

MINISTRY OF HEALTH OF THE REPUBLIC OF KAZAKHSTAN

«SOUTH KAZAKHSTAN MEDICAL ACADEMY»



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

EDUCATIONAL RESIDENCY PROGRAM

7R01102

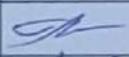
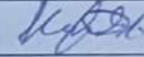




" ADULT, CHILDREN'S RHEUMATOLOGY"


Shymkent 2022yy.

Educational residency program

7R01102 «Adult, children's rheumatology»

has been updated in accordance with the requirements of the Order of the Minister of Health of the Republic of Kazakhstan "On approval of state mandatory standards for levels of education in the field of healthcare" dated July 4, 2022 No. KRDSM-63.

Position	Full name	Signature
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Protocol No. <u>1</u> of " <u>31</u> " <u>08</u> 2022		
Discussed at the meeting of the Residency CEP		
Chairman of the CEP	Kauyzbai Zh.A.	
Protocol No. <u>59</u> from " <u>04</u> " " <u>08</u> " 2022		
Approved by the Clinical Council		
Chairman of the Clinical Council	Kauyzbai Zh.A.	
Protocol No. <u>59</u> of " <u>05</u> " <u>08</u> 2022		
Approved by the Academic Council		
Protocol №. <u>12</u> from " <u>08</u> " " <u>08</u> " 2022.		

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Educational program passport

- 1. The mission of the educational program** is to train competitive personnel, achieve learning outcomes to provide the health care system and society with highly qualified rheumatologists. Qualification awarded upon completion of study – doctor-rheumatologist adults, children.
- 2. The purpose of the educational program** Training of doctors who have professional abilities and independently provide specialized highly qualified rheumatological care to the population, regardless of age and gender.
- 3. Justification of the OP**

Rheumatology is a specialization of internal medicine dealing with the diagnosis and therapy of groups of diseases manifested in systemic/local damage to the connective tissues of the musculoskeletal system of the human body. The need for rheumatologists in the Republic of Kazakhstan at all levels of medical care is very high.

The need of medical organizations for rheumatologists is the justification for the discovery and the need to train rheumatologists, primarily at the regional level, taking into account the main strategies and programs for the development of the health system at the international, national and regional levels in order to increase the level of rational use of medicines.

4. The professional standard on the basis of which the educational program has been developed

- Professional standard Rheumatology (adult, children's (project)
- Standard of organization of medical care in rheumatology Order of the Minister of Health of the Republic of Kazakhstan dated February 28, 2016 No. 126 . Registered with the Ministry of Justice of the Republic of Kazakhstan on March 15 , 2016 No. 13474.

5. The field of professional activity. Healthcare

6. Objects of professional activity.

- Health management organizations;
- healthcare organizations;
- educational organizations;
- organization of science;
- social protection organizations


Types of professional activity

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



Information about educational program

№	Characteristics of the EP	Data
1	Registration number	7R01100273
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	R002 Rheumatology for adult, childrens
5	Names of educational program	7R01102 Rheumatology for adult, childrens
6	Type of EP	Updated EP
7	Level of MSKO	7
8	Level of NRK	7
9	Level of ORK	7
10	Distinctive features of the EP	No
11	List of competencies	<p>C1. Predicts the outcome of the disease and its complications; uses the most effective methods to ensure a high level of safety and quality of medical rheumatological care;</p> <p>C2. Interacts with a patient with rheumatological pathology, his environment and colleagues, in order to achieve the best results for the patient;</p> <p>C3. Carries out continuous professional development in the field of rheumatology through self-study and training of others, participation in conferences and discussions.</p> <p>C4. Participates in conducting research work by evaluating professional literature, using international databases, formulating research questions and finding answers to them;</p> <p>C5. Operates within the legal and organizational field of the healthcare system of the Republic of Kazakhstan in the specialty "Rheumatology adults, children"; works as part of interprofessional teams;</p> <p>C6. Has the skills of diagnosis, differential diagnosis, treatment, evaluation of its effectiveness based on evidence-based practice and preventive measures at all levels of rheumatological care;</p>
12	Learning outcomes	<p>LO1: able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of medical care</p> <p>LO2: able to effectively interact with the patient, his environment, healthcare</p>


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		<p>professionals in order to achieve the best results for the patient</p> <p>LO3: able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care</p> <p>LO4: he is able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in his specialty, provide basic assistance in emergency situations, work as part of interprofessional teams to implement the policy of strengthening the health of the nation</p> <p>LO5 : he is able to formulate adequate research questions, critically evaluate professional literature, and effectively use international databases in team activities.</p> <p>LO6: he is able to study independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.</p>
13	Form of training	Full - time
14	Language of training	Kazakh and Russian
15	Volume of loans	140
16	Training period	2 years
17	Assigned qualification	Doctor-rheumatologist adults, children
18	Availability of an appendix to the license for the direction of training	KZ 36 LAA00011387
19	Existence of EP accreditation	+
	Name of accreditation body	IAAR
	Accreditation period	№ AB 4358 10.06.2022-09.06.2027 Ys.
20	Information about the disciplines	Appendix 1.2

Appendix 1.1

The matrix of correlation of learning outcomes according to the educational program as a whole with the competencies being formed

	LO1	LO2	LO3	LO4	LO5	LO6
C1	+	+	+			
C2		+		+		
C3			+		+	
C4				+		
C5					+	
C6						+

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Appendix 1.2


Matrix of achievability of competencies/learning outcomes

№	Names of discipline	Brief description of the discipline	Cycle	Component	Number of credits.	Generated learning outcomes (codes)
Cycle of profiling disciplines						
1	Outpatient clinic rheumatology, adult	Organization of outpatient care for rheumatological patients. Stationary replacement technologies. Clinical protocols of the Republic of Kazakhstan, clinical recommendations of the international medical communities on topical rheumatological diseases (RH). Features of diagnosis, treatment and follow-up of pregnant women with RS. Prevention and rehabilitation of patients with RS. Medical examination of patients with RS. Medical and social examination of patients with RS. The portal "Bureau of hospitalization".	PD	MK	26	LO2 LO3 LO6
2	Rheumatology outpatient, children's	Organization of outpatient care for pediatric rheumatological patients. Features of the course of rheumatological diseases in childhood. Issues of timely diagnosis, treatment,	PD	MK	26	LO2 LO3 LO6

		prevention, rehabilitation using clinical protocols and clinical recommendations for rheumatological diseases in pediatrics. Inpatient replacement and consultative diagnostic care in pediatric rheumatology				
3	Rheumatology in the hospital, adult	Epidemiology of rheumatological diseases. Nomenclature and classification of rheumatological diseases. Methods of examination of rheumatological patients. Differential diagnosis of joint diseases. Clinical immunology and immunopathology of rheumatological diseases. The basic principles of treatment of rheumatological diseases. Clinical protocols and clinical guidelines (RK, EULER, AP, PP). Rehabilitation of patients with pathology of the articular apparatus in stationary conditions. Research in rheumatology.	PD	MK	42	LO2 LO3
4	Rheumatology in the hospital, children's	Provision of specialized medical inpatient care for rheumatological diseases in children. Age and genetic aspects of rheumatological diseases in children. Features of rheumatological	PD	MK	40	LO1 LO5 LO6



		diseases in childhood. Selection and conduct of diagnostic tests. Principles of treatment. Psychological assistance to patients and their relatives with rheumatological diseases in children. Rehabilitation of patients with JURA in stationary conditions.				
Cycle of profiling disciplines Optional component						
5	Pregnancy rheumatic diseases	Management tactics in the prenatal and postpartum period of women with rheumatic diseases. Identification of the features of the course of rheumatic pathology in pregnant women, the management of therapy during pregnancy and the choice of treatment tactics, the expected prognosis of the disease and possible complications, the development of rheumatic disease during pregnancy and in the postpartum period.	PD	OC	2	LO1 LO2 LO5
6	Biostatistics in rheumatology	Methodological tools for descriptive and analytical statistics, types and features of biomedical research, experimental and clinical research in the field of the use of biological drugs in rheumatology.	PD	OC		LO5 LO6

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		Computer statistical programs, acquisition of skills for independent work with software products and solving practical problems necessary for planning, conducting and processing research results.				
7	Immunological tests in rheumatology	Immunological laboratory diagnostics of rheumatological diseases. Principles of diagnostic use of immunological tests. Calculation of analytical parameters of immunological tests in rheumatology. Interpretation of the results of serological examination in systemic rheumatological diseases. Methods of immunological diagnosis in rheumatology. Standardization and quality control of immunological tests. Clinical use of immunological tests in the diagnosis of rheumatological diseases.	PD	OC	2	LO4 LO5 LO6
8	The use of biological drugs in rheumatological diseases	The use of biological drugs has become a significant breakthrough in the treatment of rheumatological diseases such as rheumatoid arthritis, Sjogren's syndrome, ankylosing spondylitis and others. Biologics	PD	OC		LO2 LO5

		are usually based on proteins that target the immune system by blocking inflammatory signals such as cytokines or other molecules responsible for the development and maintenance of inflammation in joints and other tissues.			
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The matrix of achievement of LO by various teaching methods

LO	Methods used Teaching and learning	
LO1: He is able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice in conducting highly specialized rheumatology care.	Analysis of the material, feedback from the resident	Modeling situations and maintaining medical records
LO2 He is able to interact effectively with the rheumatological patient, his environment, and healthcare professionals in order to achieve the best results for the patient	A reflective diary	Maintaining medical records
LO3 He is able to assess risks and use the most effective methods to ensure a high level of safety and quality of highly specialized rheumatology care.	Supervision of clinical work	
LO4: He is able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in his specialty, provide basic hematology care in emergency situations, work as part of interprofessional teams to implement a policy of strengthening the health of the nation	Supervision of clinical work	Maintaining medical records
LO5 He is able to formulate adequate research questions, critically evaluate professional	"Journal Club"	Writing abstracts, articles Public appearances

literature, effectively use international databases in his daily activities, and participate in the work of the research team		
LO6 He is able to study independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.	Observation	

The matrix of compliance with LO assessment methods


LO	Methods used Teaching and learning	
LO1: He is able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice in conducting highly specialized rheumatology care.	Testing Oral interview Essay (short and long) The short answer	Analysis of the material, feedback from the resident Modeling of situations Maintaining medical records
LO2 He is able to interact effectively with the rheumatological patient, his environment, and healthcare professionals in order to achieve the best results for the patient	OSCE (with Skill Check stations) Mini Clinical Exam Long-term Case	A reflective diary
LO3 He is able to assess risks and use the most effective methods to ensure a high level of safety and quality of highly specialized rheumatology care.	Analysis of records in the medical history Analysis of doctor's activity records Analysis of prescriptions	Supervision of clinical work
LO4: He is able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in his specialty, provide basic hematology care in emergency situations, work as part of interprofessional teams to implement a policy of strengthening the health of the nation	Standardized patients Patient reviews Reviews from other students Score 3600	Standardized patients Video recordings (discussion, evaluation) Observation of clinical work Development of a draft drug form Maintaining medical records

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LO5 He is able to formulate adequate research questions, critically evaluate professional literature, effectively use international databases in his daily activities, and participate in the work of the research team	Abstract/presentation of the Publication	"Journal Club" Writing abstracts, articles Public appearances
LO6 He is able to study independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.	Portfolio Clinical records Self-assessment	Observation

Work plan for the entire period of study

Cycle disciplines	Discipline code	Name of the discipline/modules	Amount of credits	ЖGeneral hours	classroom	RIC		1 year of study	2 year of study	The form control	FE
						CPH	RTIC				
PD		CYCLE OF PROFILING DISCIPLINES	138	4140							
PD	MK	Mandatory component	134	4020							

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		R-OCRC	Outpatient clinic rheumatology, children's	26	780	156	546	78	26		Exam		
		R-RHC	Rheumatology in the hospital, children's	40	1200	240	840	120		40	Exam		
		R-OCRA	Outpatient clinic rheumatology, adult	26	780	156	546	78	26		Exam		
		R-RHA	Rheumatology in the hospital, adult	42	1260	252	882	126	18	24	Exam		
	OC	Optional component			4	120	24	84	12		4		
		R-PRD	Pregnancy and rheumatic diseases/										
				2	60	12	42	6		2	Exam		
		R-BR	Biostatistics in rheumatology										
		R-ITR	Immunological tests in rheumatology/	2	60	12	42	6		2	Exam		
		R-UBDRI	The use of biological drugs in rheumatological diseases										
		TOTAL			138	4140	828	2898	414*				
IC		INTERMEDIATE CERTIFICATION *											
FE		FINAL EXAMINATION			2	60				2		60	
TOTAL					140	4200	828	2898	414	70	70	60	