

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979-	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department "Surgery-1"		044 – 44 / 11 ()
Working study programme of the discipline "General Surgery"		1 p. of 24

Syllabus
Department "Surgery-1"
Working study programme of the discipline: "General Surgery"
Educational programme: 6B10101 "General Medicine"

1.	General information about the discipline		
1.1	Discipline code: OH 3301	1.6	Academic year 2023-2024
1.2	Name of discipline: General Surgery	1.7	Course: 3
1.3	Prerequisites: Morphology and Physiology	1.8	Semester: 5
1.4	Post-requisites: Fundamentals of Surgical Diseases	1.9	Number of credits (ECTS): 4 credits
1.5	Cycle: PD (professional discipline)	1.10	Component: UC (university component)
2.	Content of the discipline (maximum 50 words)		
<p>"General surgery" is a clinical discipline, during the study of which students receive initial skills on the organisation of preventive measures, knowledge and skills of the surgical service, units of the clinic, hospitals and other medical institutions of inpatient and polyclinic type knows, aseptics and antiseptics, methods of anaesthesia in trauma, traumatic injuries, prevention of traumatism.</p>			
3.	Form of summative evaluation		
3.1	Testing <input checked="" type="checkbox"/>	3.5	Coursework
3.2	Written	3.6	Essay
3.3	Oral	3.7	Project
3.4	OSCE (practical skills reception) <input checked="" type="checkbox"/>	3.8	Other (specify)
4.	Objectives of the discipline		
<p>Formation of knowledge and skills on the basics of surgical pathology, general principles of diagnosis and treatment of major surgical and traumatological diseases in adults.</p>			
5.	Learning Outcomes (LOs of the discipline)		
RO1.	Knows the basic principles of modern asepsis and antisepsis, identifies indications and contraindications to primary surgical wound care, performs primary surgical wound care (PSWC).		
RO2.	Provides first aid in emergency conditions (bleeding, shock, collapse, fainting, open and closed injuries, electric shock, etc.), applies various, hard, soft bandages and transport splint.		
RO3.	Possesses the basics of anaesthesiology and transfusiology, determines blood groups according to the AVO system, Rhesus compatibility, conducts tests for group and individual blood compatibility, performs transfusion of blood and blood substitutes with drawing up protocols of blood transfusion		
RO4.	Applies the basic principles of clinical and instrumental investigations of surgical patients. Knows the principles of drawing up a plan of laboratory and instrumental methods of examination of patients.		
PO5.	Formulates identification of the main signs and syndromes of certain types of chronic and acute purulent diseases of soft tissues, interstitial spaces and cavities.		
RO6.	Communicates effectively in medical practice, taking into account the peculiarities of paediatric and adult surgery, multiculturalism, observing the principles of medical ethics and deontology.		
5.1	LOs of the discipline	OP learning outcomes to which the discipline's LOs are linked	
	LO 1	EO 3 Is able to provide emergency and emergency skilled medical care of basic complexity to adult and paediatric patients.	
	LO 2		
	LO 3	EO 1 Demonstrates knowledge and understanding of biomedical sciences for diagnosis, dynamic monitoring of the most common diseases of adults and children.	
	LO 4		
	LO 5		

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	LO 6	RO 6 Communicates effectively in medical practice, taking into account the peculiarities of child and adult psychology, multiculturalism, observing the principles of medical ethics and deontology.					
6. Detailed information about the discipline							
6.1	Venue (building, auditorium): Regional Clinical Hospital, Maili Kozha-4, Auditorium №1; City Clinical Hospital №1, Auditorium №1-2; Railway Hospital, Auditorium №1;№2;№3.						
6.2	Number of hours	Lectures	Practical sessions	SIWT	SIW		
		10	30	24	56		
7. Information about teachers							
№	Full name	Degrees and position	Email address	Research interests, etc.	Achievements		
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	Subject title	Summary		Discipline LOs	Number of hours	Forms/methods/technologies of training	Assessment forms/methods
1.	Lecture. History of surgery. Asepsis.	History of surgery. General and specialized surgical care, its organization, features of development and current state. Surgical care in polyclinics, hospitals. Asepsis. Prevention of surgical infection. The importance of aseptic in modern conditions. Sources of infection. Endogenous and exogenous infection.		LO1	1	Overview	Feedback
	Practical lesson. History of surgery. Organization of surgical care in the Republic of Kazakhstan. Basic principles of surgical deontology. Features of the technique of	Ancient surgery (Hippocrates, Celsus, Galen, Abu Ali IbnSina). Surgery of the Middle Ages (AmbroisePare, T. Paracelsus). The development of surgery in the medieval era. Moscow University and Petersburg Medical and Surgical Academy (PA Zagorsky, KP Shchepin, IF Bush, IV Buyalsky, EO Mukhin). Role of N.I. Pirogov in the development of world and national surgery. The most prominent representatives of surgery of the XX century.		LO1,2	2	Discussion of the topic of the lesson, solving situational tasks,	Oral questioning checklist, demonstration of practical skills and situational tasks.



	examination of surgical patients	Development of surgery in the Republic of Kazakhstan. Surgical schools, the most prominent surgical scientists. Prophylactic direction and physiological basis of modern surgery. General and specialized surgical care, its organization, features of development and current state. Surgical care in polyclinics, hospitals. Features of examination of patients with trauma; acute and chronic surgical diseases. General idea of modern methods of examination and diagnosis of surgical diseases.				
	SIWT. Consultation on the implementation of SIW Modern methods of examination of surgical patients.	Modern methods of examination of surgical patients. Preparation of patients for examinations. Laboratory and instrumentalexamination of the patient.	LO4,5	2/3	Preparing and defending a presentation.	Checklist for presentation of the topic of the abstract
2.	Lecture. Antisepsis	Ideological antecedent antecedents. Types of modern antiseptics. Views on the mechanism of action of antiseptic agents: the effect on phagocytosis, the bactericidal action of antiseptics.	LO1	1	Overview	Blitz on the topic
	Practical lesson. Antisepsis	The importance of a sepsis in modern conditions. Sources of infection. Endogenous and exogenous infection. Prevention of the spread of infection. Organization of the surgical department, its layout, main rooms and their arrangement. Wards, treatment rooms, dressing rooms, and their equipment. The	LO1,2	2	Oral questioning, learning practical skills.	Oral survey checklist, demonstration of practical skills



		operating unit, its device and equipment. Types of cleaning of the operating room and dressing room. The device and equipment of the surgical office in the polyclinic. Surgical instruments, features of their device, pre-sterilization preparation and sterilization, care for them. Dressing material, its main properties. Autoclave, its structure and principle of operation. Stability control. Preparation of the operating field. Modern methods of preparing the surgeon's hands for surgery. Modern methods of sterilization: ultrasonic, gas sterilization in modern conditions.				
	SIWT. Consultation on the implementation of SIW Prevention of nosocomial infections in surgical hospitals.	Prevention of nosocomial infections in surgical hospitals. Prevention of airborne infection. Prevention of contact infection. Sanitary and hygienic requirements and anti-epidemic regime in the surgical department.	LO4,5	2/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics
3.	Practical lesson. Antisepsis	Types of antiseptics. Characteristics of the main antiseptics and antibiotics. Fundamentals of rational antibiotic therapy, complications in the use of antibiotics and their prevention. Enzyme therapy of surgical infection. The main methods of using antiseptics.	LO1,2	2	Discussion of the topic of the lesson, test problem solving, case discussion	Oral survey checklist. Testing, Supervision of learning practical skills
	SIWT. Consultation on the implementation of SIW. Modern synthetic materials in surgery and traumatology.	Modern synthetic materials in surgery and traumatology.	LO3	1/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics
4.	Lecture. General questions of anesthesiology	History of pain relief. The main stages of the development of general anesthesia and local anesthesia. General anesthesia. The mechanism of action of a narcotic substance on the body (theory of anesthesia). Clinical course of anesthesia. Mask, intubation, intravenous anesthesia. Indications. Contraindications. Equipment for anesthesia and	LO2,3	1	Overview	Feedback



		artificial ventilation of the lungs. Method of artificial lung ventilation. Local anesthesia. Medicinal substances used for local anesthesia.				
	Practical lesson. General and local anesthesia	General anesthesia. The mechanism of action of a narcotic substance on the body (theory of anesthesia). Muscle relaxants. The mechanism of their action. Complications with the use of muscle relaxants. Clinical course of anesthesia. Mask, intubation, intravenous anesthesia. Indications. Contraindications. Types and methods of local anesthesia (surface, infiltration according to Vishnevsky, conductor, root, intraosseous). Indications. Contraindications. Complications after general and local anesthesia.	LO4,5	2	Discussion of the topic of the lesson, Oral questioning, learning practical skills.	Oral survey checklist, demonstration of practical skills
	SIWT. Consultation on the implementation of SIW Complications of general anesthesia and local anesthesia. Types of blockades.	Complications of general anesthesia and local anesthesia (during anesthesia, early and late complications). Types of novocaine blockades. Indications and contraindications of the blockade. Mechanism of action. Methodology.	LO4,5	2/3	Preparing and defending a presentation.	Check-list of presentation, abstract topics
5.	Lecture. Bleeding and hemostasis.	The concept. Classification. Symptomatology of bleeding. Acute anemia after blood loss. The body's reaction to bleeding. Types of internal bleeding. Clinical picture. Diagnostics. Methods of stopping bleeding	LO3	1	Overview	Blitz on the topic
	Practical lesson. Blood groups. Rh factor. Blood transfusion.	Methods for determining blood groups. The Rh factor and its definition. Preservation of blood, its storage and determination of suitability for transfusion. Blood preparations and components. Indications and contraindications to blood transfusion. Compatibility tests. The mechanism of action of transfused blood. Blood transfusion	LO3,6	2	Discussion of the topic of the lesson по методу СП, solving situational tasks	Checklist of Oral questioning



		technique. Intravenous, intra-arterial, and intraosseous blood transfusions.				
	SIWT. Consultation on the implementation. SIW Terminal state. Collapse, fainting. Traumatic shock syndrome. Principles of diagnosis and treatment.	The general effect of trauma on the body. Shock, collapse, fainting. Traumatic shock, pathogenesis, clinic, treatment, prevention. Traumatic toxicosis, pathogenesis, clinic and treatment. Terminal conditions Causes, pathogenesis and clinic of traumatic asphyxia, traumatic toxicosis and shock, principles of first aid. Assessment of the severity of the patient's condition according to the main indicators of vital activity (blood pressure, pulse), provision of step-by-step assistance, extraction of the victim from under the rubble. Prevention of renal and hepatic insufficiency	LO2,4	2/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics.
6.	Practical lesson. Bleeding and hemostasis. Acute blood loss.	The concept. Classification. Symptomatology of bleeding. Acute anemia after blood loss. The body's reaction to bleeding. Types of internal bleeding. Clinical picture. Diagnostics. Temporary and final methods of stopping bleeding; mechanical, chemical, physical, biological. Causes of death from blood loss.	LO3,4	2	Discussion of the topic of the lesson, test problem solving, case discussion	Oral survey checklist. Testing, Supervision of learning practical skills
	SIWT. Consultation on the Implementation. SIW Donation. Filling out medical documentation. Complications and reactions during blood transfusion	Donation. Organization of the blood service.Errors, dangers and complications and reactions during blood transfusion, their prevention. Complications of transfusion of blood substitutes, their prevention and treatment.	LO3,4	1/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics.
7.	Lecture. The main questions of transfusiology	History of blood transfusion. Preservation of blood, its storage and determination of suitability for transfusion. Blood preparations and components. Indications and contraindications to blood transfusion.Compatibility tests. The	LO2,3	1	Overview	Feedback



		mechanism of action of transfused blood. Blood substitutes. Classification of blood substitutes by chemical composition and their purpose.				
	Practical lesson. Closed mechanical damage. Desmurgy. Transportation.	Organization of trauma care. Fundamentals of traumatology. Classification. The concept of industrial, agricultural, domestic, street, sports, military injuries. Organization of first aid. Closed damage. Soft tissue injuries: bruises, sprains, tears. Dislocations. Bone fractures. Classification. The mechanism of dislocations. Clinic and treatment. First aid for closed and open fractures. The concept of bandages and bandages. Bandages, glue, kerchiefs, plaster bandages. Types of solid dressings. Methods of applying plaster dressings, complications. The concept of immobilization. Tasks and goals of immobilization. Transport and medical tires. Methods of transporting patients with various injuries and injuries.	LO2,4	2	Discussion of the topic of the lesson, Oral questioning, learning practical skills.	Oral survey checklist, demonstration of practical skills
	Midterm examination -1	Monitoring of learning achievements	Solving test questions and taking practical skills			
8.	Lecture. Closed and open mechanical damage.	Closed damage. Soft tissue injuries: bruises, sprains, tears. First aid services. Dislocations. Classification. The mechanism of dislocations. Clinic and treatment. Bone fractures. Classification. The clinic. First aid for closed and open fractures. Classification. The course of the wound process. Types of wound healing. General principles of treatment of fresh wounds. Primary surgical treatment of wounds. Primary, primary-delayed, secondary sutures. Principles of treatment of	LO4,5	1	Overview	Blitz on the topic



		infected wounds. Thermal and chemical burns. Classification of burns by degree, area of the lesion. First aid services. Burn disease. Periods of burn disease. Treatment. Outcomes.				
	Practical lesson. Open mechanical damage.	Classification. The course of the wound process. Types of wound healing. Morphological and biochemical changes in the wound. General principles of treatment. Primary surgical treatment of wounds. Indications and contraindications. Types of sutures. Principles of treatment of purulent wounds. Methods of local and general treatment of wounds. Local and general reactions of the body in electrotrauma. First aid services. Treatment. Thermal and chemical burns. Classification of burns by degree, area of the lesion. Burn disease. First aid. Treatment. Frostbite. Classification. Symptoms in the pre-reactive and reactive periods. Degrees of frostbite. Modern views on the pathogenesis of frostbite. General cooling. Prevention. Treatment.	LO2,4, 5	2	Discussion of the topic of the lesson, solving situational tasks, learning practical skills.	Oral survey checklist, demonstration of practical skills
	SIWT. Consultation on the implementation of SIW. Long crush syndrome. Principles of diagnosis and treatment.	Long crush syndrome. The mechanism of action of trauma. Clinics, pathogenesis, diagnosis, first aid and treatment. Transportation	LO1,2, 3	2/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics.
9.	Practical lesson. Operation. Pre- and postoperative periods.	The definition. Types of surgical intervention. Stages of surgical operation. Preoperative period. Tasks of the preoperative period. Preparation of the patient for surgery. Features of preparation for emergency operations. Observation of the patient during the operation and	LO4,5	2	Discussion of the topic of the lesson, test problem solving, case discussion	Oral survey checklist. Testing, Supervision of learning practical skills



		physiological methods of monitoring his condition. Postoperative period. Patient care. Monitoring the appearance, temperature, nervous system, heart and lung activity, digestive organs and urination.				
	SIWT. Consultation on the implementation of SIW. The main clinical syndromes that occur in chest damage (hemothorax, pneumothorax).	Methods of research of patients with chest organs diseases. Bruises, chest injuries. Clinic, prevention of respiratory failure, treatment. Closed and open damage.	LO4,5	1/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics.
10.	Lecture.	The concept. Types of surgical intervention. Stages of surgical operation. Anatomical and physiological justification of surgical operations. Preoperative period. Tasks of the preoperative period. Preparation of the patient for surgery. Features of preparation for emergency operations. Observation of the patient during the operation and physiological methods of monitoring his condition. Postoperative period. Patient care. Observation of the appearance, temperature, nervous system, heart and lung activity, digestive organs and urination.	LO2,4,5	1	Overview	Feedback
	Practical lesson. Acute local surgical infection.	Acute and chronic surgical infection. Classification. Etiology and pathogenesis. Local and general reaction of the body. Certain types of acute purulent diseases (boils, carbuncles, hydroadenitis, phlegmon, abscess, thrombophlebitis, mastitis, panaritias, lymphangitis, lymphadenitis, paratitias, bursitis, purulent synovitis, etc.). Clinic. Diagnostics. Prevention issues. Basic principles of general and local treatment.	LO4,5	2	Small group work, TBL	Checklist.



	SIWT. Consultation on the implementation of SIW. Organization of outpatient surgical services	Organization of outpatient surgical services. The structure of the surgical room of the polyclinics. Surgical manipulations performed on an outpatient basis. Sorting of surgical patients. Indications for hospitalization.	LO4,5	2/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics.
11.	Lecture. Acute local surgical infection	Acute and chronic surgical infection. Classification. Etiology and pathogenesis. Local tissue reaction. The general reaction of the body. Certain types of acute purulent diseases. Prevention issues. Basic principles of general and local treatment. The importance of the use of antibiotics.	LO4,5	1	Overview	Blitz on the topic
	Practical lesson. Sepsis. Osteomyelitis.	Sepsis. General purulent infection. Classification. Pathogenesis. Clinical symptoms. Diagnostics. Treatment. Osteomyelitis. Classification (acute hematogenic, traumatic, primary-chronic forms of osteomyelitis, osteoarthritis). Treatment.	LO1,4	2	Discussion of the topic of the lesson, Oral questioning, learning practical skills.	Oral survey checklist, demonstration of practical skills
	SIWT. Consultation on the implementation of SIW. Information and computer technologies in surgery.	Laparoscopic surgery. Endovideosurgery. Development of laparoscopic surgery in the Republic of Kazakhstan. Telemedicine.	LO4,5	2/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics.
12.	Practical lesson. Necrosis, gangrene (dry and wet), ulcers, fistulas.	Necrosis, gangrene (dry and wet), ulcers, fistulas. Causes and conditions of the disease. Clinics and treatment. Thrombosis, embolism. Trophic ulcers (varicose, post-traumatic, scar, post-burn, etc.). Bedsores. Fistulas. Classification. Diagnostics. Treatment	LO4	2	Discussion of the topic of the lesson, Oral questioning, learning practical skills.	Oral survey checklist, demonstration of practical skills
	SIWT. Consultation on the implementation of SIW. Fundamentals of plastic surgery and transplantology.	History of transplantology. Areas of transplantology. The meaning of xenotransplantation, allotransplantation, autotransplantation. The concept of the meaning of an artificial organ, organ cloning. Classification according to the source of the transplanted tissues and organs. Plastic and reconstructive surgery.	LO4,5	1/3	Preparation and defence of the abstract, presentation topics, compiling a glossary	Check-list of presentation, abstract topics, глоссарий



13.	Lecture. Chronic specific surgical infection.	Osteoarticular tuberculosis. Classification. Pathogenesis. Stages and phases. Clinical course of the disease (local and general symptoms). Features of the course in the prearthritic and arthritic stages. Complications. Organization of sanitary and orthopedic care. Surgical treatment. Selected types (spondylitis, coxitis, gonitis, tuberculous lymphadenitis).	LO4	1	Overview	Feedback
	Practical lesson. Chronic surgical (specific) infection.	Osteoarticular tuberculosis. Classification. Pathogenesis. Features of treatment. Complications. Individual types (spondylitis, coxitis, gonitis). Surgical treatment. Organization of sanitary and orthopedic care. Actinomycosis. Pathogenesis. Symptoms. Diagnostics and treatment.	LO5	2	Discussion of the topic of the lesson, solving situational tasks, learning practical skills.	Oral survey checklist, demonstration of practical skills
	SIWT. Consultation on the implementation of SIW. The syndrome of "occlusion of the main blood vessels".	Methods of research of patients with vascular diseases. Obliterating endarteritis, obliterating atherosclerosis, varicose veins, deep vein thrombophlebitis of the lower leg. Clinics, diagnostics and treatment.	LO4	2/3	Preparation and defence of the abstract, presentation topics	Check-list of presentation, abstract topics
14.	Lecture. Parasitic diseases. Basic issues of oncology. Tumors.	Echinococcosis. The concept of single-chamber (hydatidosis) and multi-chamber (alveolar) echinococcosis. Pathological anatomy and clinic of the lesion. Principles of surgical treatment. Cysticercosis. Giardiasis. Opisthorchiasis. Ascariasis. Ways of infection. Study of types of tumors, symptoms of benign and malignant tumors, their differential diagnosis, precancerous diseases, principles of treatment of tumors.	LO4,5	1	Overview	Blitz on the topic
	Practical lesson. Malformations. Plastic surgery.	Malformations, concept. Malformations of the head, neck, chest, abdomen, and limbs. Principles of surgical treatment of malformations. Plastic surgery. Transplantology. Biological conditions of tissue transplantation. Selection of donors. The use of immunosuppressive drugs.	LO4,5,6	2	Discussion of the topic of the lesson, test problem solving, case discussion	Oral survey checklist. Testing, Supervision of learning practical skills



	SIWT. Consultation on the implementation of SIW. Basics of parasitic diseases surgery	Echinococcosis. The concept of single-chamber and multi-chamber echinococcosis. Pathological anatomy and clinics of the lesion. Principles of surgical treatment. Cysticercosis. Giardiasis. Ascariasis. Opisthorchiasis. Ways of infection.	LO4,5	1/3	Preparation and defence of the abstract, presentation topics.	Check-list of presentation, abstract topics
15.	Practical lesson. Tumors. Benign and malignant tumors.	Tumors. General information. Benign and malignant tumors. Clinics and diagnostics. Early diagnostics of malignant tumors. Precancerous diseases. Oncological alertness. Therapeutic tactics: surgical, radiation, chemotherapeutic, combined treatment. Organization of cancer care in Kazakhstan	LO5,6	2	Discussion of the topic of the lesson, Oral questioning, learning practical skills.	Oral survey checklist, demonstration of practical skills
	Midterm №2	Monitoring of learning achievements	Solving test questions and taking practical skills			
Preparing and conducting interim certification				12		
9. Teaching methods and forms of control						
9.1	Lectures	Overview, Feedback, Blitz on the topic				
9.2	Practical exercises	Discussion of the topic of the lesson, Oral questioning, Small group work (TBL), solving tests and case studies, case discussion, learning practical skills.				
9.3	SIW/SIWT	Preparation and defence of the abstract, presentations on the topic, compiling a glossary, doing a crossword puzzle.				
9.4	Midterm	Solving test questions and taking practical skills				
10. Assessment criteria						
10.1 Criteria for assessing the learning outcomes of the discipline						
№	Learning Outcomes	Unsatisfactory	Satisfactory	Good	Excellent	
LO1	He is able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of medical care for patients with a surgical profile	1. Is not able to demonstrate knowledge and understanding during the justification and formulation of a clinical diagnosis, does not use the classification of nosology	1 Demonstrates insufficient knowledge and understanding when conducting the justification and formulation of a clinical diagnosis, does not use the classification of nosology, based on the KP of the Ministry of Health of the Republic of Kazakhstan	1 Is able to substantiate and formulate a clinical diagnosis using the classification of nosology	1. Independently substantiates and formulates a clinical diagnosis using the classification of nosology	



LO2	Able to effectively interact with a surgical patient, his environment, healthcare professionals in order to achieve the best results for a surgical patient	2. Unable to make a treatment plan, calculate medications, evaluate the effectiveness of therapy for patients with a surgical profile	2 Does not allow accuracy and errors in treatment tactics, calculation of drugs, evaluation of the effectiveness of therapy for patients with a surgical profile	2. Is able to determine the tactics of treatment based on the KP of the Ministry of Health of the Republic of Kazakhstan, calculate drugs, evaluate the effectiveness of therapy based on the principles of evidence-based practice for patients with a surgery profile	2.Independently builds management tactics and treatment plan based on the KP of the Ministry of Health of the Republic of Kazakhstan, calculates drugs and, if necessary, infusion therapy, evaluates indicators of therapy effectiveness
LO3	He is able to assess the risks of a surgical disease and use the most effective methods to ensure a high level of safety and quality of medical care for a surgical patient	3. I have not worked through the main literature.	3. Does not fully use the literature recommended in the syllabus	3. Uses the literature recommended in the syllabus.	3. Analyzes appointments based on the principles of evidence-based practice at all levels of medical care for patients with a surgery profile
LO4	Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan on surgical diseases, provide basic assistance in emergency situations, carry out anti-epidemic measures, work as part of surgical teams to implement the policy of strengthening the health of the nation		1. Demonstrates insufficient communication skills of interaction with a surgical patient, his environment	1. Is able to effectively interact with a surgical patient, his environment using communication skills	4. Uses literature from scientific databases.
LO5	Able to formulate adequate research questions in the field of surgery, critically evaluate	1. Does not apply the basics of communication skills of	2 Makes mistakes when interacting with healthcare professionals. Does not fully achieve the	2. Able to interact with healthcare professionals in order to achieve the best results for a	1. Independently effectively uses communication skills of interaction with a surgical patient, his environment

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professional literature, effectively use international databases in their daily activities, participate in the work of the research team	interaction with a surgical patient, his environment	best results for a trauma patient	patient of a surgical profile	
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10.2 Assessment criteria of learning outcomes of the discipline

Checklist for the practical session

	Form of control	Оценка	Критерии оценки
1	Verbal the survey:	Great Corresponds to the estimates: A (4,0; 95-100%); A- (3,67; 90-94%)	It is put in the event that the trainee did not make any mistakes or inaccuracies during the response. He is guided by theories, concepts and directions in the discipline under study and gives them a critical assessment, uses scientific achievements of other disciplines.
		Well Corresponds to the estimates: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	It is put in the event that the student did not make gross mistakes during the answer, made unprincipled inaccuracies or fundamental errors corrected by the student himself, managed to systematize the program material with the help of the teacher.
		Satisfactory Corresponds to the estimates: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	It is put in the event that the teacher made inaccuracies and unprincipled mistakes during the answer, limited himself only to the educational literature indicated by the teacher, experienced great difficulties in systematizing the material.
		Unsatisfactory Corresponds to the assessment: F _x (0,5; 25-49%) F (0; 0-24 %)	It is put in the event that the teacher made fundamental mistakes during the answer, did not work out the main 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.
2	Performing practical work:	Great Corresponds to the estimates: A (4,0; 95-100%); A- (3,67; 90-94%)	It is put in the event that the trainee did not make any mistakes or inaccuracies during the response. He is guided by theories, concepts and directions in the studied discipline and gives them a critical assessment, uses scientific achievements of other disciplines
		Well Corresponds to the estimates: B+ (3,33; 85-89%); B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	It is put in the event that the student did not make gross mistakes during the answer, made unprincipled inaccuracies or fundamental errors corrected by the student himself, managed to systematize the program material with the help of the teacher



		<p>Satisfactory Corresponds to the estimates: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)</p>	<p>It is put in the event that the teacher made inaccuracies and unprincipled mistakes during the answer, limited himself only to the educational literature indicated by the teacher, experienced great difficulties in systematizing the material.</p>
		<p>Unsatisfactory Corresponds to the assessment: F_x (0,5; 25-49%) F (0; 0-24 %)</p>	<p>It is put in the event that the teacher made fundamental mistakes during the answer, did not work out the main 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	Solving training situational tasks	<p>Great Respond estimates: A (4,0; 95-100%); A- (3,67; 90-94%)</p>	<p>Actively participated in the work, showed original thinking, showed deep knowledge of the material, used scientific achievements of other disciplines in the discussion.</p>
		<p>Well Corresponds to the estimates: 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, showed knowledge of the material, admitted unprincipled inaccuracies or fundamental errors corrected by the student himself.</p>
		<p>Satisfactory Corresponds to the estimates: C(2,0; 65-69%) C-(1,67; 60-64%) Д+ (1,33; 55-59%) Д(1,0; 50-54%)</p>	<p>When working, he was passive, made inaccuracies and unprincipled mistakes, experienced great difficulties in systematizing the material.</p>
		<p>Unsatisfactory: FX (0,5; 25-49%) F (0; 0-24%)</p>	<p>He did not take part in the work, answering the questions of the teacher, made fundamental mistakes and inaccuracies, did not use scientific terminology in the answers.</p>
4	TBL:	<p>Perfectly matches the estimates: A (4,0; 95-100%) A- (3,67; 90-94%)</p>	<p>It is set if the student has scored 90-100 points, which include the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% Additional points - 5% *Testing is evaluated according to the "testing" evaluation criteria. The task is evaluated according to the evaluation criteria "solving situational problems (SBL)". If an appeal case arises, points (5%) can be added to the assessment of the group testing. At the discretion of the teacher, additional points (5%) may be added for teamwork.</p>
		<p>Matches the estimates well: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%)</p>	<p>It is set if the student scored 70-89 points, which include the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5%</p>



		C+ (2,33; 70-74%)	- Task – 30% - Additional points -5% *Testing is evaluated according to the evaluation criteria "testing". The task is evaluated in accordance with the evaluation criteria "solving situational problems (SBL)". If an appeal case arises, points (5%) can be added to the assessment of the group testing. At the discretion of the teacher, the following may be added additional points for teamwork (5%).
		Satisfactorily corresponds to the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	It is set if the student scored 50-69 points, which include the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% - Additional points -5% *Testing is evaluated according to the "testing" evaluation criteria. The task is evaluated in accordance with the evaluation criteria "solving situational problems (SBL)". If an appeal case arises, points (5%) can be added to the assessment of the group testing. At the discretion of the teacher, additional points (5%) may be added for teamwork.
		Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	It is set if the student scored 0-49 points, which include the following assessment results: - Individual testing (IRAT) – 40% - Group testing (GRAT) – 30% - Appeal – 5% - Task – 30% - Additional points -5% *Testing is evaluated according to the "testing" evaluation criteria. The task is evaluated in accordance with the evaluation criteria "solving situational problems (SBL)". If an appeal case arises, points (5%) can be added to the assessment of the group testing. At the discretion of the teacher, additional points (5%) may be added for teamwork.
5	Testing	Perfectly matches estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	90-100% correct answers.
		Matches the estimates well: 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 the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	50-74% correct answers.



		Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	Less than 50% of the correct answers.
Checklists for SIW/SIWT			
6	Preparation and defence abstract:	Perfectly matches the estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	The abstract is carefully executed and submitted at the appointed 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 given. When defending the abstract, the text does not read, but tells. Confidently and accurately answers all the questions asked.
		Matches the estimates well: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The abstract is carefully executed and submitted at the appointed 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 given. When defending the abstract, the text does not read, but tells. When answering questions, he makes unprincipled mistakes.
		Satisfactorily corresponds to the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	The abstract is carefully executed and submitted at the appointed time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. When defending the abstract, the text reads. Hesitantly answers questions, makes fundamental mistakes.
		Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	The abstract was made carelessly and was not submitted at the appointed time, written independently on less than 10 pages of typewritten text, using less than 5 literary sources. When defending the abstract, the text reads. When answering questions, he makes gross mistakes, does not orient himself in the material.
7	Presentation of the topic:	Perfectly matches the estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	The presentation was made independently, at the appointed time, with a volume of at least 20 slides. At least 5 literary sources were used. The slides are informative and concise. During the defense, the author demonstrates in-depth knowledge of the topic. Does not make mistakes when answering questions during the discussion.
		Matches the estimates well: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The presentation was made independently, at the appointed time, with a volume of at least 20 slides. At least 5 literary sources were used. The slides are informative and concise. During the defense, the author demonstrates good knowledge of the topic. He makes unprincipled mistakes when answering questions that he corrects himself.
		Satisfactorily corresponds to the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	The presentation was made independently, at the appointed 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.
		Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	The presentation is not delivered 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. Does not orient himself in his own



			material.
8	Compiling a glossary:	Perfectly matches the estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	The glossary is made in the full scope of the dictionary, designed, correctly reflects the main terms and concepts. There is a comparative interpretation of the terms. Delivered at the appointed time. The teacher confidently and accurately answers all the questions asked.
		Matches the estimates well: 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 the full scope of the dictionary, designed, correctly reflects the main terms and concepts. There is a comparative interpretation of the terms. Delivered at the appointed time. The teacher makes unprincipled mistakes when answering questions.
		Satisfactorily corresponds to the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	The glossary is made in the full scope of the dictionary, designed, correctly reflects the main terms and concepts. Delivered at the appointed time. During the defense, the student answers questions uncertainly, makes fundamental mistakes.
		Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	The glossary is not completed in full, carelessly and not delivered on time. When answering questions, the teacher makes gross mistakes, does not orient himself in the material.
9	Making a crossword puzzle:	Perfectly matches the estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	The crossword is made up of 7 or more words, the words are joined more than 3 times, there are no errors in the crossword questions, the questions are composed correctly, logically and predetermine the necessary answer, the design meets the requirements.
		Matches the estimates well: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The crossword is made up of 7 words, the words are joined 3 times, there are no fundamental errors in the crossword questions, the questions are composed correctly, but there are minor inaccuracies, the design meets the requirements.
		Satisfactorily corresponds to the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	The crossword is made up of 7 words, the words fit together 2 times, there are inaccuracies and errors in the crossword questions.
		Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	The crossword is made up of less than 7 words, the words are joined less than 2 times (or do not fit together), there are fundamental, gross errors in the crossword questions.
Interim assessment			
Midterm			
Форма контроля	Оценка	Критерии оценки	
Testing	Perfectly matches estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	90-100% correct answers.	



	Matches the estimates well: 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 the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	50-74% correct answers.
	Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	Less than 50% of the correct answers.
Demonstration practical skills	Perfectly matches the estimates: A (4,0; 95-100%) A- (3,67; 90-94%)	Excellent orientation when questioning and examining patients. Correctly and accurately selects questions when collecting anamnesis. Performs basic physical examination without errors: general examination, palpation, percussion, auscultation, measurement of blood pressure, determination of pulse characteristics. Evaluate the results of the examination without errors. Used additional literature in preparation for the lesson. Systematises the material on the topic. Communicates effectively in medical practice, provides objective and appropriate information, possesses and uses the norms of ethics and deontology when performing a skill;
	Matches the estimates well: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	Good orientated when questioning and examining patients, made non-principled inaccuracies or principal errors corrected by the student. Error-free basic physical examination: general examination, palpation, percussion, auscultation, measurement of blood pressure, determination of pulse characteristics. Is unable to correctly interpolate examination findings. Inaccurately communicates appropriate information;
	Satisfactorily corresponds to the estimates: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	Oriented when questioning and examining patients, There are errors in conducting physical examination (palpation, percussion, auscultation and general examination) showed incomplete mastery of the material on the given topic, while making fundamental errors. There are errors in assessing the results of examination. Low level of communicative skills in medical practice; communicates appropriate information in a subjective manner;
	Unsatisfactorily meets the estimates: FX (0,5; 25-49%) F (0; 0-24%)	Not able to carry out practical skills interpreting their results. Did not participate in the work of the group. Is not able to communicate in medical practice; does not deliver proper information, does not possess and is not able to use the norms of ethics and deontology when performing the skill. When

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answering the questions of the instructor, gross errors, not using specific terminology when answering.

Multi-point system of knowledge assessment

Grade by letter system	Numeric equivalent of points	Percentage	Grade by traditional system
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	Unsatisfactory
FX	0,5	25-49	
F	0	0-24	

11. Learning resources

Electronic resources	<ul style="list-style-type: none"> • Nurmakov, Almaty Surgical operations [Electronic resource]: Textbook, Almaty, Almaty, S. • M. P. the dictionary implemented a two-way translation. - Electron.text Dan. (59.9 MB). - M. "Litterra", 2017. - 256 p. P. 10ekz. • Gostishchev, V. P. General surgery [Electronic resource]: Textbook / V. p. Gostishchev ;Kazakhstan. p-n d. a. the dictionary implements a two-way translation. - Electron.text Dan. (141mb). - M. - M.: publishing house of KSU them. al-Farabi, 2012. - M.: publishing house KAZ. SSR. P. 12ekz. • Surgical diseases [electronic resource] : textbook / ed. - Electron.text Dan. ((69.1 MB). - Moscow: GEOTAR-Media, 2012. - - 664 p. 10 copies.* Electronic textbook on General • surgery, anesthesiology and resuscitation [Electronic resource]: electronic textbook for medical colleges. - Moscow: Science, 1978. - 2 copies. • Seksenbaev, D. S. Surgical diseases (textbook on the discipline of hospital surgery) [Electronic resource]: textbook . - Electron. text Dan. (680 MB). - El Republic. wholesale. • disk (CD-ROM). - 1 copy.
Literature	<p>Basic:</p> <ul style="list-style-type: none"> • S. Petrova V. General surgery: textbook and CD. - 3rd ed. - M., - 768 P.; Gostischev V. P. General surgery: textbook and CD.- 4th ed. - M., 2006. 832 p.; • Durmanov, G. D. General surgery]: textbook / . - Karaganda: Aknur, 2017. - 608 pages. NurmakovӘ.J. Chirurgicale: clinicality. Almaty, 2006. • Seksenbayev D. S. Chirurgicale: owely. Shymkent 2017. • The main issues of General and emergency surgery: a manual/ translated from English. Edited by V. S. Savelyev, A. I. Kirienko. - M., 2008, - 500 p. • Code of RK "on health of the people and health care system" dated September 18, 2009. In kanybekov, Pp. Operating ligation and actions procedural nurses [Text]: textbook / A. • Kaldybaev, M. A., Situational tasks : textbook for General surgery-Karaganda : SP "Aknur", 2013. • Kuznetsov, N. Care for surgical patients: textbook-M.: GEOTAR-Media, 2013. Kaldybaev M. A. General surgery.-1-2-3 textbook.- Moscow: Science, 1989.

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- Kaldybaev M., Test questions of General surgery: textbook. - Karaganda: SP "Aknur", 2013.
- Kuznetsov, N. A. Chirurgery newestate KTM: Oulu - M. : GEOTAR - Media, 2013
- Fundamentals of care for surgical patients: studies.manual / A. Glukhov [et al.] - M., 2008. Abilmazhinov, M. T. Modern approaches to aninvasion treatment of limb injuries : a training manual. - Almaty: Evero, 2014..

Additional:

- Shevchenko clinical care of surgical patients. Textbook. - M., 2008. - 412 p. Evseev M. M. patient care in surgical practice: a textbook. - M., 2008. - 192 p. Gostishchev V. K. General surgery: textbook, Moscow : GEOTAR - Media, 2013.
- Abdrakhmanov, E. General surgery: textbook / P. the dictionary implemented two-way translation. - Moscow: Higher School, 2011.
- General care of surgical patients: Handbook / comp. R. T. Aimuradov. - Shymkent, 2005. Vinnytsia, I. M. First aid for major surgical diseases and injuries: textbook. - Rostov n / A: Phoenix, 2009.
- Gostishchev V. K. Infection in surgery : the hand.for doctors. - M., 2007 Mishenkin, P. N. General surgery : lecture notes . - M.: Eksmo, 2006.
- Nurtelecom, M. A. General surgery : textbook for students of honey.higher educational. - Rostov n / A, 2006.
- Gostishchev V. K. General surgery: textbook. - 4th ed., ISPR. - M., 2006. + el. wholesale.disk (CD-ROM).
- General care of surgical patients: method. instructions.-Sh., 2005.
- Petrov S. V. General surgery: textbook . - 2nd ed., Rev. and extra - SPb., 2005.
- Workshop on the course of General surgery: studies.the allowance / under the editorship of P.
- N. Zubarev. - SPb., 2004
- Barykina N. B. practical guide to traumatology for paramedics: studies. benefit. - Rostov n / A: Phoenix, 2009.
- Marchenko D. V. First aid in case of injuries and accidents: studies.manual for students of secondary professional education. - Rostov n / A: Phoenix, 2009.
- Construction of tanks and portable plaster bandages on the fracture and yield in the conditions of traumatologic points: methodical course . - M. : Publishing House Of KAZ. SSR. G., 2005. Vinnytsia, I. M. First aid for major surgical diseases and injuries : textbook . - Rostov n / A: Phoenix, 2009.

12. Course policy

Requirements for students, attendance, behavior, grading policy, punitive measures, incentive measures, etc.

1. Be in special clothes (bathrobe, cap) during classes.
2. Compulsory attendance of lectures, practical classes and SIWT according to schedules.
3. Do not be late, do not miss lectures and classes. In case of illness, provide a certificate and a work-out sheet with an indication of the deadline, which is valid for 30 days from the moment it is received at the dean's office.
4. Missed classes for a disrespectful reason are not worked out. Students who missed classes for a disrespectful reason in the electronic journal next to the mark "h" are given a score of "0" and penalty points are deducted:
 - the penalty point for skipping 1 lecture is 1.0 point from the assessments of the boundary control
 - the penalty point for skipping 1 session of the SIW is 2.0 points from the SIWT estimates.
5. Attending classes with a doctor is mandatory. In case of absence of students at the SIWT, a mark "h" is made in the educational and electronic journal.
6. Each student must complete all forms of SIW assignments and pass on schedule.
7. For each practical lesson and SIWT, all students should prepare in a timely and clear manner and take an active part in the discussion of the topic.
8. Be responsible for the sanitary condition of your workplace and personal hygiene.
9. Eating in classrooms is strictly prohibited.
10. Observe safety regulations when working with simulation models

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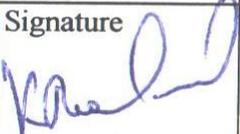
11. Comply with the Academy's internal regulations and ethics of conduct.
12. Be tolerant, open and friendly to fellow students and teachers.
13. Carefully treats the property of the department.

13. Academic policy based on the moral and ethical values of the Academy

13.4 Student's Honor Code
1

13. GRADING POLICY

- 2** 1. Several forms of knowledge control are used in the lesson. The average score is put in the magazine.
2. A student who has not scored a passing score (50%) on one of the types of controls (current control, boundary control No. 1 and/or No. 2) is not allowed to take the exam in the discipline.
3. The final rating 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 boundary controls (20%).
1. 4. Final certification – is carried out in two stages: the reception of practical skills and in the form of testing.

14. Approval and revision			
Date of approval by the department	Protocol <u>№10,84</u> <u>31.05.2023</u>	Full name of the manager, Candidate of Medical Sciences, Acting Associate Professor Zhumagulov K.N.	Signature 
Date of approval for the COP	Protocol <u>№11</u> <u>05.06.2023</u>	Full name of COP, Doctor of Medical Sciences, Acting Professor Sadykova A.Sh.	Signature 

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SOUTH KAZAKHSTAN

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