresponds to rating: A (4,0; 95-100%); A- (3,67; 90-94%)</p>	<p>This is given if the teacher did not make any mistakes or inaccuracies during the answer. Focuses on theories, concepts and trends in the discipline being studied and gives them a critical assessment, uses scientific achievements of other disciplines.</p>
		<p>Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>It is given if the teacher did not make gross mistakes during the answer, made unprincipled inaccuracies or fundamental errors corrected by the student himself, and managed to systematize the program material with the help of the teacher.</p>
		<p>Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>This is given if the teacher made inaccuracies and unprincipled mistakes while answering, limited himself only to educational literature indicated by the teacher, and experienced great difficulties in systematizing the material.</p>
		<p>Unsatisfactory Corresponds to rating: F<sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)</p>	<p>This is given if the teacher made fundamental mistakes during the answer and did not study the basic literature on the topic of the lesson; does not know how to use the scientific terminology of the discipline, answers with gross stylistic and logical errors.</p>
3	<b>Solving educational situational problems</b>	<p>Excellent Corresponds to rating: A (4,0; 95-100%); A- (3,67; 90-94%)</p>	<p>He actively participated in the work, showed original thinking, showed deep knowledge of the material, and used scientific achievements of other disciplines in the discussion.</p>
		<p>Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>Actively participated in the work, demonstrated knowledge of the material, made unprincipled inaccuracies or fundamental errors, which were corrected by the student himself.</p>
		<p>Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>During his work he was passive, made inaccuracies and unprincipled mistakes, and experienced great difficulties in systematizing the material.</p>



		<p>Unsatisfactory Corresponds to rating: F<sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)</p>	<p>Did not take part in the work; when answering the teacher’s questions, he made fundamental errors and inaccuracies, and did not use scientific terminology when answering.</p>
4	TBL:	<p>Excellent Corresponds to rating: A (4,0; 95-100%) A- (3,67; 90-94%)</p>	<p>This is given if the teacher scores 90-100 points, which includes the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% Extra points - 5% *Testing is assessed according to the “testing” assessment criteria. The task is assessed according to the “situational problem solving (SBL)” assessment criteria. In the event of an appeal, points (5%) may be added to the group testing score. At the discretion of the teacher, additional points (5%) may be added for teamwork.</p>
		<p>Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>This is given if the teacher scores 70-89 points, which includes the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% - Extra points -5% *Testing is assessed according to the “testing” assessment criteria. The task is assessed according to the “situational problem solving (SBL)” assessment criteria. In the event of an appeal, points (5%) may be added to the group testing score. May be added at the discretion of the teacher extra points for teamwork (5%).</p>
		<p>Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>This is given if the teacher scores 50-69 points, which includes the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% - Extra points -5% *Testing is assessed according to the “testing” assessment criteria. The task is assessed according to the “situational problem solving (SBL)” assessment criteria. In the event of an appeal, points (5%) may be added to the group testing score. At the discretion of the teacher, additional points (5%) may be added for teamwork.</p>
		<p>Unsatisfactory Corresponds to rating: F<sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)</p>	<p>This is given if the teacher scores 0-49 points, which includes the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% - Extra points -5% *Testing is assessed according to the “testing”</p>



			assessment criteria. The task is assessed according to the “situational problem solving (SBL)” assessment criteria. In the event of an appeal, points (5%) may be added to the group testing score. At the discretion of the teacher, additional points (5%) may be added for teamwork.
5	<b>Testing:</b>	Excellent Corresponds to rating: A (4,0; 95-100%) A- (3,67; 90-94%)	90-100% correct answers.
		Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	75-89% correct answers.
		Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	50-74% correct answers.
		Unsatisfactory Corresponds to rating: F <sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)	Less than 50% correct answers.

**Checklists for SIW/SIWT**

6	<b>Preparation of an abstract defense:</b>	Excellent Corresponds to rating: A (4,0; 95-100%) A- (3,67; 90-94%)	The abstract is completed carefully and submitted on time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. Diagrams, tables and figures corresponding to the topic of the abstract are provided. When defending an abstract, the text is not read, but narrated. Confidently and accurately answers all questions asked.
		Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The abstract is completed carefully and submitted on time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. Diagrams, tables and figures corresponding to the topic of the abstract are provided. When defending an abstract, the text is not read, but narrated. When answering questions, he makes unprincipled mistakes.
		Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The abstract is completed carefully and submitted on time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. When defending an abstract, the text is read. Answers questions uncertainly and makes fundamental mistakes.
		Unsatisfactory Corresponds to rating: F <sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)	The abstract was executed sloppily and was not submitted on time, written independently on less than 10 pages of typewritten text, using less than 5 literary sources. When defending an abstract, the text is read. When answering questions, he makes gross mistakes and does not understand the material.



7	<b>Presentation of the topic:</b>	Excellent Corresponds to rating: A (4,0; 95-100%) A- (3,67; 90-94%)	The presentation was completed independently, on time, with a volume of at least 20 slides. At least 5 literary sources were used. The slides are informative and concise. When defending, the author demonstrates deep knowledge of the topic. Does not make mistakes when answering questions during discussion.
		Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The presentation was completed independently, on time, with a volume of at least 20 slides. At least 5 literary sources were used. The slides are informative and concise. When defending, the author demonstrates good knowledge of the topic. Makes unprincipled mistakes when answering questions, which he corrects himself.
		Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The presentation was completed independently, on time, with a volume of at least 20 slides. At least 5 literary sources were used. The slides are not meaningful. During the defense, the author makes fundamental mistakes when answering questions.
		Unsatisfactory Corresponds to rating: F <sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)	The presentation was not submitted on time, the volume is less than 20 slides. Less than 5 literary sources were used. The slides are not meaningful. During the defense, the author makes gross mistakes when answering questions. Doesn't know his own material.
8	<b>Compiling a glossary:</b>	Excellent Corresponds to rating: A (4,0; 95-100%) A- (3,67; 90-94%)	The glossary is made in full volume of the dictionary, designed, and correctly reflects the main terms and concepts. There is a comparative interpretation of the terms. Delivered on time. The teacher confidently and accurately answers all questions asked.
		Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The glossary is made in full volume of the dictionary, designed, and correctly reflects the main terms and concepts. There is a comparative interpretation of the terms. Delivered on time. The teacher makes unprincipled mistakes when answering questions.
		Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The glossary is made in full volume of the dictionary, formatted and correctly reflects basic terms and concepts. Delivered on time. During the defense, the student answers questions uncertainly and makes fundamental mistakes.
		Unsatisfactory Corresponds to rating: F <sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)	The glossary was not completed in full, was sloppy, and was not submitted on time. When answering questions, the teacher makes gross mistakes and does not understand the material.
9	<b>Making a crossword:</b>	Excellent Corresponds to rating: A (4,0; 95-100%) A- (3,67; 90-94%)	The crossword puzzle is made up of 7 or more words, the words are joined more than 3 times, there are no errors in the crossword puzzle questions, the questions are composed correctly, logically and predetermine the required answer, the design meets the requirements.
		Good	The crossword puzzle is made up of 7 words, the



	Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	words are joined 3 times, there are no fundamental errors in the crossword puzzle questions, the questions are written correctly, but there are minor inaccuracies, the design meets the requirements.
	Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The crossword puzzle is made up of 7 words, the words are joined 2 times, there are inaccuracies and errors in the crossword puzzle questions.
	Unsatisfactory Corresponds to rating: F <sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)	The crossword puzzle is made up of less than 7 words, the words are joined less than 2 times (or not joined), there are fundamental, gross errors in the crossword questions.

**Checklist for evaluating project work**

	Criteria	Description	Points
1	Determination of the problem situation and relevance of the study	The problems are clearly formulated, scientifically based and integrated. The relevance of the research topic is argued.	15-20
		The problems are formulated and justified.	10-14
		The relevance of the research topic is argued.	5-9
		The problems are partially formulated and not substantiated. The relevance of the research topic is partially substantiated.	0-4
2	Постановка цели проекта и определение задач для ее достижения	The goal is formulated clearly and concisely. The objectives of the study are fully consistent with the purpose.	15-20
		The goal is formulated, but described in too much detail. The research objectives correspond to the purpose.	10-14
		The goal is formulated vaguely. The research objectives partially correspond to the purpose.	5-9
		The goal is vague or unstated. The research objectives do not correspond to the purpose.	0-4
3	Selection and use of literature	The most relevant publications/research published in full-text databases, data, and authoritative publications are indicated. Links are listed in the text sequentially with numbers.	15-20
		Publications/research published in full-text databases and data from a limited number of sources are indicated. References in the text are listed sequentially with numbers.	10-14
		Similar publications/research published in the public domain on the Internet are indicated. Full-text databases and authoritative publications are practically not used. Most of the sources are not related to the topic of the project. No references are provided in the text.	5-9
		Full-text databases and authoritative publications are practically not used. Most of sources are not related to the topic of the project. No references are provided in the text.	0-4
4	Timely presentation of intermediate	Interim results of the project are presented on time.	15-20
		Interim results of the project are presented on time.	10-14



	results	The interim results of the project were not presented on time.	5-9
		The interim results of the project were not presented on time.	0-4
5	Personal involvement, creative approach to work	According to the intermediate results, there is a collective creative approach to solving problems, an even distribution of functions and coordinated work	15-20
		According to the intermediate results, there is an even distribution of functions in the team, coordinated work	10-14
		According to the intermediate results, there is an uneven distribution of functions in the team, coordinated work	5-9
		According to the intermediate results, there is a formal attitude of the participants to the work performed, there is no collective interaction	0-4
<b>Final assessment of project work</b>			<b>Max 100</b>
1	Depth of disclosure of the project topic	The topic of the project is fully disclosed, and the defense demonstrates deep knowledge that goes beyond the scope of the program being studied. Research methods are described and ways to achieve goals are justified. Scientific terms are used and they are used freely. Modern research methods are used.	15-20
		The topic of the project is revealed, and during the defense, residual knowledge within the framework of the program being studied is demonstrated. Research methods are described and ways to achieve goals are justified. Scientific terms are not used enough. The text is presented in a logical sequence.	10-14
		The topic of the project is partially disclosed. The project description is not complete. No scientific terms are used. The text is presented chaotically.	5-9
		The topic of the project has not been disclosed. The project description is not complete. No scientific terms are used. The text is presented chaotically.	0-4
2	Objectivity and reliability of the results obtained, their practical significance	The results fully reflect the research, are objective and reliable. Tables, figures, and formulas are provided. The applicability of the results is indicated research, target consumers of the results.	15-20
		The results fully reflect the research, are objective and reliable. Tables, figures, and formulas are provided. The applicability of the research results and the target consumers of the results are not indicated	10-14
		The results partly reflect research objective, reliable. Tables, figures, formulas are given in insufficient quantities.	5-9
		The results do not reflect the research, are not objective, not reliable. Tables, figures, and formulas are not provided or are not provided sufficiently.	0-4
3	Formulation of conclusions	The conclusions are correctly formulated, well-reasoned and fully reflect the research results.	15-20
		The conclusions are formulated correctly, well-reasoned, but partially reflect the results of the research.	10-14



		The conclusions are not fully formulated, are not sufficiently reasoned and partially reflect the results of the research.	5-9
		The conclusions are formulated incorrectly, are not substantiated and partially reflect or do not reflect the results of the research.	0-4
4	Achieving the project goal and solving assigned tasks	The project goal has been achieved. All assigned tasks have been completely resolved.	15-20
		The goal of the project as a whole has been achieved. The assigned tasks have not been fully resolved.	10-14
		The project goal was partially achieved. Not all assigned tasks have been solved.	5-9
		The project goal has not been achieved. The assigned tasks were partially solved or not solved.	0-4
5	Compliance of the design of the project with the requirements and protection of the project	All sections are reflected and disclosed in the project. The text is presented in a logical sequence, concisely, and competently. The technical requirements for the design of the project are met. The presentation is clear. When defending, the speaker demonstrates professional awareness and artistry.	15-20
		All sections are reflected and disclosed in the project. The text is presented in a logical sequence. There are minor grammatical and stylistic errors. The technical requirements for the design of the project are not fully met. The presentation is not very clear. When defending, the speaker demonstrates professional awareness and artistry.	10-14
		The project reflects all sections. The logical sequence of presentation of the material is not always observed. There are grammatical and stylistic errors. The technical requirements for the design of the project are not met. The presentation is not very clear. When defending, the speaker does not demonstrate deep knowledge of the topic and is constrained.	5-9
		Not all sections are reflected in the project. The logical sequence of presentation of the material is not observed. There are grammatical and stylistic errors. The technical requirements for the design of the project are not met. The presentation is not very clear. During the defense, the speaker does not demonstrate deep knowledge of the topic, finds it difficult to answer questions, and is constrained.	0-4

**Intermediate certification**

**Midterm control**

Control form	Assessment	Assessment criteria
Checklists for written assignments	Excellent Corresponds to rating: A (4,0; 95-100%); A- (3,67; 90-94%)	Gives complete and comprehensive answers to questions on the topic. Comprehensive knowledge of the topic of the lesson from primary and secondary sources. Stylistically competent presentation of the topic of the lesson. Correct patient reporting.
	Good Corresponds to rating:	Good knowledge of the topic of the lesson. Questions on the topic, diagnosis and treatment



	<p>B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	tactics are not fully answered, but rather the correct report of the patient.
	<p>Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>Insufficient knowledge of the topic; answers questions on the topic with errors. Incomplete coverage of diagnosis and treatment tactics. Incomplete patient reporting, incomplete treatment regimen</p>
	<p>Unsatisfactory Corresponds to rating: F<sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)</p>	<p>Poor knowledge of the topic of the lesson. Gives the wrong answer to questions on the topic. Incorrect diagnosis and treatment tactics.</p>
<b>Demonstration of Practical Skills</b>	<p>Excellent Corresponds to rating: A (4,0; 95-100%); A- (3,67; 90-94%)</p>	<p>Excellent ability to navigate questioning and examining patients. Correctly and accurately selects questions when collecting anamnesis. Accurately carry out a basic physical examination: general examination, palpation, percussion, auscultation, measurement of blood pressure, determination of pulse characteristics. Accurately evaluates examination results. When preparing for the lesson, I used additional literature. Systematizes material on this topic. Communicates effectively in medical practice, imparts objective information, knows and uses the norms of ethics and deontology when performing the skill;</p>
	<p>Good Corresponds to rating: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>He is well oriented when questioning and examining patients, he made unprincipled inaccuracies or fundamental errors, which were corrected by the student himself. Accurately carry out a basic physical examination: general examination, palpation, percussion, auscultation, measurement of blood pressure, determination of pulse characteristics. Unable to correctly interpret examination results. Does not accurately convey appropriate information;</p>
	<p>Satisfactorily Corresponds to rating: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>Focuses on questioning and examining patients. There are errors during physical examination (palpation, percussion, auscultation and general examination) showed incomplete mastery of the material on a given topic, while making fundamental errors. There are errors in assessing the survey results. Low level of communication in medical practice; subjectively conveys appropriate information;</p>
	<p>Unsatisfactory Corresponds to rating: F<sub>x</sub> (0,5; 25-49%) F (0; 0-24 %)</p>	<p>Unable to carry out practical skills and interpret their results. Did not take part in the work of the group. Unable to communicate in medical practice; does not convey the proper information, does not know and is not able to use the norms of</p>





ethics and deontology when performing the skill. When answering the teacher’s questions, gross mistakes are made without using specific terminology when answering.


**Multi-point knowledge assessment system**

Letter grade	Numeric equivalent of points	Percentage	Traditional assessment
A	4,0	95-100	Excellent
A -	3,67	90-94	
B +	3,33	85-89	Good
B	3,0	80-84	
B -	2,67	75-79	
C +	2,33	70-74	Satisfactorily
C	2,0	65-69	
C -	1,67	60-64	
D+	1,33	55-59	
D-	1,0	50-54	
FX	0,5	25-49	Unsatisfactory

**11. Learning Resources**

<p>Electronic resources, including but not limited to: databases, animation simulators, professional blogs, websites, other electronic reference materials (e.g. video, audio, digests)</p>	<ol style="list-style-type: none"> <li>Gostishchev, V. K. General surgery [Электронный ресурс] : the manual / V. K. Gostishchev. – Электрон. Текстовые дан. ( 65.0Мб). – М. : ГЭОТАР – Медиа, 2017. – эл. Опт. Диск (CD-ROM).</li> <li>Гостищев, В. К. Жалпы хирургия [Электронный ресурс] : оқулық / В. К. Гостищев ; қазақ тіл. Ауд. Д. А. Смаилов. – Электрон. Текстовые дан. (141Мб). – М. : ГЭОТАР – Медиа, 2014. – 752 б. с.</li> <li>Хирургиялық аурулар [Электронный ресурс] : оқулық / А. Ж. Нұрмақов, А. Н. Баймаханов. – Электрон. Текстовые дан. (59.9Мб). – М. : «Литтерра», 2017. – 256 бет с.</li> <li>Жалпы хирургияның кейбір сұрақтары. Садықанов У.С., Аубакирова Д.Н., Махметова Ж.С., Есембаева Л.К. , 2016 <a href="https://aknurpress.kz/login/">https://aknurpress.kz/login/</a></li> <li>Жалпы хирургияға арналған дәрістер. Қаныбеков А., Баймұхамбетов Ж.Ж. , 2017/<a href="https://aknurpress.kz/login">https://aknurpress.kz/login</a></li> <li>Жалпы хирургия. Дұрманов Қ.Д. , 2017/<a href="https://aknurpress.kz/login">https://aknurpress.kz/login</a></li> <li>Хирургиялық аурулар: Оқулық: 2-томдық. 2-том. / Ред. Басқарған М.И. Кузин; Қазақ тіліне аударған оқулықтың жалпы ред басқарған А.Н. Баймаханова. – М.: ГЭОТАР-Медиа, 2018. – 528б. –<a href="http://rmebrk.kz/">http://rmebrk.kz/</a></li> <li>Хирургиялық аурулар: Оқулық: 2-томдық. 1-том. / Ред. Басқарған М.И. Кузин; Қазақ тіліне аударған оқулықтың жалпы ред басқарған А.Н. Баймаханова. – М.: ГЭОТАР-Медиа, 2018. – 560б. <a href="http://rmebrk.kz/">http://rmebrk.kz/</a></li> <li>Гостищев, В. К. Жалпы хирургия [Электрондық ресурс] : оқулық / В. К. Гостищев ; қазақ тіліне ауд. Д. А. Смаилов ; жауапты ред. М. Ө. Мұқанов. – М. : ГЭОТАР-Медиа, 2014. – 741, [8] с. <a href="http://elib.kaznu.kz/">http://elib.kaznu.kz/</a></li> <li>Гостищев, В. К. Жалпы хирургия [Электрондық ресурс] : оқулық / В. К. Гостищев ; қазақ тіліне ауд. Д. А. Смаилов ; жауапты ред. М. Ө. Мұқанов. – М.</li> </ol>
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<b>Electronic textbooks</b>	
Literature	<p><b>Main</b></p> <ol style="list-style-type: none"> <li>Хирургиялық аурулар : оқулық / қазақ тіл. ауд. С. О. Сабербеков ; ред. А. Ф. Черноусов. - М. : ГЭОТАР - Медиа, 2018. - 576 б. +эл. опт. диск (CD-ROM).</li> <li>Нұрмақов, А. Ж. Хирургиялық аурулар: оқулық / А. Ж. Нұрмақов, А. Н. Баймаханов. - М. : "Литтерра", 2017. - 256 бет. С</li> </ol>

<p style="text-align: center;">           ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>АКАДЕМИАСЫ</b>            «Оңтүстік Қазақстан медицина академиясы» АҚ         </p>  <p style="text-align: center;">           SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>            АО «Южно-Казakhstanская медицинская академия»         </p>		
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	<p>3. Сексенбаев, Д. С. Острые хирургические заболевания органов брюшной полости : учебное пособие / Д. С. Сексенбаев. - Шымкент : ЮКГФА, 2017. - 246 с.</p> <p>4. Рахметов, Н. Р. Госпиталдық хирургия пәніне арналған практикум : оқу құралы / Н. Р. Рахметов. - Алматы : Эверо, 2013. - 136 бет. с.</p> <p>5. Қалдыбаев, М. А. Ситуациялық тапсырмалар : жалпы хирургия пәніне арналған оқу құралы / М. А. Қалдыбаев ; ҚР денсаулық сақтау министрлігі. - Қарағанды : ЖК "Ақнұр", 2013. - 124 бет. с.</p> <p>6. Нұрахманов, Б. Ж. Жүрек-қан тамыр хирургиясы : оқулық / Б. Ж. Нұрахманов. - Алматы : Эверо, 2012. - 334 бет. с.</p> <p>7. Нурахманов, Б. Д. Клиническая хирургия : учебник / Б. Д. Нурахманов. - ; Рек. к печати Центр. Методич. Советом КазНМУ им. С. Д. Асфендиярова. - Алматы : Эверо, 2012. - 525 с.</p> <p>8. Мәдікенов, Ө. М. Жалпы хирургия : оқу құралы = Общая хирургия : учеб. пособие / Ө. М. Мәдікенов, О. М. Мадыкенов. - Алматы : Эверо, 2012. - 456 бет.</p> <p><b>Additionally:</b></p> <p>1. Қалдыбаев, М. А. Жалпы хирургияның тест сұрақтары: оқу құралы / М. А. Қалдыбаев; ҚР денсаулық сақтау министрлігі. - Қарағанды : ЖК "Ақнұр", 2013. - 370 бет. с.</p> <p>2. Мәдікеноұлы, Ө. Хирургиялық аурулар: оқулық-дәрістер / Ө. Мәдікеноұлы ; ҚР денсаулық сақтау министрлігі; ҚазММА жоғары және ЖОО-нан кейінгі мамандықтар бойынша білім беру оқу-әдістемелік секциясы. - Алматы : Эверо, 2012. - 405 бет</p> <p>3. Кузнецов, Н. А. Уход за хирургическими больными [Текст] : учебник / Н. А. Кузнецов, А. Т. Бронтвейн ; М-во образования и науки РФ. - ; Рек. ГОУ ВПО "Первый Моск. гос. мед. ун-т им. И. М. Сеченова". - М. : ГЭОТАР - Медиа, 2013. - 288 с. : ил</p>	
<b>12.</b>	<b>Discipline policy</b>	
<p>Requirements for students, attendance, behavior, grading policies, penalties, incentives, etc.</p> <ol style="list-style-type: none"> <li>1. During classes, wear special clothing (robe, cap).</li> <li>2. Mandatory attendance at lectures, practical classes and SROPs according to schedules.</li> <li>3. Don't be late, don't miss lectures and classes. In case of illness, provide a certificate and a work sheet indicating the due date, which is valid for 30 days from the date of receipt at the dean's office.</li> <li>4. Missed classes for unexcused reasons are not made up. Students who miss classes for an unexcused reason in the electronic journal next to the mark "n" are given a grade of "0" and penalty points are deducted:           <ul style="list-style-type: none"> <li>- the penalty point for missing 1 lecture is 1.0 points from the midterm control scores;</li> <li>- the penalty point for missing 1 SROP lesson is 2.0 points from the SRO grades.</li> </ul> </li> <li>5. Attendance at SROP classes is mandatory. In the absence of students at the SROP, a mark "n" is made in the educational and electronic journal.</li> <li>6. Each student must complete all forms of SRO assignments and submit them on schedule.</li> <li>7. For each practical lesson and SROP, all students must prepare in a timely and accurate manner and take an active part in discussing the topic.</li> <li>8. Be responsible for the sanitary condition of your workplace and personal hygiene.</li> <li>9. Eating in classrooms is strictly prohibited.</li> <li>10. Follow safety rules when working with simulation dummies</li> <li>11. Comply with the internal rules of the academy and ethical behavior.</li> <li>12. Be tolerant, open and friendly towards fellow students and teachers.</li> <li>13. Treats the property of the department with care.</li> </ol>		
<b>13.</b>	<b>Academic policy based on the moral and ethical values of the academy</b>	
13.1	P. 4 Student Code of Honor	
13.2	<p><b>GRADING POLICY</b></p> <ol style="list-style-type: none"> <li>1. Several forms of knowledge control are used in the lesson. The average grade is given to the journal.</li> <li>2. A student who has not achieved a passing score (50%) on one of the types of controls (current</li> </ol>	



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- control, midterm control No. 1 and/or No. 2) is not allowed to take the exam in the discipline.
3. The final rating for admission to the exam in the discipline must be at least 50 points (60%), which is calculated automatically based on the average score of the current control (40%) + the average score of midterm controls (20%).
4. Final certification – is carried out in two stages: taking practical skills and in the form of testing.

14. Approval and revision

Date of approval by the department	Protocol <u>№20,84</u> 31.05.2023	Full name of the manager, Candidate of Medical Sciences, Acting Associate Professor Zhumagulov K.N.	Signature 
Date of approval for the COP	Protocol <u>№12</u> 05.06.2023	Full name of COP, Doctor of Medical Sciences, Acting Professor Sadykova A.Sh.	Signature 

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**MEDISINA  
AKADEMIASY**

«Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN

**MEDICAL  
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АО «Южно-Казакстанская медицинская академия»

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