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Approved by the Resolution of the  
Board of Directors  
of the NJSC



**JOINT EDUCATIONAL PROGRAM**

**6B10127 "Medicine"**

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Developed in accordance with the State Mandatory Standard and Typical Professional Educational Programs for Medical and Pharmaceutical Specialties

Discussed at the meeting of the EPC Medicine  
Protocol № 9 dated "30" June 2025

Chairperson *Rees* Kulzhanova Sh.A.

Approved at the meeting of the Academic Council  
Protocol № 7/1 dated "21" July 2025

Chairperson *Zhunusova* Zhunusova A.B.

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### EDUCATIONAL PROGRAM PASSPORT

Qualification Level in the National Qualifications Framework	Level 7
Higher Education Profile	Healthcare
Educational Program Code	6B10127
Code and Title of the Educational Program	Joint Educational Program "Medicine"
Partner University	Nazarbayev University
Program Duration	September 2025 – July 2031
Language of Instruction	English
Number of Credits	373
Mission of the Educational Program	"Training a new generation of specialists through the integration of education, science, and practice within a joint educational program, focused on modern international approaches and ensuring high graduate competitiveness."
Goal of the Educational Program	"Training a specialist ready for professional medical practice, equipped with research skills, and capable of making decisions based on the principles of evidence-based medicine in the diagnosis, treatment, rehabilitation, and prevention of diseases and emergency conditions."
Accreditation and Certification of the Educational Program	No
Requirements for the Prior Educational Level of Individuals Wishing to Undertake the Educational Program	General secondary education, technical and vocational education, post-secondary medical education, or higher education
<b>Graduate Qualification Profile</b>	
Academic Degree	Master of Medicine in the Educational Program "Medicine", Certificate of Completion of Internship with the Qualification "Physician", (Bachelor in Healthcare)
List of Specialist Positions	Potential employers of graduates of the educational program include

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	representatives of all sectors of healthcare in the Republic of Kazakhstan.
Field of Professional Activity	Healthcare and Social Protection
Object of Professional Activity	Healthcare organizations and their structural subdivisions; Emergency medical service stations; Republican healthcare organizations engaged in ensuring sanitary and epidemiological well-being of the population; Organizations of restorative treatment and medical rehabilitation; Healthcare organizations operating in the field of blood services and others.

## **1. GENERAL DESCRIPTION OF THE PROGRAM**

The quality of the healthcare system and its effective functioning directly depend on the quality of basic medical education, which requires continuous development, international academic integration, and the use of modern educational approaches. The medical profession demands a deep mastery of fundamental biomedical disciplines that provide an understanding of vital processes in the human body, the mechanisms of disease development, and the principles of their diagnosis and treatment. Knowledge in the natural sciences forms the foundation for understanding the functioning of diagnostic and pharmacological methods and their impact on the body.

Key conditions for successful medical practice include well-developed clinical reasoning, strong communication skills, social responsibility, and commitment to professional and ethical values. Equally important is a physician's readiness to utilize modern medical technologies and innovations, as well as to engage in continuous professional development throughout their career.

This educational program implements the university's mission and is delivered in academic partnership with Nazarbayev University, ensuring the integration of best educational practices and modern scientific and educational approaches.

Instruction is conducted in English, providing students access to contemporary scientific literature, international clinical guidelines, and global professional experience.

The program has been developed in accordance with national requirements for medical education and is aligned with widely accepted international approaches to physician training, ensuring the preparation of competitive specialists for both the public and private healthcare sectors.

## 2. GRADUATE COMPETENCIES

### General Competencies of Graduates of the Joint Educational Program "Medicine"

№	General Competencies	№ C	Learning Program Outcomes Graduates will be able to:
1	Medical Knowledge	LO-1	Applies integrated knowledge of the structure, biochemical, and physiological properties of the morphofunctional unit and the organism as a whole in both normal and pathological conditions.
2	Communication	LO-2	Demonstrates communication skills for exchanging information and interacting with patients, their families, and healthcare professionals in the state language, English, and Russian.

### Professional Competencies

№	Specialized Competencies	№ C	Program Learning Outcomes Graduates will be able to:
1	Clinical Skills	LO-3	Able to interpret the results of laboratory and instrumental diagnostic methods to establish a diagnosis based on evidence-based medicine.
		LO-4	Applies advanced skills in differential diagnosis and treatment using the principles of evidence-based medicine and scientific research practice.
		LO-5	Provides prevention and rehabilitation at the outpatient level and delivers emergency care.
2	Regulatory and Legal Knowledge	LO-7	Demonstrates skills in maintaining medical documentation in accordance with current regulatory and legal frameworks, medical information systems, and electronic healthcare."
3	Professionalism	LO-6	Demonstrates effective teamwork while adhering to the ethical principles of interprofessional collaboration.
4	Research	LO-8	Plans and conducts scientific research and applies it in making clinical decisions.
5	Personal and Professional Development	LO-9	Applies the capabilities and advancements of information technologies and AI in clinical practice, research, and lifelong learning.

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### 3.Learning Outcomes of Graduates of the SOP 'Medicine

<b>№</b>	<b>Course code</b>	<b>Learning Outcomes</b>
1	<b>LO1</b>	Applies integrated knowledge of the structure, biochemical, and physiological properties of the morphofunctional unit and the organism as a whole in both normal and pathological conditions.
2	<b>LO2</b>	Demonstrates communication skills for exchanging information and interacting with patients, their families, and healthcare professionals in the state language, English, and Russian.
3	<b>LO3</b>	Exhibits effective communication skills for information exchange and interaction with patients, their families, and healthcare professionals in the official language, English, and Russian."
4	<b>LO4</b>	Applies advanced skills in differential diagnosis and treatment using the principles of evidence-based medicine and scientific research practice.
5	<b>LO5</b>	Provides prevention and rehabilitation at the outpatient level and delivers emergency care.
6	<b>LO6</b>	Demonstrates effective teamwork while adhering to the ethical principles of interprofessional collaboration.
7	<b>LO7</b>	Demonstrates skills in maintaining medical documentation in accordance with current regulatory and legal frameworks, medical information systems, and electronic healthcare.
8	<b>LO8</b>	Plans and conducts scientific research and applies it in clinical decision-making.
9	<b>LO9</b>	Applies the capabilities and advancements of information technologies and AI in clinical practice, scientific research, and lifelong learning.

#### 4 INFORMATION ABOUT DISCIPLINES

No.	Name of the discipline	Brief summary of the course	Cycle, component	Loans	RO-1	RO-2	RO-3	RO-4	RO-5	RO-6	RO-7	RO-8	RO-9
1	History of Kazakhstan	This course focuses on the history of Kazakhstan from ancient times to the modern period. The main goal of the course is to develop a scientifically grounded understanding of the patterns of Kazakhstan's historical development based on a comprehensive and objective analysis of the ethnogenesis of the Kazakh people, as well as the evolution of statehood and civilizational development in the Great Steppe.	GED RC	5						+			
2	Philosophy	This course develops knowledge in the philosophical foundations of scientific knowledge and the ideological and ethical principles of professional activity. It addresses issues of physician responsibility, bioethics, the value foundations of medicine, and scientific thinking. Mastery of this course provides the foundation for critically evaluating professional and scientific decisions.	GED RC	5						+			+
3	Foreign Language - English (WCS Rhetoric and Academic Writing)	This course develops knowledge and skills in professional and academic communication in English. Students master working with scientific medical sources, academic writing, and oral professional communication. This course prepares students to use evidence-based	GED RC	8		+						+	+



























		protection, and healthcare management. Mastering this course ensures consideration of population and environmental factors in medical practice.																	
53	Forensic medicine	This course develops knowledge in the field of forensic medical examination, including the morphogenesis of forensic examination objects and the medical and legal aspects of death certification. It addresses issues of establishing the age and sequence of injuries, the cause of death, and the fundamentals of forensic medical examination methods. Mastering this course ensures an understanding of the rights and responsibilities of physicians when participating in investigative and judicial proceedings and compliance with professional regulatory requirements.	SC UC	3		+						+		+					
54	Obstetrics and gynecology	This course develops knowledge and skills in pregnancy management, obstetrics, and the clinical assessment of female reproductive system diseases. It addresses the diagnosis, treatment, and prevention of common gynecological and obstetric conditions, as well as the rationale for clinical management in accordance with clinical guidelines. Mastery of this course ensures the development of clinical judgment, professional responsibility, communication skills, and informed decision-making within the framework of evidence-based medicine.	SC UC	8		+	+	+	+	+	+	+		+					
55	Pediatrics	This course develops knowledge and skills in the differential diagnosis, treatment, and management of the most common neonatal and childhood diseases. It examines age-specific clinical manifestations, the choice of treatment strategies, and the rationale for treatment decisions in accordance with clinical guidelines. Mastery of this course promotes clinical judgment, professional	SC UC	9		+	+	+	+	+	+	+		+					







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	digital tools and information technology in the preparation of scientific texts. Mastery of this course provides the ability to engage in scientific communication, adhere to the principles of academic integrity, and apply research results in professional activities.	SC EC	4								
62	Elective-Antibiotic Therapy and Antibiotic Resistance	This course develops knowledge and skills in the rational use of antibacterial drugs. It examines the mechanisms of antibiotic action, the causes and consequences of antibiotic resistance, and the principles of choosing antimicrobial therapy and preventing resistance in accordance with clinical guidelines. Mastery of this course ensures the rationale for antibacterial therapy and the responsible use of medications in clinical practice.	SC EC	4							
63	Elective - Writing and Publishing Research Papers	This course develops skills in preparing, formatting, and publishing scientific papers in the field of medicine. It covers the structure of scientific articles, journal requirements, principles of academic writing, working with sources, and maintaining academic integrity. Mastering this course ensures effective scientific communication and presentation of research results.	SC EC	4							
64	PP: Assistant to a physician in the therapeutic field	Internships develop skills in the diagnosis, treatment, and prevention of general medical conditions under the guidance of a physician. During the internship, clinical information is collected, laboratory and instrumental data are interpreted, individual elements of diagnostic and treatment procedures are performed, and medical documentation is maintained. The internship reinforces clinical knowledge and professional responsibility.	SC	2							
65	PP: Assistant to a pediatric physician	The practical training develops skills in providing medical care to children of various age groups under the supervision of a physician. The practical training	SC	2							

		includes clinical assessment of the child's condition, participation in the diagnosis, treatment, and prevention of the most common childhood illnesses, and interaction with patients and their legal representatives. The practical training ensures that age-appropriate characteristics are taken into account and the physician's professional and communication skills are developed.																	
66	Clinical practice in intensive care and emergency medicine	Clinical internships develop knowledge and skills in providing emergency and intensive care to patients with acute and life-threatening conditions. During internships, students clinically assess the severity of their condition, participate in diagnosis, select and implement treatment strategies, monitor vital signs, and provide emergency medical care in accordance with clinical protocols. This internship develops clinical judgment, professional communication, teamwork, adherence to ethical and legal standards, and physician responsibility when providing medical care in critical situations.	SC UC	4	+	+	+	+	+	+	+								
67	Family medicine	This course develops knowledge and skills in the professional activities of family physicians at the primary health care level. It addresses issues of providing medical care to children and adults, early diagnosis, treatment, prevention, and follow-up of the most common diseases. Mastery of this course ensures the rationale for clinical tactics, effective interaction with patients and the medical team, adherence to professional and ethical standards, medical record keeping, and the use of medical information systems in family physician practice.	SC UC	12	+	+	+	+	+	+	+								
68	Clinical practice in internal medicine	This course develops the knowledge and skills necessary to perform the functions of a physician assistant in outpatient and inpatient settings. It addresses issues of clinical assessment, diagnosis, treatment, prevention, and	SC UC	11	+	+	+	+	+	+	+								

		<p>follow-up of patients with the most common medical conditions. Mastery of this course ensures the development of clinical reasoning, professional communication, teamwork, adherence to ethical and legal standards, and physician responsibility in providing medical care.</p>																		
69	Clinical practice in surgery	<p>This course develops the knowledge and skills necessary to perform the functions of a surgical assistant in outpatient and inpatient settings. It addresses issues of clinical assessment, diagnosis, treatment, and prevention of surgical diseases, as well as participation in preoperative preparation, surgical interventions, postoperative patient care, and emergency medical care. Mastery of this course ensures the development of clinical reasoning, professional communication, teamwork, adherence to ethical and legal standards, and physician responsibility in the provision of medical care.</p>	SC UC	7			+	+	+	+	+	+	+	+						
70	Clinical practice in obstetrics and gynecology	<p>This course develops the knowledge and skills necessary to perform the functions of an obstetrician-gynecologist assistant in outpatient and inpatient settings. It addresses the diagnosis, treatment, prevention, and follow-up of women of childbearing age, as well as the management of normal and abnormal pregnancies, obstetrics, and emergency obstetrics and gynecology. Mastery of this course ensures the development of clinical judgment, professional communication, adherence to ethical and legal standards, and physician responsibility in providing medical care.</p>	SC UC	7			+	+	+	+	+	+	+	+						
71	Clinical practice in pediatrics	<p>This course develops the knowledge and skills necessary to perform the functions of a pediatric physician assistant in outpatient and inpatient settings. It addresses issues of clinical assessment, diagnosis, treatment, prevention, and</p>	SC UC	7			+	+	+	+	+	+	+	+						



	<p>Follow-up of children with acute and chronic illnesses, including participation in preventive examinations, vaccinations, and emergency medical care. Mastery of this course promotes clinical judgment, professional communication with children and their legal guardians, teamwork, adherence to ethical and legal standards, and physician responsibility in providing medical care.</p>											
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