



"APPROVED"

Rector of the «SKMA»

Zh. Seitzhanova

2025



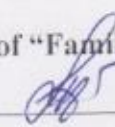
SOUTH KAZAKHSTAN
**MEDICAL
ACADEMY**

RESIDENTURE EDUCATIONAL PROGRAM

7R01139 « THERAPY »

Shymkent

Educational Program 7R01139 "Therapy" Developed by the Department of "Family Medicine"

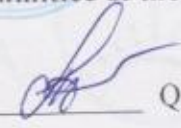
Head of the Department, Candidate of Medical Sciences, Associate Professor  Qauyzbay Zh.Ä.

Protocol No. 9 dated "21" "04" 2025

Agreed with the Employer:

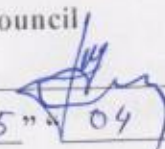
Chief Physician of City Polyclinic No.13, Shymkent  Moldybayeva A.K.

Discussed at the meeting of the Residency Academic Committee of the Therapeutic Profile

Chairman of the Academic Committee,
Candidate of Medical Sciences, Associate Professor  Qauyzbay Zh.Ä.

Protocol No. 4 dated "23" "04" 2025

Approved by the Clinical Council

Chairman, Professor  Nurmashev B.K.

Protocol No. 8 dated "25" "04" 2025

Approved by the Academic Council

Protocol No. 13 dated "02" "05" 2025

ОҢТҮСТІК-ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	SKMA — 1979 —	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Family Medicine Educational program "Therapy"		69-11/2025 5 page of 18

Educational program passport

The mission of the educational program To be recognized as a leader in the field of training highly qualified, competitive internists.

The purpose of the educational program: Training of qualified, competitive doctors with a system of universal professional competencies, capable of conducting independent therapeutic care, including emergency care, to the population regardless of age and gender.

3. Justification for the OP

Medical education is a flexible education system focused on the needs of society and scientific achievements. A doctor's training takes place throughout his life, so it is important to create a strong foundation for the accumulation of knowledge and experience.

The relevance of the "Therapy" program is associated with the reform and modernization of healthcare against the backdrop of the intensive development of biomedical sciences, the introduction of new high-tech diagnostic and treatment methods, and the detection of many diseases at the preclinical stage of their development. This expansion of the scope of activity of a general practitioner, the growth of his professional competence and qualifications requires special training in the framework of the correct interpretation of modern and new methods of diagnosis and preventive treatment using data from evidence-based medicine.

4. Professional standard on the basis of which the educational program was developed.

1. 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 healthcare.

2. Order of the Minister of Health of the Republic of Kazakhstan dated November 10, 2023, No. 164 "On Amendments and Additions to the Order of the Minister of Health of the Republic of Kazakhstan dated May 25, 2021, No. KP DSM-43 'On Approval of the List of Medical Specialties for Residency Programs' and the Order dated January 9, 2023, No. 4 'On Approval of Model Educational Programs in Medical and Pharmaceutical Specialties'"

3. "Regulations on the procedure and procedures for the development of educational programs" JSC "YUKMA" from 04.29.2024.

4. Internal regulatory documents of JSC "SKMA"

The demand for general practitioners in medical organizations justifies the need to open and implement training programs for general practitioners, primarily at the regional level, taking into account key strategies and healthcare development programs at the international, national, and regional levels, with the aim of improving the quality of medical care provided to the population.

5. Area of professional activity. organization of health management;

- organization of education;
- organization of social protection;
- patients in need of primary health care;
- a set of tools and technologies aimed at creating conditions for providing care to patients

6. Objects of professional activity.

- therapeutic, preventive and diagnostic;
- organizational and managerial;
- research

General information

No	The name of the field	Note
1	Registration number	7R09100115
2	Code and classification of the field of education	7R01 Healthcare (medicine)
3	Code and classification of training areas	7R011 Healthcare
4	Group of educational programs	R039 Therapy
5	Name of the educational program	7R01139 Therapy (residency)
6	Type of EP	Updated EP
7	ISCED level	7
8	NQL level	7
9	GQL level	7
10	Distinctive features of EP	compiled according to the professional standard
	University partner (Joint EP)	No
	University partner (Undergraduate OP)	No
11	List of competencies	CC1 Patient supervision: formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice in highly specialized medical care CC2 Communication and collaboration: interact effectively with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient CC3. Professionalism: assess risks and use the most effective methods to ensure a high level of safety and quality of highly specialized medical care. CC4. Public health: act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in their specialty, provide basic cardiac care in emergency situations, work as part of interprofessional teams to implement policies to improve the health of the nation CC5. Research: formulate adequate research questions, critically evaluate professional literature, effectively use international databases in their daily activities, participate in the work of a research team CC6. Training and development: learn independently and train other members of the professional team, actively participate in discussions, conferences and other forms of continuous professional development
12	Learning outcomes (SCSE 2022)	LO1 able to formulate a clinical diagnosis, assign a treatment plan and evaluate its effectiveness based on



evidence-based practice at all levels of medical care for patients with therapeutic diseases.

LO2 able to effectively interact with the therapeutic patient, their environment, and healthcare professionals in order to achieve the best results for the patient.

LO3 able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical therapeutic care.

LO4 able to act within the legal and organizational framework of the health system of the Republic of Kazakhstan in the specialty "Therapy", provide basic and emergency assistance in emergency situations, work as part of interprofessional teams to implement the policy of strengthening the health of the nation.

LO5 able to formulate the most relevant research questions, critically evaluate professional and scientific literature, effectively use international medical databases and digital tools in their daily activities, participate in the work of a research team.

LO6 able to train independently and train other members of the professional team, actively participate in discussions, conferences and other forms of continuous professional development in the field of internal organ pathology.

13	Form of study	Full time
14	Language of study	Kazakh and Russian
15	Amount of credits	Total: 140credits Among them: 1.Theoretical training – 138 credits 2. Final certification – 2 credits
16	Awarded academic degree	Therapist
17	Availability of application to license for training	KZ36LAA00011387
18	Accreditation of the OP	Have
	Name of accreditation body	IAAR
	Duration of accreditation	30.05.2025 - 29.05.2030 Registration No.: AB 5902
19	Information about the disciplines	Appendix 1,2

Appendix 1. 2

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

	LO1	LO 2	LO 3	LO4	LO5	LO6
CC1	+		+	+		
CC2		+		+		+
CC3	+		+	+		
CC4		+		+		
CC5					+	+
CC6		+				+

Appendix 1. 2

Information about the disciplines

№	Name of the discipline	Brief description of the discipline (30-50 words)	Cycle	Component	The amount of credits	Generated learning results (codes)
		Cycle of profile disciplines Required component				
1	Ambulatory-clinic therapy	Develops knowledge and skills in the diagnosis, treatment, rehabilitation, and provision of emergency and urgent medical care for diseases within the therapeutic profile, in accordance with clinical protocols and standards of medical care; conducts assessment of temporary disability; organizes and implements disease prevention activities and promotes a healthy lifestyle; maintains medical documentation and analyzes medical and statistical data in accordance with current legal and regulatory acts in the healthcare sector. Fosters a commitment to professional growth.	PD	UC	46	LR-2 LR-3 LR-4
2	Hospital therapy	Indications for emergency and planned hospitalization of patients	PD	UC	88	LR-1 LR-2

		in a hospital. Formulation of the clinical diagnosis, according to ICD-10. Daily supervision of patients in hospitals of various therapeutic profiles (cardiology, pulmonology, Nephrology, gastro-enterology, Hematology, intensive care and intensive care units). Principles of treatment based on evidence-based medicine				LR-3
	Total				134	
1	Clinical electrocardiography	Fundamentals of heart electrophysiology. Methods of conducting and normative indicators of data of ECG in adults in all standard areas. Electrocardiographic diagnostics of ECG changes: myocardial infarction, myocardial ischemia, myocarditis, hypertrophy of various parts of the heart; acute and chronic rhythm and conduction disorders, pulmonary embolism, pericarditis, and electrolyte disorders.	PD	EC	2	LR-1 LR-6
2	Extragenital pathology	Diagnosis and treatment of extragenital pathology in pregnant women: congenital and acquired heart defects, arterial hypertension, systemic connective tissue diseases, chronic kidney diseases, viral hepatitis and hepatosis, diabetes mellitus and thyroid pathology, iron-deficient and folic-B12-deficient anemia.	PD	EC		LR-1 LR-5
3	Emergency conditions in the clinic of internal diseases	Diagnosis and treatment of emergency conditions in the clinic of internal diseases (hypertensive crises, acute coronary syndrome, acute violation of cerebral circulation, acute heart rhythm	PD	EC		LR-2 LR-3 LR-4

		and conduction disorders, acute heart failure, asthmatic status, PE). Diagnostics, algorithms for emergency care and further tactics in the work of the therapist.				
4	Radiation diagnostic methods in therapy	The main indications and possibilities for the diagnosis of radiation methods in the clinic of internal diseases: radiography, computed tomography, magnetic resonance imaging, ultrasound examination methods. The development of skills in "reading" the results from the tov studies. Clinical interpretation of the data obtained in various pathologies of internal organs.	PD	OC	2	LR-2 LR-5
5	Nutritionology	Modern methods of assessing the nutritional status of patients. Alimentary-dependent diseases and conditions. Nutritional and metabolic correction of nutritional status in cardiovascular diseases. Alimentary factor in the prevention and treatment of diseases of the digestive system and blood system. Nutrition of children and pregnant women. Pathogenetic bases of diet therapy for allergoses and diseases of the musculoskeletal and urinary systems. Therapeutic nutrition for endocrine disorders	PD	EC		LO - 1 LO - 3
	TOTAL				138	
	Final examination				2	
	SUMMARY				140	

Professional Standard: "Therapy"

10. Job Profile: 7.2 General Practitioner (Therapist)

Occupational Profile: 7.2 General	Mandatory Job Functions:	1. Diagnosis of diseases and/or conditions within the scope of internal medicine. 2. Prescribing treatment for patients with
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Practitioner
(Internist)

diseases and/or conditions within the internal medicine profile, and monitoring its effectiveness and safety.

3. Implementation and monitoring of the effectiveness of medical rehabilitation for patients with internal medicine conditions, including the execution of individual rehabilitation or habilitation programs for persons with disabilities.
4. Conducting medical examinations (expert evaluations) for patients with internal medicine diseases and/or conditions.
5. Carrying out disease prevention activities, promoting healthy lifestyles, and providing public health and hygiene education.
6. Providing emergency and urgent medical care.
7. Participating in the management of medical documentation and medical-statistical information.

Additional Job Functions:

1. Continuous Professional Development

Job Function 1:
Diagnosis of
diseases and/or
conditions
within the
internal
medicine profile

Skill 1:

Diagnosis of diseases and/or conditions within the internal medicine profile in accordance with clinical protocols and standards of medical care.

Abilities:

1. Collect complaints, medical history, and history of present illness from the patient and/or their legal representative.
2. Interpret and analyze information received from the patient and/or their legal representative.
3. Perform physical examination of the patient.
4. Interpret the findings of physical examination (inspection, palpation, percussion, auscultation, and other methods).
5. Determine the sequence, scope, and content of diagnostic procedures.
6. Justify the necessity and scope of laboratory and instrumental diagnostic examinations.
7. Perform diagnostic procedures and interpret the results, including:
 - o Measurement of blood pressure on



- peripheral arteries
- Blood glucose testing
- 24-hour ambulatory blood pressure monitoring (ABPM)
- Pulse oximetry
- Interpretation of spirograms
- Determination of the ankle-brachial index
- Orthostatic test
- Peak flow measurement
- Interpretation of spirometry results
(Note: Pneumotachometry is not referenced in current pulmonology clinical protocols; replacement with standard spirometry is suggested)
- Preparation of smears and samples for cytological and bacteriological testing
- Pleural puncture
- Recording and interpretation of electrocardiograms (ECG)

8. Interpret the results of laboratory investigations.
9. Interpret the results of instrumental diagnostic procedures.
10. Justify referrals to medical specialists for patients with internal medicine diseases and/or conditions based on medical indications and contraindications; interpret the conclusions provided by specialists.
11. Assess the severity of the patient's disease and/or condition.
12. Establish a diagnosis in accordance with the International Classification of Diseases (ICD).
13. Conduct differential diagnosis using the diagnostic algorithm (primary, comorbid, and complications), considering ICD classifications.
14. Determine medical indications for emergency, including specialized emergency, medical care.
15. Determine medical indications for referring



the patient for inpatient or day hospital treatment within the internal medicine specialty.

Knowledge:

1. Standard for the organization of primary health care delivery in the Republic of Kazakhstan.
2. Regulations for the provision of primary health care.
3. Rules for the provision of specialized medical care in outpatient settings.
4. Standard for the provision of medical care in day-care (hospital-substituting) settings in the Republic of Kazakhstan.
5. Standard for the provision of inpatient medical care in the Republic of Kazakhstan.
6. National clinical protocols for diagnosis and treatment in the Republic of Kazakhstan relevant to the field of practice.
7. International clinical guidelines relevant to the field of practice.
8. Methods for collecting complaints, medical history (history of present illness and past medical history), and performing physical examination.
9. Indications and contraindications for laboratory and instrumental diagnostic methods.
10. Clinical presentation of diseases.
11. Theory and methodology of diagnosis, structure, and core principles of formulating a clinical diagnosis.

Skill Recognition
Possibility:

Recognition of the skill is recommended

Job Function 2:

Prescribing treatment for patients with diseases and/or conditions

Skill 1:

Prescribing treatment for patients with diseases and/or conditions within the internal medicine profile and monitoring its

Abilities:

1. Develop and justify a treatment plan for a patient with a disease and/or condition within the internal medicine profile, considering the diagnosis, age, and clinical presentation of the disease or condition.



within the internal medicine profile and monitoring its effectiveness and safety

effectiveness and safety in accordance with clinical protocols and standards of medical care.

2. Prescribe medications and medical devices in accordance with the clinical presentation and risk factors.
3. Prescribe non-pharmacological treatment and therapeutic nutrition, taking into account the diagnosis, age, and clinical features of the patient.
4. Analyze the pharmacological effects and interactions of medications prescribed to the patient.
5. Evaluate the effectiveness and safety of medications and medical devices used by the patient.
6. Evaluate the effectiveness and safety of non-pharmacological therapy and therapeutic nutrition.
7. Refer a patient with an internal medicine disease and/or condition for specialized medical care in an inpatient or day-care (hospital-substituting) setting, when medically indicated.

Knowledge:

1. Clinical presentation of diseases and/or conditions within the internal medicine profile.
2. Specific features of clinical presentation, course, and complications of diseases and/or conditions in elderly patients, senile patients, and pregnant women.
3. List of nosological forms by body systems in the adult population, including occupational diseases.
4. Methods for prescribing medications; medical indications and contraindications for the use of medical devices.
5. Mechanism of action of medications and medical devices; medical indications and contraindications for their use; potential complications, side effects, and adverse reactions, including serious and unexpected ones.
6. Methods of non-pharmacological therapy

		and therapeutic nutrition for patients. 7. Regulations for the provision of palliative medical care.
	Skill Recognition Possibility:	Recognition of the skill is recommended
Job Function 3: Conducting and monitoring the effectiveness of medical rehabilitation for patients within the internal medicine profile, including implementation of individual rehabilitation or habilitation programs for persons with disabilities	Skill 1: Conducting and monitoring the effectiveness of medical rehabilitation for patients within the internal medicine profile, including implementation of individual rehabilitation or habilitation programs for persons with disabilities, in accordance with clinical protocols and standards of medical care.	Abilities: 1. Determine medical indications and contraindications for medical rehabilitation activities and sanatorium-resort treatment, including during the implementation of individual rehabilitation or habilitation programs for persons with disabilities. 2. Develop a rehabilitation plan for patients with diseases and/or conditions within the internal medicine profile, including during the implementation of individual rehabilitation or habilitation programs for persons with disabilities. 3. Participate in conducting medical rehabilitation activities for patients with diseases and/or conditions within the internal medicine profile, including during the implementation of individual rehabilitation or habilitation programs for persons with disabilities. 4. Evaluate the effectiveness and safety of medical rehabilitation activities. 5. Participate in organizing medical rehabilitation activities taking into account the diagnosis. Knowledge: 1. Fundamentals of medical rehabilitation for patients with diseases and/or conditions within the internal medicine profile. 2. Methods of medical rehabilitation for patients. 3. Medical indications and contraindications for medical rehabilitation activities and sanatorium-resort treatment, including



		individual rehabilitation or habilitation programs for persons with disabilities. 4. Mechanisms of action of rehabilitation activities and sanatorium-resort treatment on patients' bodies. 5. Main programs of medical rehabilitation for patients with diseases and/or conditions within the internal medicine profile.
	Skill Recognition Possibility:	Recognition of the skill is recommended
Job Function 4: Conducting medical examinations (expert evaluations) of patients with diseases and/or conditions within the internal medicine profile	Skill 1: Assessment of temporary disability in accordance with clinical protocols and standards of medical care.	Abilities: 1. Identify signs of temporary disability, the need for family member care for patients with internal medicine diseases, and signs of persistent impairment of patients' vital functions. 2. Prepare medical documentation required for conducting medico-social expertise. Knowledge: 1. Procedures for conducting medical examinations of patients' temporary disability and caregiving needs, including issuing certificates of temporary disability. 2. Procedures for issuing certificates of temporary disability, including in electronic form. 3. Preparation of medical documentation for medico-social expertise. 4. Medical indications for referring patients with persistent functional impairments caused by internal medicine diseases and their consequences for medico-social expertise.
	Skill Recognition Possibility:	Recognition of the skill is recommended
Job Function 5: Conducting activities for disease prevention,	Skill 1: Conducting activities for disease prevention, promotion of a healthy lifestyle, and sanitary-	Abilities: 1. Implement specific and non-specific prevention of infectious diseases. 2. Determine medical indications for implementing restrictive measures

promotion of a healthy lifestyle, and sanitary-hygienic education of the population	hygienic education of the population in accordance with clinical protocols and standards of medical care.	(quarantine). - Determine medical indications for referral to a specialist physician. - Conduct sanitary and anti-epidemic measures in case of an infection outbreak. - Develop and implement programs for promoting a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevention and control of non-medical use of narcotic and psychotropic substances, optimization of physical activity, rational nutrition, and normalization of body mass index.
		Knowledge: - Rules for conducting sanitary and anti-epidemic measures. - Forms and methods of sanitary-educational work for promoting elements of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevention and control of non-medical use of narcotic and psychotropic substances, optimization of physical activity, rational nutrition, and normalization of body mass index. - Principles of applying specific and non-specific prevention of infectious diseases. - Organization of sanitary and anti-epidemic (preliminary) measures to prevent the emergence and spread of infectious diseases.
	Skill Recognition Possibility:	Recognition of the skill is recommended
Job Function 6: Providing emergency and urgent medical care	Skill 1: Providing emergency and urgent medical care in accordance with clinical protocols and standards of medical care.	Abilities: - Recognize conditions requiring emergency medical care, including clinical signs of sudden cessation of circulation and/or respiration that necessitate immediate intervention. - Provide emergency medical care to patients with life-threatening conditions, including clinical death (cessation of vital

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Department of Family Medicine Educational program "Therapy"	69-11/2025 16 page of 18

		functions such as circulation and/or respiration). - Administer medications and use medical devices when providing emergency and urgent care. - Perform basic cardiopulmonary resuscitation (CPR) measures. Knowledge: - Methods for collecting complaints and medical history from patients (or their legal representatives). - Techniques for physical examination of patients (inspection, palpation, percussion, auscultation, and other methods). - Clinical signs of sudden cessation of circulation and/or respiration. - Guidelines for performing basic cardiopulmonary resuscitation (CPR).
	Skill Recognition Possibility:	Recognition of the skill is recommended
Job Function 7: Participation in the management of medical documentation and medical-statistical information	Skill 1: Maintaining medical records and analyzing medical-statistical information in accordance with the requirements of regulatory legal acts in the field of healthcare.	Abilities: - Plan work activities and prepare reports with analysis of personal performance indicators. - Maintain medical documentation, including in electronic form, and monitor its quality. - Analyze medical and statistical indicators of the work of a specialized medical department. - Use patients' personal data and information in compliance with applicable legislation. - Utilize information systems in accordance with established procedures. Knowledge: - Order of the Acting Minister of Healthcare of the Republic of Kazakhstan dated October 30, 2020 No. ҚР ДСМ-175/2020 "On the approval of forms of accounting documentation in the field of healthcare and instructions for their completion"



		(registered in the Ministry of Justice of the Republic of Kazakhstan on November 4, 2020 No. 21579). - Order of the Minister of Healthcare of the Republic of Kazakhstan dated December 22, 2020 No. ҚР ДСМ-313/2020 "On the approval of forms of reporting documentation in the field of healthcare" (registered in the Ministry of Justice of the Republic of Kazakhstan on December 23, 2020 No. 21879). - Order of the Minister of Healthcare of the Republic of Kazakhstan dated December 10, 2020 No. ҚР ДСМ-244/2020 "On the approval of the rules for maintaining primary medical documentation and submitting reports" (registered in the Ministry of Justice of the Republic of Kazakhstan on December 11, 2020 No. 21761). - Electronic systems for recordkeeping and documentation. - Confidentiality of patient medical information. - Fundamentals of medical statistics.
	Skill Recognition Possibility:	Recognition of the skill is recommended
Additional Job Function 1: Continuous Professional Development	Skill 1: Commitment to professional improvement	Abilities: - Participate in professional educational activities such as conferences, seminars, webinars, and continuing education courses. - Engage in academic and scientific activities. - Take part in the work of professional associations, committees, and working groups on healthcare-related issues, and exchange experiences with colleagues. Knowledge: - Order of the Minister of Healthcare of the Republic of Kazakhstan dated December 21, 2020 No. ҚР ДСМ-303/2020 "On the

		approval of the rules for additional and informal education of healthcare professionals, qualification requirements for organizations implementing educational programs in additional and informal healthcare education, and the rules for recognizing the learning outcomes obtained by healthcare specialists through additional and informal education" (registered in the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21847). 2. Order of the Minister of Healthcare of the Republic of Kazakhstan dated December 20, 2020 No. КР ДСМ-283/2020 "On the approval of the rules for confirming the results of continuous professional development of healthcare workers" (registered in the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21843). 3. Opportunities for networking and professional communication with colleagues in the same field. 4. Current trends, research, and developments in the area of specialization.
	Skill Recognition Possibility:	Recognition of the skill is recommended
Personal Competency Requirements:	• Empathy • Communication skills • Tolerance and respect • Collaboration and teamwork • Stress resilience • Reflection and self-analysis • Adherence to professional ethics • Openness and willingness to learn • Proactiveness and initiative • Commitment to professional development	

Head of the Educational and Methodological Center



B.Z. Doltaeva