



SOUTH KAZAKHSTAN  
**MEDICAL  
ACADEMY**

**EDUCATIONAL PROGRAM OF RESIDENCY**

**7R01125 TRAUMATOLOGY-ORTHOPEDICS (ADULTS, CHILDREN)**

Shymkent, 2025 y.

The educational program of the residency 7R01125 «Traumatology-orthopedics (adults, children)» was developed by the Department of Surgery, Oncology and Traumatology

Head of the Department, MD, Acting Professor Abdurakhmanov B.A.  
Protocol no. 12 of " 18 " 04 2025 y.

**Agreed with the employer:**

Representative of the practical healthcare Department, Deputy Head of the State Enterprise for PCV  
"Regional Clinical Hospital" UOZ TO Aimagambetov M.B.

**Discussed at the meeting of the AC Surgery profile Chairman of the AK,**

Docent

Protocol no. 4 from " 21 " 04 2025 y. Kaldygozova G.E.

**Approved by the Clinical Council**


Chairman, Professor

Protocol № 8 from " 25 " 04 2025 y. B.K.Nurmashev

**Approved by the Academic Council**

Protocol № 13 from " 04 " 05 2025 y.



ONTUSTIK-KAZAKHSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ		SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Cathedra of Surgery, Oncology and Traumatology	71/14 ( )	
Educational program 7R01125 «Traumatology-orthopedics (adults, children)»		17 page. from 3

### Passport of the educational program

**1.Mission of the educational program:** To be a recognized leader in the field of training highly specialized, competitive orthopedic traumatologists.

**2.The purpose of the educational program:** Preparation of a highly qualified orthopedic traumatologist with a system of universal, professional competencies, capable and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech trauma and orthopedic care; palliative surgical care.

### 3.Rationale for OP

Achieving high quality postgraduate medical education by introducing mandatory requirements for the level of training of students in traumatology residency;

Regulation of the educational process and creation of a system for monitoring the effectiveness of educational and scientific organizations that train residents and trainees in traumatology;

Streamlining the rights and responsibilities of residency students, stimulating independent educational and practical activities of traumatology residents.

### 4. Professional standard on the basis of which educational training has been developed program

- Order of the Minister of Health of the Republic of Kazakhstan dated 04.07.2022 No. IP DSM-63 "On approval of state compulsory standards for the levels of education in the field of health";
- Professional standard "Traumatology-orthopedics (adult, pediatric)" (Order of the Minister of Health of the Republic of Kazakhstan dated January 25, 2024 No. 46 "On approval of professional standards in the field of health."
- On amendments and additions to the order of the Minister of Health of the Republic of Kazakhstan "On approval of the list of medical specialties of residency programs" dated May 25, 2021 No. KR DSM - 43 and "On approval of standard training programs in medical and pharmaceutical specialties" dated January 9, 2023 No. 4. (Order of the Minister of Health of the Republic of Kazakhstan dated November 10, 2023 No. 164).

The need of medical organizations for orthopedic traumatologists is the rationale for the discovery and need to train orthopedic traumatologists, primarily at the regional level, taking into account the main strategies and programs for the development of the health care system at the international, national and regional levels in order to increase the level of medical care.

**5.Area of professional activity:** the area of professional activity of graduates who have mastered the educational program 7R01125 "Traumatology-orthopedics (adults, children)" includes the ability to meet the needs of society when providing medical care to trauma patients, to apply and develop advanced innovative technologies in medicine, science and practice.

### 6.Objects of professional activity:

- organization of health care management;
  - organization of education;
  - organization of social protection
  - patients in need of traumatological and orthopedic care
  - a set of tools and technologies aimed at creating conditions for providing care to patients.
- Types of professional activities:
- therapeutic, preventive and diagnostic;
  - organizational and managerial;
  - research



Cathedra of Surgery, Oncology and Traumatology

Educational program 7R01125 «Traumatology-orthopedics (adults, children)»

71/14 ( )

17 page. from 4

**General information**

№	Field name	Note
1	Registration number	7R09100112
2	Code and classification of the field of education	7R 01 Healthcare and Medicine
3	Code and classification of training areas	7R 011 Healthcare
4	Group of educational programs	7R 01125 Traumatology-orthopedics for adults, children's
5	Name of the educational program	7R01125 Traumatology-orthopedics (adults, children) (residency)
6	Type of OP	Updated OP
7	Moscow Time level	7
8	The level of the NRK	7
9	ORC Level	7
10	Purpose of the OP	Preparation of a highly qualified orthopedic traumatologist with a system of universal, professional competencies, capable and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech trauma and orthopedic care; palliative surgical care.



11	List of competencies	<p><b>CC1 Medical knowledge:</b> Synthesis of professional and scientific medical knowledge to provide qualified medical care</p> <p><b>CC2 Communication:</b> Effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient</p> <p><b>CC3 Clinical skills:</b> Providing qualified basic medical care complexity categories. Determining a strategy for providing the population with qualified medical care of the second category of complexity</p> <p><b>CC4 Professionalism:</b> Coordination of activities in healthcare organizations. The ability to make decisions and bear responsibility for the results of providing qualified medical care</p> <p><b>CC5 Personal and professional development:</b> Ability to learn independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development</p> <p><b>CC6 Regulatory knowledge:</b> Ability to act within the legal and organizational field of the healthcare system of the Republic of Kazakhstan.</p> <p><b>CC7 Research:</b> The ability to research and evaluate the results of one's professional activities, and apply the principles of diagnosing diseases based on scientific data. Application of modern research methods in healthcare, taking into account bioethics and implementation in clinical practice.</p>
12	Learning outcomes	<p><b>LO1</b> able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of otorhinolaryngological care for adults and children.</p> <p><b>LO2</b> Able to effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient. To use artificial intelligence in medicine.</p> <p><b>LO3</b> able to assess risks and use the most effective methods to ensure a high level of safety and quality of otorhinolaryngological assistance.</p> <p><b>LO4</b> able to act within the legal and organizational framework of the health system of the Republic of Kazakhstan in providing otolaryngological care; provide basic assistance in emergency situations; work as part of interprofessional teams to implement a nation health promotion policy.</p> <p><b>LO5</b> Able to formulate adequate research questions, critically evaluate professional literature on traumatology and orthopedics, effectively use</p>

<p> ONTÜSTİK-QAZAQSTAN  MEDISINA  AKADEMIASY  «Оңтүстік Қазақстан медицина академиясы» АҚ </p>		<p> SOUTH KAZAKHSTAN  MEDICAL  ACADEMY  АО «Южно-Казахстанская медицинская академия» </p>
Cathedra of Surgery, Oncology and Traumatology		71/14 ( )
Educational program 7R01125 «Traumatology-orthopedics (adults, children)»		17 page. from 6

		<p>international databases in the work of a traumatologist-orthopedic surgeon, and participate in the work of a research team. To use artificial intelligence in medicine</p> <p><b>LO6</b> able to study independently and train other members of the professional team, to actively participate in discussions, conferences and other forms of continuous professional development.</p>
13	Form of training	Full - time
14	Language of instruction	Kazakh and Russian
15	Amount of credits	Total 210 credit
16	Training period	3 years
17	Awarded degree, qualification	Doctor traumatologist-orthopedist adults, children
18	Availability of an annex to the license for the direction of personnel training	KZ36LAA00011387
19	Availability of EP accreditation	Have
	Name of accreditation body	NU "INDEPENDENT CREDIT AND RATING AGENCY"
20	Validity period of accreditation	№ AB 3515 27.05.2021-26.05.2026 y
21	Information about disciplines	Application 1. 2

#### Application 1. 1

**Matrix for correlating learning outcomes in the educational program as a whole with the competencies being developed**

	LO1	LO2	LO3	LO4	LO5	LO6
CC1	+					
CC2		+				
CC3			+			
CC4				+		
CC5						+
CC6						
CC7					+	





Cathedra of Surgery, Oncology and Traumatology

Educational program 7R01125 «Traumatology-orthopedics (adults, children)»

71/14 ( )  
17 page. from 7

## Application 1.2

### Competency/learning outcome attainability matrix

No	Name of the discipline	Brief description of the discipline	Cycle (DB, PD)	Component (RC, VK, HF)	Number to the detriment.	Generated learning outcomes (codes)
1	Traumatology and orthopedics ambulatory-clinic adult	Organization of trauma care to the population of the Republic of Kazakhstan at the prehospital stage. The concept of injury. Clinic, diagnosis, differential diagnosis of traumatological and orthopedic diseases. Methods of conservative treatment in traumatology and orthopedics. Tunnel syndromes in traumatology and orthopedics. Diagnosis and treatment of orthopedic diseases in an outpatient setting.	PD	UC	20	LO1 LO2 LO5
2	Traumatology and orthopedics in a hospital for adult-1	He develops knowledge and skills in managing patients with traumatological and orthopedic diseases, organizing trauma care for the population of the Republic of Kazakhstan at the pre-hospital stage, and providing basic care at the stages of medical evacuation. Surgical treatment methods in traumatology and orthopedics. Features of preoperative preparation of traumatological and orthopedic patients. Prevention of complications, prognosis. Clinical	PD	UC	48	LO1 LO4



		protocols of the Ministry of Health of the Republic of Kazakhstan on nosology.				
3	Traumatology and orthopedics in a hospital for adult-2	Modern diagnostic and therapeutic manipulations in stationary conditions. Microsurgical methods in traumatology and orthopedics. Arthrosis of large joints. Acute and chronic infectious toxic diseases of bones and joints. Highly qualified assistance in the diagnosis and treatment of traumatic and orthopedic diseases. Benign and malignant tumors of bones and joints. Pathological fractures.	PD	UC	68	LO1 LO2 LO3
4	Traumatology and orthopedics in a hospital for adult-3	Methods of prevention and rehabilitation of patients with the most common orthopedic diseases and injuries. Management of patients in the postoperative period, features. Complications encountered in the postoperative period. Clinical protocols of the Ministry of Health of the Republic of Kazakhstan on nosologies. The principles of the rehabilitation centers.	PD	UC	8	LO3 LO5 LO6



		of operation of rehabilitation centers.				
5	Traumatology and orthopedics ambulatory- clinic children's	Organization of trauma care for children of the Republic of Kazakhstan at the prehospital stage. The concept of childhood injuries. Clinic, diagnosis, differential diagnosis of traumatological and orthopedic diseases on an outpatient basis. Methods of conservative treatment are most common in pediatric traumatology and orthopedics on an outpatient basis. Prevention of complications, prognosis. Skeletal dysplasia. Scoliosis. Flat valgus deformity of the feet. Epiphysiolysis.	PD	UC	26	LO1 LO2 LO4
6	Traumatology and orthopedics in a hospital for children	Modern diagnostic and therapeutic manipulations in stationary conditions used in children. Highly qualified assistance in the diagnosis and treatment of traumatic and orthopedic diseases in children. Fractures and dislocations most commonly seen in children. Prevention of complications, prognosis. Clinical protocols of the Ministry of Health of the Republic of Kazakhstan on nosologies.	PD	UC	30	LO1 LO2 LO3 LO4 LO5

		in total			200	
1	Innovative technologies in traumatology and orthopedics.	Modern diagnostic and therapeutic manipulations in stationary conditions. Modern technologies of treatment, prosthetics in traumatology and orthopedics, endovideo technology. Endoprosthetics, arthroscopy of large and small joints. The use of minimally invasive methods for stable fixation of bone fragments. Risks and complications.	PD	EC	2	LO3 LO5 LO6
2	Age peculiarities in traumatology and orthopedics	Damage to the upper (clavicle, humerus) and lower (thigh) limbs in children, including during childbirth. Features of "pathological" fractures in childhood and old age (geriarthria). The use of minimally invasive methods for stable fixation of bone fragments. Minimally invasive technologies for surgical treatment of funnel chest deformity and flat-valgus foot deformity in children.	PD	EC	2	LO1 LO2 LO5
3	Inpatient replacement		PD	EC	4	LO2 LO3



	technology in the diagnosis and treatment of trauma and orthopedic patients	Diagnostic manipulations and the volume of operational assistance in emergency rooms and clinics. Diagnosis and treatment of degenerative-dystrophic and inflammatory diseases of bones and joints on an outpatient basis. The tactics of a doctor in case of intergrown fractures and dislocations of bones of limbs.				<b>LO5</b>
4	Sports traumatology and orthopedics.	Diagnostic methods for sports injuries and diseases based on modern, specialized, instrumental and functional diagnostic studies. Types of sports injuries and rehabilitation methods for athletes. Doctor's tactics. Modern highly qualified help. Prevention of recurrence of injuries.	<b>PD</b>	<b>EC</b>		<b>LO2 LO5 LO6</b>
	<b>total</b>				<b>8</b>	
	<b>Total</b>				<b>208</b>	
	<b>Final certification</b>				<b>2</b>	
	<b>Total</b>				<b>210</b>	

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<p>Cathedra of Surgery, Oncology and Traumatology</p>		<p>71/14 ( )</p>
<p>Educational program 7R01125 «Traumatology-orthopedics (adults, children)»</p>		<p>17 page. from 12</p>

**Professional standard: «Traumatology-orthopedics (adults, children)»**

Profession card "7.2 Orthopedic traumatologist":	Mandatory labor functions:	1. Diagnosis of injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system
		2. Treatment of injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system
		3. Conducting medical examinations in relation to patients with persistent impairment of body functions caused by diseases of the musculoskeletal system, the consequences of injuries and burns
		4. Organization, implementation and monitoring of the effectiveness of measures aimed at preventing injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system and their complications
		5. Providing medical assistance to the population in emergency situations, epidemics, and in mass destruction centers
		6. Participation in the management of medical documentation, medical and statistical information.
	Additional labor functions:	1. Continuous professional development
Labor function 1:  Diagnosis of injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system	Skill 1:  Examination of patients (adults, children) with injuries of the musculoskeletal system, diseases of the musculoskeletal system.	<b>Skills:</b> 1. To collect a complete medical history of patients and parents of children with musculoskeletal injuries and diseases of the musculoskeletal system. 2. To conduct a physical examination of patients with musculoskeletal injuries and diseases of the musculoskeletal system. 5. To collect biomaterial for cytological, bacteriological, biochemical, and immunological studies. 6. Diagnose injuries and burns of the soft tissues of the musculoskeletal system. 7. Diagnose dislocated joints. 8. Diagnose bone fractures.





		<p>9. Diagnose combined injuries of the musculoskeletal system.</p> <p>10. Diagnose combined injuries of the musculoskeletal system.</p> <p>11. Diagnose polytrauma.</p> <p>12. Diagnose congenital and acquired orthopedic diseases.</p> <p>13. Interpret the results of clinical laboratory and instrumental research methods.</p> <p>14. Interpret the results of clinical laboratory and instrumental research methods.</p> <p>15. Skills in diagnosis and differential diagnosis of the most common injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system, formulation of the diagnosis according to ICD-10 when the disease is detected.</p>
		<p><b>Knowledge:</b></p> <p>1. Knowledge of the features of collecting medical history of patients (adults, children) with musculoskeletal injuries and diseases of the musculoskeletal system.</p> <p>2. Knowledge of the examination algorithm for patients (adults, children) with musculoskeletal injuries and diseases of the musculoskeletal system.</p> <p>3. Knowledge of the normal, topographic and pathological anatomy of the neck, spinal column, shoulder girdle and shoulder, forearm, hand, pelvis, thigh, shin, foot and their features of blood supply, innervation and lymphatic system.</p> <p>4. Knowledge of the main symptoms and syndromes of musculoskeletal injuries, congenital and acquired diseases of the musculoskeletal system.</p> <p>5. Knowledge of the basic clinical and laboratory studies of patients (adults, children) with injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system.</p> <p>6. Knowledge of the main types of instrumental research methods for patients (adults, children) with injuries of the musculoskeletal system, congenital, etc.</p> <p>7. Knowledge of the principle of oncological alertness.</p> <p>8. Etiology, pathogenesis, classification of the most common injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system.</p>
Labor function 2: Treatment of injuries of the musculoskeletal system, congenital and	Skill 1: Treatment of patients (adults, children) with injuries of the musculoskeletal system	<p><b>Skills:</b></p> <p>1. To evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition in patients (adults, children) with injuries of the</p>

<p> ONTUSTIK-KAZAKHSTAN  MEDISINA  AKADEMIASY  «Оңтүстік Қазақстан медицина академиясы» АҚ </p>			<p> SOUTH KAZAKHSTAN  MEDICAL  ACADEMY  АО «Южно-Казахстанская медицинская академия» </p>
Cathedra of Surgery, Oncology and Traumatology		71/14 ( )	
Educational program 7R01125 «Traumatology-orthopedics (adults, children)»		17 page. from 14	
acquired diseases of the musculoskeletal system	and diseases of the musculoskeletal system.	<p>musculoskeletal system, diseases of the musculoskeletal system.</p> <ol style="list-style-type: none"> <li>2. Choose a method of anesthesia and a drug during a traumatic intervention.</li> <li>3. Perform local anesthesia, including conduction anesthesia under ultrasound control.</li> <li>4. Apply an epicystostomy under ultrasound control.</li> <li>5. Perform therapeutic manipulations and surgical interventions for patients with injuries of the musculoskeletal system, diseases of the musculoskeletal system</li> <li>6. Prescribe and select prosthetic and orthopedic products for patients with injuries of the musculoskeletal system, burn lesions and diseases of the musculoskeletal system (headscarf, corset, orthopedic shoes, splint, brace, prosthesis and others).</li> <li>7. Monitor the disease and the patient's condition, adjust the treatment plan depending on the characteristics of the course.</li> <li>8. Skills in assessing indications for emergency hospitalization in specialized hospital units.</li> <li>9. To predict the course of the pathological process in traumatology and orthopedics.</li> <li>10. Skills of conservative treatment of rare pathological conditions in traumatology and orthopedics.</li> <li>11. Apply an immobilizing bandage (headscarf, corset, orthopedic shoes, splint, brace, prosthesis, and others).</li> <li>12. Apply a plaster cast.</li> <li>13. To correct dislocation of a joint.</li> <li>14. Perform joint puncture under ultrasound control.</li> <li>15. Perform primary surgical treatment of the wound.</li> <li>16. To prepare the patient for surgical intervention in case of injuries and diseases of the musculoskeletal system.</li> <li>17. Apply external fixation devices to stabilize the fragments.</li> <li>18. Perform extramedullary and intramedullary osteosynthesis.</li> <li>19. Perform bone compression and distraction osteosynthesis.</li> </ol> <p><b>Knowledge:</b></p> <ol style="list-style-type: none"> <li>1. Knowledge of medicines, medical devices and therapeutic nutrition for patients (adults, children) with injuries of the musculoskeletal system, diseases of the musculoskeletal system in accordance with current clinical recommendations (protocols).</li> <li>2. Knowledge of methods of local anesthesia, including under the supervision of ultrasound.</li> </ol>	






		<p>3. Knowledge of the standards of specialized medical care for injuries of the musculoskeletal system, burn injuries and diseases of the musculoskeletal system.</p> <p>4. Knowledge of the principles and stages of applying an immobilizing bandage (headscarf, corset, orthopedic shoes, splint, brace, prosthesis, and others).</p> <p>5. Knowledge of the principles of manufacturing and applying a plaster cast.</p> <p>6. Knowledge of the principles and stages of joint dislocation correction.</p> <p>7. Knowledge of the principles and sequence of primary surgical treatment of wounds.</p> <p>8. Knowledge of joint puncture technique under ultrasound control.</p> <p>9. Knowledge of the basics of debris stabilization.</p> <p>10. Knowledge of closed and open repo techniques</p>
<p>Labor function 4:</p> <p>Organization, implementation and monitoring of the effectiveness of measures aimed at preventing injuries of the musculoskeletal system, congenital and acquired diseases of the musculoskeletal system and their complications</p>	<p>Skill 1:</p> <p>Promotion of a healthy lifestyle, prevention of injuries, diseases of the musculoskeletal system</p>	<p><b>Skills:</b></p> <p>1. To develop and implement measures for the sanitary and hygienic education of the population aimed at the formation of a healthy lifestyle and the prevention of injuries, diseases of the musculoskeletal system.</p> <p>2. Possess the skills of organizing and operating a "school" for patients with injuries and diseases of the musculoskeletal system (school of health).</p> <p><b>Knowledge:</b></p> <p>1. Principles of injury prevention, diseases of the musculoskeletal system.</p> <p>2. Forms and methods of sanitary and educational work on the formation of a healthy lifestyle.</p>
<p>Labor function 5:</p> <p>Providing medical care to the population in emergency situations, epidemics, and in mass destruction centers</p>	<p>Skill 1:</p> <p>Providing medical care to the population in emergency situations, epidemics, and in mass destruction centers</p>	<p><b>Skills:</b></p> <p>1. To carry out medical evacuation measures to provide medical assistance in emergency situations.</p> <p>2. Determine the type and scope of medical care provided to victims in emergency situations, depending on the medical situation.</p> <p>3. To carry out simple medical procedures for victims in emergency situations.</p> <p>4. Apply modern methods and means to protect the public, patients, medical personnel and medical property from damaging factors in emergency situations.</p> <p>5. Choose ways to protect against the damaging factors of natural and anthropogenic disasters.</p> <p>6. Use modern personal protective equipment: medical personal protective equipment against toxic chemicals, biological agents, radioactive substances.</p> <p>7. To carry out sanitary and hygienic and anti-epidemic measures as part of disaster formations and institutions</p>

		<b>Knowledge:</b> <ol style="list-style-type: none"> <li>1. Knowledge of the basics of medical evacuation measures to provide medical care in emergency situations.</li> <li>2. Knowledge of the basics of medical care for victims in emergency situations.</li> <li>3. Knowledge of the types and means of protecting the population from damaging factors in emergency situations.</li> <li>4. Knowledge of ways to protect against the damaging factors of natural and anthropogenic disasters.</li> </ol>
<p>Labor function 6:</p> <p>Participation in the management of medical documentation, medical and statistical information</p>	<p>Skill 1:</p> <p>Maintaining medical records, analyzing medical and statistical information, in accordance with the requirements of regulatory legal acts in the field of</p>	<b>Skills:</b> <ol style="list-style-type: none"> <li>1. Plan your work and compile a report analyzing your own performance indicators.</li> <li>2. Maintain medical records, including in electronic form, and monitor the quality of its management.</li> <li>3. To analyze the medical and statistical indicators of the work of the specialized medical department.</li> <li>4. Use patients' personal data and information in accordance with the law.</li> <li>5. Use information systems in accordance with the established procedure.</li> </ol> <b>Knowledge:</b> <ol style="list-style-type: none"> <li>1. Order of the Acting Minister of Health of the Republic of Kazakhstan dated October 30, 2020 No. KR DSM-175/2020 "On approval of Accounting Documentation forms in the field of healthcare, as well as instructions for completing them (registered with the Ministry of Justice of the Republic of Kazakhstan on November 4, 2020 No. 21579).</li> <li>2. Order of the Minister of Health of the Republic of Kazakhstan dated December 22 2020 No. KR DSM-313/2020 "On approval of reporting forms in the field of healthcare" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 23, 2020 No. 21879).</li> <li>3. Order of the Minister of Health of the Republic of Kazakhstan dated December 10, 2020 No. KR DSM-244/2020 "On approval of the Rules for maintaining primary medical records and submitting reports" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 11, 2020, No. 21761).</li> <li>4. Electronic accounting and documentation systems.</li> <li>5. Confidentiality of patients' medical information.</li> <li>6. Fundamentals of medical statistics.</li> </ol>
<p>Personal competence requirements:</p>	<p>Empathy</p> <p>Communication skills</p> <p>Tolerance and respect</p> <p>Collaboration and teamwork</p> <p>Stress resistance</p> <p>Reflection and introspection</p>	



ONTÜSTIK-KAZAGSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Cathedra of Surgery, Oncology and Traumatology		71/14 ( )
Educational program 7R01125 «Traumatology-orthopedics (adults, children)»		17 page. from 17
	Compliance with professional ethics Openness and willingness to learn Activity and initiative Striving for professional development	

Head of the educational and methodological center



**B.Z.Doltayeva**