

ONTÜSTIK QAZAQSTAN
MEDISINA
AKADEMIASY
«Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY
АО «Южно-Казахстанская медицинская академия»



EDUCATION PROGRAM

Educational program code: 7M10101
Name of the educational program: Medicine
Level of the educational program: Master

Shymkent, 2022 y.



The educational program was developed by the members of the CEP:

Head of the Department of «Biology and Biochemistry», Ph.D., Professor

Yessirkepov M. M. *M. M. Yessirkepov*

Agreed with the employer:

General Director of «Mediker SK» LLP

Pozilov B. D. *B. D. Pozilov*

Deputy Head of the Department of Quality Control and Safety of Goods and Services of the Turkestan Region, Ph.D.

Akhmetov A. R. *A. R. Akhmetov*

Deputy Chief Physician of the Mental Health Center of the Shymkent City Health Care Institution, Ph.D.,

Erezhepov E. V. *E. V. Erezhepov*

Head of the Association of Private Clinics of the South Kazakhstan Region

Timoshenko M. G. *M. G. Timoshenko*

Chairman of the CEP «Medicine»

Protocol № 11 05 08 2022 y.

Dosybaeva G. N. *G. N. Dosybaeva*

Approved by the Scientific Council

Vice-Rector by SCW

Protocol № 5a 08 08 2022 y.

Nurmashev B. K. *B. K. Nurmashev*

Approved by the Academic Council

Protocol № 15 08 08 2022 y.



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Passport of the educational program

1. Mission of the educational program: To train Masters who have the skills of modern clinical research, are able to conduct in-depth expert and analytical research and make effective decisions in priority areas of the healthcare system.

2. Purpose of the educational program: To train masters with in-depth theoretical and practical knowledge in a specific field of medicine with the skills to conduct expert, analytical, research and project activities.

3. Rationale for the educational program: Demand 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 healthcare 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.
- 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. Health care organizers; heads of state and non-state medical and non-medical institutions.

6. The object of professional activity: Healthcare management organizations, healthcare and social security organizations, organizations of higher and postgraduate education; organizations of science.

Types of professional activity:

- organizational and managerial;
- scientific and research activities.

General information

№	Description of the EP	Data
1	Registration Number	7M10100146
2	Code and classification of the field of education	7M10 Health care
3	Code and classification of the field of study	7M101 Health care
4	Group of Educational Programs	M144 Medicine
5	Code, name of the educational program	7M10101 Medicine
6	Type of EP	Current EP
7	ISCED level	7
8	NQF level	7
9	IQF Level	7
10	Distinctive features of the EP	No
	Partner University (JEP)	-
	Partner University (DDEP)	-
11	List of competencies	Key competencies of the graduate of the program: KC1 Methods in health care. KC2 Population health and its physical, radiological, chemical and biological-

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		<p>environmental determinants.</p> <p>KC3 Health promotion: health education, health protection and disease prevention.</p> <p>KC4 Ethics.</p>
12	Learning Outcomes	<p>LO1 Able to acquire new knowledge and applied skills in research and professional activities in the field of medicine.</p> <p>LO2 Plans professional activities in his field of qualifications in the field of medicine, based on the modern achievements of science and practice.</p> <p>LO3 Demonstrates knowledge and understanding of the interdisciplinary nature of medical research.</p> <p>LO4 Uses scientific information to develop the field of medicine and introduce new approaches within the framework of his qualifications.</p> <p>LO5 Clearly and unambiguously communicates information, ideas, findings, problems and solutions to both specialists and non-specialists in their field of medical qualifications.</p> <p>LO6 Able to solve problems in the field of medicine within the framework of his qualifications based on scientific approaches.</p> <p>LO7 Is engaged in professional growth in the field of medicine, demonstrates the skills of introspection.</p>
13	Form of study	In-person
14	Language of instruction	Kazakh, Russian
15	Amount of loans	60
16	Degree Awarded	Master of public health in the educational program 7M10101 «Medicine»
17	Duration of training	1 year
18	Availability of an appendix to the license for the direction of personnel	KZ36LAA00011387 (018)

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	training	
19	Availability of EP accreditation	Yes
	Name of accreditation body	Independent Agency for Accreditation and Rating (IAAR)
	Accreditation Certificate No., Accreditation Validity Period	No. AB 3989, 10.06.2022 – 09.06.2027
20	Information about disciplines	Annex 1.2

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	LO7
KC1							
KC2							
KC3							
KC4							

Matrix of achievability of competencies/learning outcomes

№	Name of the discipline	A brief description of the discipline	Cycle (BD, PD)	Component (UC, OC)	Number of credits	Generated LO (codes)
The cycle of basic disciplines					10	
Mandatory / University component					6	
1	Management	Introduction to management: basic concepts. Functions, principles and elements of the management process. The evolution of management: the conditions and prerequisites for the emergence of management, school management. Features of Kazakhstan management. Integration processes in management. Management systems: functions and organizational structures. Planning, SWOT-analysis and forecasting in management. Management processes: goal-setting and assessment of the situation, making management decisions. Management mechanism.	BD	UC	2	LO1 LO2 LO6
2	Foreign language (professional)	Purpose of discipline: allows to develop communication skills in a foreign language, intercultural competencies and business correspondence skills. The main types reading original sources of foreign-language, preparation of written reports on scientific topics by specialty. Listen to lectures, messages containing professional information.	BD	UC	2	LO3 LO4 LO5

3	Psychology of management	Purpose of discipline: use knowledge of the basic provisions psychology of manage-ment. Approaches and principles of psychological science in professional work. Presentation of conclusions in the field of theoretical and practical psychology of management; scientific and theoretical worldviews on fundamental psychological concepts. Analysis of management processes. Application of the received knowledge in practice in management activities.	BD	UC	2	LO1 LO3 LO5
Optional Component (Module on current issues of clinical research)					4	
4	Modern clinical research methods	Advanced clinical methods and technologies for examining patients with major diseases of internal organs. Modern non-invasive and interventional methods for diagnosing diseases of internal organs based on the principles of evidence-based medicine and their importance in research activities. A systematic approach to the analysis of medical information, based on the principles of evidence-based medicine.	BD	OC	4	LO1 LO3 LO4
	Clinical and diagnostic laboratory diagnostics	Analysis of socially significant problems and processes. Methods of the humanities, natural sciences, biomedical and clinical sciences in various types of professional and social activities. Work with medical and technical equipment used in working with patients, possession of computer technology, obtaining information from various sources. Possibilities of modern information technologies for solving professional problems.	BD	OC	4	LO3 LO4

Cycle of profile disciplines					25	
University component (General professional module)					5	
6	Health Organization and Management	Control and functioning of health authorities. Separation of health functions at different levels of government. Problems of reforming health systems. Management Theory. Control systems. Management focused on specific tasks. Quality management system in health care. Strategic management of the health care system. Hospital as an organization. Models of the organization of medical institutions. New organizational models.	PD	UC	3	LO2 LO5 LO6
7	Clinical Epidemiology and Evidence-Based Medicine	Processing and analysis of epidemiological research data. Epidemiological aspects of screening. Causal relationships in epidemiology. Epidemiological examination. Terminology, tools and methods of evidence-based medicine. Basic statistical knowledge needed to interpret evidence-based medicine data. Methods of qualitative and quantitative research in evidence-based medicine. Randomized controlled trials. «Gold standard». Levels of evidence.	PD	UC	2	LO1 LO4 LO6
8	Industrial practice	Consolidation of theoretical knowledge acquired during the training process, acquisition of practical skills, competencies and experience in professional activities in public health, as well as development of best practices.	PD	UC	10	LO1
Optional Component (Module on current issues of clinical research)					10	
9	Interpretation of laboratory	Obtaining laboratory information, the ability to monitor the effectiveness of treatment of patients, the implementation of	PD	OC	5	LO4 LO5

	research methods	laboratory research methods based on modern laboratory technologies, effective clinical use of the results. Organization of work on the practical use and implementation of research results.				
10	Molecular biological and genetic laboratory diagnostics	Analysis of the regularities of the functioning of individual organs and systems. The main methods for assessing the functional state of the human body, the principles of testing the psychological properties of the human personality, understanding the aging processes of the body, the physiological characteristics of the aging body for more successful therapeutic and diagnostic activities. Selection of the type of diagnostics.	PD	OC	5	LO4 LO6
11	Actual issues of Biomedicine	Formation of a systematic understanding of the most pressing problems of modern biomedicine, their importance for society, and the effectiveness of measures taken to solve them. The use of modern technologies to solve topical issues of biomedicine, as well as research and production-technological tasks of professional activity, for the collection and analysis of biomedical information.	PD	OC	5	LO1 LO3 LO7
12	Healthcare Project Management	Project and project management. The process of building work on a project. Project development and planning. Project management methods and systems. Risk management in project management. Features of project management in the healthcare sector, including in the field of medical care and services based on service and social services.	PD	OC	5	LO2 LO6 LO7

Experimental research work					13	
13	Experimental research work of a student, including an internship and the implementation of a master's project	It is based on modern achievements of science, technology and production and contains specific practical recommendations and independent solutions to management problems. Performed using advanced information technologies; Contains experimental and research (methodological, practical) sections.			13	LO1 LO2 LO3 LO4 LO5 LO6 LO7
Final examination					12	
14	Design and defense of a master's project	Assessment of learning outcomes and key competencies achieved upon completion of the Master's degree program.			12	LO1 LO2 LO3 LO4 LO5 LO6 LO7
TOTAL					60	

A matrix for achieving LO using various learning methods

LO	Teaching and learning methods	
LO1 Able to acquire new knowledge and applied skills in research and professional activities in the field of medicine.	Lectures, seminars, analysis, regulation of pharmaceutical activities	Discussion of the results of the analysis, group work
LO2 Plans professional activities in his field of qualifications in the field of medicine, based on the modern achievements of science and practice.	Practical modeling	Analysis of the material, feedback from the undergraduate
LO3 Demonstrates knowledge and understanding of the interdisciplinary nature of medical research.	Case study, material analysis, feedback from the undergraduate	Discussion, group work
LO4 Uses scientific information to develop the field of medicine and introduce new approaches within the framework of his qualifications.	Participation in the discussion, answers to questions	Data analysis, strategy development and decision-making, working in small groups
LO5 Clearly and unambiguously communicates information, ideas, findings, problems and solutions to both specialists and non-specialists in their field of medical qualifications.	Material analysis, pharmaceutical activity analysis	Data analysis, practical tasks
LO6 Able to solve problems in the field of medicine within the framework of his qualifications based on scientific approaches.	Using interdisciplinary situations	Discussion, group assignments
LO7 Is engaged in professional growth in the field of medicine, demonstrates the skills of introspection.	Conducting research activities, publishing publications, club magazine	Participation in the discussion, answers to questions

The matrix of compliance of LO with assessment methods

LO	Assessment methods	
LO1 Able to acquire new knowledge and applied skills in research and professional activities in the field of medicine.	Portfolio	Testing Oral interview
LO2 Plans professional activities in his field of qualifications in the field of medicine, based on the modern achievements of science and practice.	Testing Oral interview	Preparation and provision of information at the appropriate level
LO3 Demonstrates knowledge and understanding of the interdisciplinary nature of medical research.	Presentation of the topic	Preparation and protection of the report
LO4 Uses scientific information to develop the field of medicine and introduce new approaches within the framework of his qualifications.	Self-assessment	Publications
LO5 Clearly and unambiguously communicates information, ideas, findings, problems and solutions to both specialists and non-specialists in their field of medical qualifications.	Oral response, oral survey	Essay (short and long)
LO6 Able to solve problems in the field of medicine within the framework of his qualifications based on scientific approaches.	Summary/presentation	Publications
LO7 Is engaged in professional growth in the field of medicine, demonstrates the skills of introspection.	Preparation of test and situational tasks	Oral response, oral survey

Work plan for the entire period of study

The cycle of disciplines		Discipline code	Name of the discipline	Amount of credits	General hours	Practical lesson	IWM		1 year of study	Form of control
							IWMT	IWM		
1	2	3	4	5	6	7	8	9	10	11
BD	UC/OC	BASIC DISCIPLINES		10	300	100	60	140	10	
BD	UC	University component (Interdisciplinary module)		6	180	60	36	84	6	
		M-Mened	Management	2	60	20	12	28	2	Exam
		M-FL	Foreign language (professional)	2	60	20	12	28	2	Exam
		M-PsM	Psychology of management	2	60	20	12	28	2	Exam
	OC	1) Optional Component (Module on current issues of clinical research)		4	120	40	24	56	4	
		M-MCRM	Modern clinical research methods	4	120	40	24	56	4	Exam
		M- CDLD	Clinical and diagnostic laboratory diagnostics	4	120	40	24	56	4	Exam
PD	UC/OC	PROFILE DISCIPLINES		25	750	250	150	350	25	
PD	UC	University component (General professional module)		5	150	50	30	70	5	
		M-HOM	Health organization and management	3	90	30	18	42	3	Exam
		M-CEEM	Clinical epidemiology and evidence-based medicine	2	60	20	12	28	2	Exam
		IP	Industrial practice	10	300	100	60	140	10	Report
	OC	1) Optional Component (Module on current issues of clinical research)		10	300	100	60	140	10	

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		M-ILRM	Interpretation of laboratory research methods	5	150	50	30	70	5	Exam
		M-MBGLD	Molecular biological and genetic laboratory diagnostics	5	150	50	30	70	5	Exam
		M-AIB	Actual issues of Biomedicine	5	150	50	30	70	5	Exam
		M-HPM	Healthcare project management	5	150	50	30	70	5	Exam
ERW		EXPERIMENTAL RESEARCH WORK		13	390	130	260		13	
ERWS		Experimental research work of a student, including an internship and the implementation of a master's project		5	150	50	100		5	Report
				8	240	80	160		8	
FE		FINAL EXAMINATION		12	360	120	240		12	
DDMP		Design and defense of a master's project		12	360	120	240		12	
TOTAL				60	1800	600	1200		60	