

EDUCATIONAL PROGRAM

Educational program code:

8D10141

Name of the educational program:

Medicine

Level of the educational program:

Doctorate

Head of the Department of Neurology, psychiatry, rehabilitation and neurosurgery c.m.s., professor

Head of the Department of Surgery-2 d.m.s., Acting Professor

Chairman of the CEP «Medicine»

Protocol № 11 05 08 20 22 y.

professor

Approved by the Scientific Council

Vice-Rector by SCW

Protocol № 5a 08 08 20 22 y.

Approved by the Academic Council
Protocol № 15 08 08 20 22 y.

Abuova G. N. House

Zharkinbekova N. A.

Abdurakhmanov B. A.

Dosybaeva G. N.

Numashey B. K

OŃTÚSTIK QAZAQSTAN	SOUTH KAZAKHSTAN	
MEDISINA	SKMA MEDICAL	
AKADEMIASY	ACADEMY ACA	
«Оңтүстік Қазақстан медицина академиясы» АҚ	АО «Южно-Казахстанская медицинская академия»	
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Passport of the educational program

- 1. Mission of the educational program: Development of the national health care system through the training of competitive scientific and pedagogical personnel capable of generating ideas, demonstrating leadership, developing strategies and solving complex problems in the field of medical education, science and practice.
- 2. The purpose of the educational program: To train personnel for the scientific, pedagogical and/or professional field of activity, with the award of the degree of Doctor of Philosophy (PhD), who are able to make informed decisions through independent scientific research, the implementation of which will make a significant contribution to the development of medicine.
- 3. Rationale for the educational program: Need in the labor market: the educational program is focused on healthcare professionals who are able to conduct scientific research and implement organizational and management technologies to solve complex problems of protecting public health and developing an effective health care system in Kazakhstan.
 - 4. Professional standard on the basis of which the educational program has been developed: Regulatory documents for the development of an educational program
- Order of the Minister of Science and Higher Education of the Republic of Kazakhstan «On Approval of State Compulsory Standards of Higher and Postgraduate Education» dated July 20, 2022 No. 2.
- Order of the Minister of Health of the Republic of Kazakhstan «On Approval of State Compulsory Standards for the Levels of Education in the Field of Healthcare» dated July 4, 2022 No. KR DSM-63.
- Order of the Minister of Education and Science of the Republic of Kazakhstan «On Approval of the Rules for the Organization of the Educational Process on Credit Technology of Training in Higher and (or) Postgraduate Education Organizations» dated April 20, 2011 No. 152.
 - Law of the Republic of Kazakhstan «On Education» dated July 27, 2007 No. 319-III (as amended on 04.07.2022)
- Order of the Minister of Education and Science of the Republic of Kazakhstan «On Approval of the Model Rules for the Activities of Higher and Postgraduate Education Organizations» dated October 30, 2018 No. 595 (as amended on 29.12.2021)
- «Regulations on the Procedure and Procedures for the Development of Educational Programs» of JSC «SKMA» dated 29.05.2019.

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- Internal regulatory documents of JSC «SKMA»
- 5. The field of professional activity: Health care organizers, heads of state and non-state medical and non-medical institutions. Research activities in universities.
- 6. The object of professional activity: Organizations of health care management, organizations of health care and social security, organization of higher and postgraduate education, organization of science.

Types of professional activity:

- organizational and managerial;
- scientific and research activities.
- education (pedagogical)

General information

№	Characteristics of the EP	Data
1	Registration Number	8D10100017
2	Code and classification of the field of	8D10 Health care
	education	
3	Code and classification of the field of	8D101 Health care
	study	
4	Group of Educational Programs	D141 Medicine
5	Code, name of the educational	8D10141 Medicine
	program	
6	Type of EP	New EP
7	ISCED level	8
8	NQF level	8
9	IQF Level	8
10	Distinctive features of the EP	No
	Partner University (JEP)	-
	Partner University (DDEP)	-

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11	List of competencies	Key competencies of the graduate of the program:			
11	List of competencies	KC1 Health Care Methods.			
		KC2 Population health and its physical, radiological, chemical and biological-			
		environmental determinants.			
		KC3 Health promotion: health education, health protection and disease			
		prevention.			
		KC4 Ethics.			
12	Learning Outcomes	LO1 Uses a special knowledge to critically analyze, evaluate, and synthesize new,			
		complex ideas that are at the very forefront position in public health service.			
		LO2 Able to conduct independent research and can work for a scientific result,			
		has a sustained interest in developing of new ideas and projects which will lead to			
		appearance of the new technologies in the health care area.			
		LO3 Generates ideas, predicts the results of innovation, cooperates in promotion			
		in academic and professional context of technological, social or knowledge based			
		cultural development of society.			
		LO4 Demonstrates self-awareness skills, commitment to learning throughout life			
		and experience for teaching at the level of higher and postgraduate education.			
		LO5 Participates in nuncupative or in writing professional discussions, publishes			
		research results in international academic publications.			
		<u>-</u>			
		LO 6 Demonstrates a systematic understanding of public health service in the			
		field of its qualifications, have a grip on research methods used in this direction.			
		LO7 Demonstrates leadership qualities, innovativeness and independency in work			
		and study activities in new contexts that require the solution of problems linked by			
		many interrelated factors.			
		LO8 Capable to communicate on topics in his field of competence with equal			
		status person, with the broad scientific community and society in general.			

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SOUTH KAZAKHSTAN

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13	Form of study	In-person
14	Language of instruction	Kazakh, Russian
15	Amount of loans	180
16	Degree Awarded	Doctor of Philosophy (PhD) in the educational program 8D10141 «Medicine»
17	Duration of training	3 years
18	Availability of an appendix to the	KZ36LAA00011387 (020)
	license for the direction of personnel	
	training	
19	Availability of EP accreditation	Yes
	Availability of EP accreditation	Independent Agency for Accreditation and Rating (IAAR)
	Accreditation Certificate No.,	№AB 3518, 27.05.20221y. – 26.05.2026y.
	Accreditation Validity Period	
20	Information about disciplines	Annex 1.2

OŃTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ОНТҮСТІК ҚАЗАҚСТАН МЕДИЦИНА АКАДЕМІЯТАН АСАДЕМУ АО «Южно-Казахстанск	кая медицинская академия»
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Annex 1

Matrix of correlation of learning outcomes in the educational program as a whole with the competencies being formed

					- 			
	LO1	LO2	LO3	LO4	LO5	LO6	LO	LO8
KC1								
KC2								
KC3								
KC4								

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Annex 1.2

Competency attainability/learning outcomes matrix

№	Name of discipline	A brief description of the discipline	(BD, PD)	Compo nent (UC, OC)	Number of credits	Generated LO (codes)
The	e cycle of basic discipl	ines			23	
	1-N	Iodule: (Modern educational technologies and statistical n	nethods	of analysis	s)	
1	Biostatistics (advanced course)	Elements of measurement theory. Methods of comparison and analysis of statistical aggregates. Nonparametric test. Method of standardization, its meaning and application. Statistical packages SPSS, SAS, Stata using computer statistical programs. Statistics on the health of the population. Statistics of the health system. Development and application of statistical methods for planning and analysis of biomedical research. Modeling opportunities in health care.		UC	4	LO1 LO6
		Optional component				
2	Educational technologies in universities	Normative legal acts of the education system. The concept and essence of educational technologies. Classification of educational technologies. Types and forms of educational technologies. Methods and principles of organizing education in higher education. Innovative teaching methods in higher education. Distance learning		OC	4	LO4 LO7 LO8

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		technologies. Pedagogical taxonomies. Features of				
		educational technologies in the training of medical				
		personnel.				
3	Epidemiological and clinical-genetic analysis of Parkinson's disease, Huntington's chorea, ataxia and dystonia	disease, Huntington's chorea, ataxia and dystonia. Epidemiological features and processing of data analysis of epidemiological studies in Parkinson's disease, Huntington's chorea, ataxia and dystonia. Optimization of the organization of the system of therapeutic and preventive care for patients with Parkinson's disease and other motor disorders. DNA analysis of the role of trinucleotide repeats and LRRK2 G2019S in the	BD	OC	4	LO1 LO3 LO6 LO7
4	D 11 C	development of movement disorders.	DD	0.0	4	1.01
4	Problems of childhood infections	Particularity of the organization of assistance to the child population in infectious diseases. Using of special knowledge for the critical analysis, evaluation and synthesis of the algorithm for differential diagnosis, classification, tactics of treatment, rehabilitation and prevention of infectious diseases in children. Intensive care for emergency conditions as recommended by WHO. Skills and research methods used in the quarantine activities in children's institutions.	BD	OC	4	LO1 LO3 LO7
5	Teaching practice	Develops and organizes classes with undergraduates (students) (at least 10 classes). Participates in and analyzes the training sessions conducted by the teachers of the department. Participates and analyzes scientific and	BD	UC	10	LO4

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methodological seminars and conferences. Conducts practical activities with students in a scientific circle. Compiles articles of scientific and methodological nature. Prepares a report on scientific and pedagogical practice. Cycle of profile disciplines Fundamentals of national and international law in the field Modern methods PD UC LO4 4 and principles of of scientific research. The order and principles of ethical LO₅ scientific research regulation of research in the field of health. Conducting LO₆ scientific and research programs by funding sources. LO7 Search and attraction of grants from domestic and foreign donor funds. Writing research projects and preparing grant applications. Ethics of science, or scientific ethics, covers the moral Ethics in scientific PD UC LO₃ 4 aspect of the activity of a scientist and science as a public LO4 activity institution. Its content is primarily determined by the specifics and social purpose of the scientific activity itself, which consists in producing knowledge. **Optional component** Communication in science. Types and forms of Scientific PD OC4 LO₅ professional communication in the scientific community. communication: oral LO8 Means of information exchange and communication. and written Dialogue in the scientific community. Scientific discussion concept. Rules for conducting a scientific discussion. Types of written communication. Forms of scientific publications in the field of health care. Formation of the structure of a scientific article and thesis.

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		Review procedure.				
9	Surgery of biliopancreatoduode nal zone	Medical and social significance of the problem of diseases of the biliopancreatoduodenal zone. Causal relationships of liver, pancreas and extrahepatic bile ducts. Highly qualified approach to the prevention and treatment of biliopancreatoduodenal diseases zone based on the assessment of evidence-based data.	PD	OC	4	LO1 LO4 LO6
10	Zonotic infections	Critical analysis, assessment and synthesis of changes from various systems and organs, severity criteria. Diagnostic. Differential diagnosis. Treatment. Indications for hospitalization. Rehabilitation. Prevention. Curative measure in the foci of infection. Publication of research results in the field of zoonotic infections.	PD	OC	4	LO1 LO5
11	Atrophy of the brain and spinal cord in multiple sclerosis	Dynamic and comparative epidemiological studies of brain neurodegenerative processes in multiple sclerosis. Methods for diagnosing atrophy of the brain and spinal cord: postprocessing image processing, calculating the volume of the anatomical structures of the brain (morphomitria). Correlation of the volume of the cortex with the assessment of ventricular volumes and neurological disorders. Optimization of the use of atrophy parameters as a tool for assessing the effectiveness of therapy.	PD	OC	4	LO1 LO5 LO6
12	Post-stroke neuropsychiatric disorders	Epidemiology of post-stroke neuropsychiatric disorders. Clinical neuroimaging correlations in post-stroke cognitive impairment. The mechanism of development of	PD	OC	4	LO6 LO7 LO8

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		post-stroke neuropsychiatric disorders.				
		Neuropsychological profile in patients with cognitive				
		defect, in patients after stroke. General principles of				
		neuropsychological rehabilitation in patients with post-				
		stroke neuropsychiatric disorders.				
	3-Module: (Manage	ment of scientific research and scientific projects and ethi	cal princ	ciples of s	cientific re	search)
		Optional component				
13	Project management	The discipline «project management» is a methodology	PD	OC	5	LO1
		for achieving success using modern scientific methods to				LO2
		achieve optimal results in terms of cost, time and quality,				
		as well as meeting the interests of all project participants.				
		In other words, the art of leadership in coordinating the				
		efforts of people and using resources.				
14	Emergency	Conduct independent research and work on the scientific	PD	OC	5	LO2
	conditions in the	result in various types of shocks. Causative agents of				LO5
	practice of	infectious diseases, which causing the development of				LO6
	infectious diseases	shock. Infectious diseases in which shock most often				
		develops. Pathogenetic stages in emergency conditions.				
		Clinical stages of emergency situations. Clinical				
		symptoms of various stages of shock. Publication of				
		research results on the treatment of shock states.				
15	Ischemic stroke at a	Epidemiological features of stroke at a young age in the	PD	OC	5	LO1
	young age	southern region of Kazakhstan. Verification of the				LO6
		diagnosis using CT and MRI in young people.				LO8
		Stratification of causes of stroke in accordance with the				
		recommendations of TOAST.				

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16	Clinical and	Analysis of the quality of life of patients with facial pain.	PD	OC	5	LO1
	electrophysiological	Clinical and psychological characteristics and quality of				LO5
	aspects of facial	life of patients with FP. Neurophysiological characteristics				LO6
	pain	of FP with using the registration of electroencephalogram				LO8
		(EEG) and evoked potentials (EP) of the brain, trigeminal				
		and skin sympathetic potentials of the brain. Comparative				
		physiologic patterns of FP and trigeminal neuralgia.				
17	Neuropsychological	Comparative evaluation of the characteristics of affective	PD	OC	5	LO1
	Disorders in the	and cognitive impairment in the early stage of Parkinson's				LO2
	Early Stage of	disease. The nature and severity of emotional and				
	Parkinson's Disease	affective disorders in the early stages of PD.				
		Neuropsychological testing to identify the level of				
		personal and reactive anxiety of depressive symptoms,				
		intellectual and mental disorders, analysis of the level of				
		motivation and assessment of quality of life.				
18	Research practice	Forms professional competencies necessary for	PD	UC	10	LO5
		independent scientific and practical activities. The				
		dissertation research uses modern methods of scientific				
		research, data processing and interpretation, consolidates				
		practical skills by studying the latest theoretical,				
		methodological and technological achievements of				
		domestic and foreign medical sciences.				
Res	search work				123	
19	Research work of a	Conducting independent research and working on	PD	OC	123	LO1 LO2
	doctoral student,	scientific results. Forecasting the results of innovation				LO3 LO4
	including an	activities. Analysis, evaluation and synthesis of new				LO5 LO6

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	internship and a	complex ideas. Publication of research results in		LO7 LO8
	doctoral dissertation	international academic publications.		
Fin	al examination		12	
20	Writing and	Assessment of learning outcomes and key competencies	12	LO1 LO2
	defending a doctoral	achieved upon completion of the study of the doctoral		LO3 LO4
	dissertation	program.		LO5 LO6
				LO7 LO8
	TOTAL		180	

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Annex 1.3

A matrix for achieving LO using various learning methods

A matrix for achieving LO using va		
LO	Teaching and lear	rning methods
LO1 Uses a special knowledge to critically analyze, evaluate, and	Conducting discussions on	Solving situational
synthesize new, complex ideas that are at the very forefront position in	current topics in healthcare,	problems, oral interview
public health service.	feedback from a doctoral	
	student	
LO2 Able to conduct independent research and can work for a scientific	Development and conduct of	Practical implementation of
result, has a sustained interest in developing of new ideas and projects	scientific research	research analysis in the
which will lead to appearance of the new technologies in the health care		field of healthcare
area.		
LO3 Generates ideas, predicts the results of innovation, cooperates in	Conducting seminars, working	Assignment for doctoral
promotion in academic and professional context of technological, social or	in groups for the technological,	students to independently
knowledge based cultural development of society.	social or cultural development	choose topics for research
	of society	
LO4 Demonstrates self-awareness skills, commitment to learning	Discussion of tasks for	Working in groups
throughout life and experience for teaching at the level of higher and	teamwork and case studies	
postgraduate education.		
LO5 Participates in nuncupative or in writing professional discussions,	Conducting seminars and	Solving situational
publishes research results in international academic publications.	discussions, feedback from the	problems, oral interview
	doctoral student	
LO6 Demonstrates a systematic understanding of public health service in	Publication in scientific	Writing abstracts, scientific
the field of its qualifications, have a grip on research methods used in this	publications	articles
direction.		Public appearances
LO7 Demonstrates leadership qualities, innovativeness and independency	Implementation of learning in	Solving situational
in work and study activities in new contexts that require the solution of	the process of solving problems	problems, oral interview
problems linked by many interrelated factors.	by delegating tasks to doctoral	

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	students with the assignment of leadership functions to them	
LO8 Capable to communicate on topics in his field of competence with	Conducting seminars and	Conducting communication
equal status person, with the broad scientific community and society in	discussions, feedback from the	skills, discussion
general.	doctoral student	

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Annex 1.4

The matrix of compliance of LO with assessment methods

LO	Assessment n	nethods
LO1 Uses a special knowledge to critically analyze, evaluate, and	Summary/presentation	Testing
synthesize new, complex ideas that are at the very forefront position in	• •	
public health service.		
LO2 Able to conduct independent research and can work for a scientific	Work control	Research activities
result, has a sustained interest in developing of new ideas and projects		
which will lead to appearance of the new technologies in the health care		
area.		
LO3 Generates ideas, predicts the results of innovation, cooperates in	Projects	Publications
promotion in academic and professional context of technological, social		
or knowledge based cultural development of society.		
LO4 Demonstrates self-awareness skills, commitment to learning	Self-assessment of one's own	Report
throughout life and experience for teaching at the level of higher and	knowledge, skills, and	
postgraduate education.	professional development	
LO5 Participates in nuncupative or in writing professional discussions,	Testing	Essay (short and long)
publishes research results in international academic publications.	Oral interview	The short answer is
LO6 Demonstrates a systematic understanding of public health service	Internship	Experience reports
in the field of its qualifications, have a grip on research methods used in		
this direction.		
LO7 Demonstrates leadership qualities, innovativeness and	Oral interview	Portfolio
independency in work and study activities in new contexts that require		
the solution of problems linked by many interrelated factors.		
LO8 Capable to communicate on topics in his field of competence with	Cases	Essay (short and long)
equal status person, with the broad scientific community and society in		
general.		

ACADEMY AO «Южно-Казахстанская медицинская академия»

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Work plan for the entire period of study ${\bf v}$

The cycle of disciplines		Discipline code	Name of the discipline	Amount of credits	General hours	Practical lesson	IWDT KWD	IWD IWD	1 year of study	2 year of study	3 year of study	Form of control
1	2	3	4	5	6	7	8	9	10	11	12	13
BD	UC/OC		BASIC DISCIPLINES	18	540	180	108	252	14	4		
	UC	•	Modern educational technologies and ethods of analysis)		120	40	24	= (
		D. D.	University component	4	120	40	24	56		4		Б
		D-Bios	Biostatistics (advanced course)	4	120	40	24	56	10	4		Exam
	TP		Teaching practice	10	300	100	60	140	10			Report
		D-ETUnv	Optional Component Educational technologies in universities	4	120 120	40	24 24	56 56	4			Exam
BD	OC	D-E1011V D-	Epidemiological and clinical-genetic	4	120	40	24	30	4			Exam
			analysis of Parkinson`s disease, Huntington's chorea, ataxia and dystonia	4	120	40	24	56	4			Exam
		D-PCHI	Problems of childhood infections	4	120	40	24	56	4			Exam
PD	UC/OC				810	270	162	378	18	9		
		2- Module: (written)	Methods of scientific research oral and									
	UC		University component	8	240	80	48	112	4	4		
PD		D-MRPSR	Modern methods and principles of scientific research	4	120	40	24	56	4			Exam
		D-ESA	Ethics in scientific activity	4	120	40	24	56		4		Exam
	OC		Optional Component	4	120	40	24	56	4			
		D-SC OW	Scientific communication: oral and written	4	120	40	24	56	4			Exam



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		D-SBZ	Surgery of biliopancreatoduodenal zone	4	120	40	24	56	4			Exam
		D-ZI	Zonotic infections	4	120	40	24	56	4			Exam
		D-ABSCMS	Atrophy of the brain and spinal cord in multiple sclerosis	4	120	40	24	56	4			Exam
		D-PSND	Post-stroke neuropsychiatric disorders	4	120	40	24	56	4			Exam
		scientific pr	Management of scientific research and ojects and ethical principles of scientific									
		research)		-	150	50	20	70		-		
		D. DM	Optional Component	5	150	50	30	70		5		Г
		D-PM	Project management	5	150	50	30	70		5		Exam
		D-ECPID	Emergency conditions in the practice of infectious diseases	5	150	50	30	70		5		Exam
		D-ISYA	Ischemic stroke at a young age	5	150	50	30	70		5		Exam
		D-CEAFP	Clinical and electrophysiological aspects of facial pain	5	150	50	30	70		5		Exam
		D-NDESPD	Neuropsychological Disorders in the Early Stage of Parkinson's Disease	5	150	50	30	70		5		Exam
	RP		Research practice	10	300	100	60	140	10			Report
R	RW		RESEARCH WORK	123	3690	1230	24	60	28	47	48	
				12	360	120	24	40	12			
		Research work of a doctoral student, including an internship and a doctoral dissertation		16	480	160	32	20	16			
DV	VDS			17	510	170	34	40		17		Donont
KV	W DS			30	900	300	60	00		30		Report
					900	300	60	00			30	
		18 540 180 360						18				
I	FE	FINAL EXAMINATION		12	360	120	24	40			12	
WI	WDDD Writing and defending a doctoral dissertation		defending a doctoral dissertation	12	360	120	24	40			12	
	TOTAL				5400	1800	36	00	60	60	60	