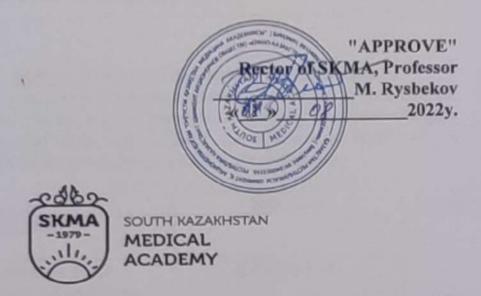
PJSC "SOUTH KAZAKHSTAN MEDICAL ACADEMY"



EDUCATIONAL RESIDENCY PROGRAM
7R01107
"PULMONOLOGY ADULTS, CHILDREN"

ONTUSTIK-QAZAQSTAN -CALO- SOUTH KAZAKHSTAN MEDISINA AKADEMIASY



MEDICAL ACADEMY

АСАДЕМУ АО «Южно-Казахстанская медицинская академия» «Оңтүстік Қазақстан медицина академиясы» АҚ

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Educational Residency Program 7R01107 "Pulmonology adults, children" updated according to the requirements of the Order of the Minister of Health of the Republic of Kazakhstan "On approval of the state compulsory standards of higher and postgraduate education" from July 4, 2022, the Ministry of Health of the Republic of Kazakhstan № 63 and Order of the Minister of Science.

Position	Full name	Signature
Developed by	61	
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Associate Professor of the Department, Ph.D.	Sergazina A.O.	\$
Representative of practical healthcare Head of the Pulmonology and allergology department Clinical Hospital №2	Baydildaeva G.M. КАДР БӨЛІМІ	Theor
Approved of the department meeting No_1a_ or «_4» «08_» 2022y.	THE PARTY OF THE P	
Discussed at the meeting of the Residency Educational Programs Committee		0
Head of Residency Educational Programs Committee	Kauzbay Zh. A.	SHO
Protocol №5a or «_04» « 08 » 2022y.		
Approved by the Clinical Council Head of Clinical Council	Kauzbay Zh. A.	As -
Protocol No 5a or « 05 » « 08 » 2022y.	Rudzony Zm In	
Approved by the Academic Council		
Protocol № 12 from «08» « 08 » 2022y.		

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Passport of the educational program

1. The mission of the educational program: To be recognized as a leader in the field of training highly specialized, competitive pulmonologists.

2. The purpose of the educational program: Training of a competitive pulmonologist with a system of universal, professional competencies, capable and ready for independent professional activity in primary health care; highly specialized pulmonological care; palliative care.

Justification of the Educational Program (EP)
 Pulmonology is a branch of medicine dealing with the study, diagnosis and treatment of diseases of the bronchopulmonary system.

One of the urgent tasks of modern pulmonology is to create uniform standards for the diagnosis and treatment of various lung diseases. The diagnosis should be based on the data of anamnesis, clinical, laboratory and other types of research.

Modern pulmonology is a field of dynamic development in both scientific and practical medicine. In recent years, there have been changes in the ideas of what a modern pulmonologist should know (erudition), what he should be able to do (practice), and, finally, what level of competence a modern pulmonologist should correspond to.

- 4. Professional standard, on the basis of which the educational program Professional standard "Pulmonology" was developed. Standard for the organization of pulmonological care in the Republic of Kazakhstan Order of the Ministry of Health of the Republic of Kazakhstan № 46 dated 01/25/2024.
- 5. Field of professional activity: the field of professional activity of graduates who have mastered the educational program 7R01107 Pulmonology (adult, children's) includes diagnosis, treatment, prevention and rehabilitation of diseases of the bronchopulmonary system in adults and children, as well as public health protection in general.

6. Objects of professional activity:

- organization of the health department;
- organization of education;
- organization of social protection;
- adult and child population;
- a set of tools and technologies aimed at creating conditions for public health protection.

Types of professional activity:

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

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General information

	Characteristics of the EP	Information
Ne		7R01100265
	Registration number	
2	The code and classification of the field of education	7R01 Healthcare (medicine)
3	The code and classification of training areas	7R011 Healthcare
4	Group of educational programs	7R007 Pulmonology (adult, children's)
	Name of the educational program	7R01107 "Pulmonology (adult, children's)"
5	Type of EP	Updated EP
7	The level by MSKO	7
8	The level of the NRK	7
9	ORC Level	7
10	Distinctive features of the EP	None
13	List of competencies	KK1 Medical knowledge: Synthesis of professional and scientific medical knowledge to provide qualified medical assistance KK2 Communication: Effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient KK3 Professionalism: Coordination of activities in healthcare organizations. The ability to make decisions and be responsible for the result of providing qualified medical care KK4 Personal and professional development: The ability to learn independently and train other members of a professional team, actively participate in discussions conferences and other forms of continuous professional development KK5 Regulatory and legal knowledge: The ability to accommodity the legal and organizational framework of the

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		healthcare system of the Republic of Kazakhstan. KK6 Research: The ability to research and evaluate the results of their professional activities, the application of principles of diagnosis of diseases based on scientific data. The application of modern research methods in healthcare, taking into account bioethics, and the introduction of clinical practice.
12	Learning outcomes (LO)	LO1 is 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 for patients with diseases of the bronchopulmonary system. LO2 is able to effectively interact with the pulmonological patient, his environment, and healthcare professionals in order to achieve the best results for the patient. LO3 is able to assess risks and use the most effective methods to ensure a high level of safety and quality of pulmonological care to the population. LO4 is able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in the specialty "Adult and pediatric pulmonology", provide basic assistance in emergency situations, work as part of interprofessional teams to implement a policy of strengthening the health of the nation LO5 is able to formulate adequate research questions, critically evaluate professional literature, effectively use international databases in the daily activities of the pulmonological field, and participate in the work of the research team. LO6 is able to study 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 pulmonology.
13	The form of education	Full-time
14	The language of education	Kazakh and Russian
	The duration of education	2 years
16	Volume of credits	140
17	The qualification awarded	Pulmonologist (adult, child)
18	Availability of an appendix to the license for the direction of education	KZ 36LAA00011387

The educational	program	7R01107"	Pulmonology	(adult,	children's)"
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19	Availability of EP accreditation	Primary
20	Name of the accreditation organization	NAAR
21	The validity period of the accreditation	10.06.2022 -09.06.2027 №AB4357
22	Information about the disciplines	Appendixes 1.2

Appendixes 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
KK1	+	+	+			+
КК2		+		+		
кк3	+		+			
KK4					+	
KK5				+		
КК6					+	+

Appendixes 1.2

Matrix of achievability of competencies/learning outcomes

№	The name of the discipline	Brief description	Cycle	Component	Number of credits.	Generated codes
1	Pulmonology outpatient clinics-1, adult	Functional diagnostic methods in pulmonology. General principles of bronchodilator and	PD	MC	18	LO1 LO2 LO3

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		antibacterial therapy. Respiratory diseases of the respiratory system at the outpatient stage.				
2	Pulmonology outpatient clinics-2, adult	Allergic and occupational lung diseases. Breathing disorders during sleep. Pulmonary rehabilitation. Respiratory support at the outpatient stage.	PD	MC	12	LO1 LO2 LO4
3	Pulmonology outpatient clinics-1, children's	Functional diagnostic methods and differential diagnosis of bronchopulmonary diseases. Common diseases in pediatric pulmonology at the outpatient stage. Medical examination of bronchopulmonary diseases in children. Provision of services for compulsory medical insurance.	PD	MC	12	LO1 LO2 LO3
4	Pulmonology outpatient clinics-2, children's	Orphan diseases in children. Congenital malformations of the bronchopulmonary system in children. Hereditary diseases of the lungs and bronchi in children. Etiology, clinic, diagnostic algorithm, treatment according to the clinical protocol of the Ministry of Health of the Republic of Kazakhstan.	PD	MC	10	LO1 LO2 LO3 LO4

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		Rehabilitation of children with bronchopulmonary diseases.				
5	Pulmonology in the hospital-1, adult	Visual diagnostic methods in pulmonology. Pathomorphology in pulmonology. Pharmacotherapy in pulmonology. Respiratory diseases of the respiratory system in the hospital	PD	MC	22	LO1 LO3 LO6
6	Pulmonology in the hospital-2, adult	Phthisiopulmonology. Oncopulmonology. Interstitial and orphan lung diseases. Abnormalities of the bronchopulmonary system and suppurative processes in the lungs. Intensive pulmonology. Interventional pulmonology.	PD	MC	26	LO1 LO2 LO3
7	Pulmonology in the hospital-1, children's	Visual diagnostic methods in pediatric pulmonology. Pharmacotherapy in pediatric pulmonology. Diseases associated with various pathogenic factors. Allergic diseases of the respiratory tract.	PD	MC	18	LO1 LO3 LO6
8	Pulmonology in the hospital-2, children's	Congenital anomalies of the bronchopulmonary system and genetically determined diseases in children. Clinical symptoms, diagnosis,	PD	MC	16	LO1 LO2 LO3

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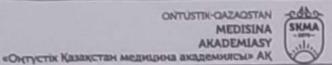


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		differential diagnosis, treatment and prevention from the perspective of evidence-based medicine. Interstitial lung diseases in children. Intensive pulmonology of childhood.				
1	Radiation diagnostics	Radiological syndromes of lung diseases. Radiation diagnostics of emergency conditions in pulmonology. The algorithm of diagnosis in lung diseases.	PD	МС	2	LO1 LO2 LO3 LO4
2	Research management and biostatistics	Planning of research work. The method and methodology of scientific research. Legislative and regulatory bases of scientific research. Stages of scientific research. Methods and methods of intellectual property protection. Professional ethics in the field of science.	PD	MC	2	LO5 LO6
	Total:				138	
	Final examination:				2	
	Total:				140	

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Work plan for the entire period of study

The cycl	Code of	Name of discipline	lits	I hours	Classroom hours	SI	W	1 year	2 year	3 year	Control	FC
of lisciplin	discipli ne	Name of discipline	Credits	General hours	Classroo	SIWT	SIW				forms	
PD		LE OF PROFILING DISCIPLINES	70	2100	420	1365	315					
	Mai	ndatory component	70	2100	420	1365	315					
					1 co	urse						
	POCA-	Pulmonology outpatient clinics-1, adult	10	300	60	195	45	10			Exam	
PD MC	R-	Pulmonology outpatient clinics-2, adult	12	360	72	234	54	12			Exam	
	R- PHA-1	Pulmonology in the hospital-1, adult	22	660	132	429	99	22			Exam	
	R- PHA-2	Pulmonology in the hospital-20, adult	26	780	156	507	117	56			Exam	

2 course



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D		CYC	CLE OF PROFILING DISCIPLINES	68	2040	408	1126	306	70	
	МС	Ma	ndatory component	64	1920	384	1048	288	64	Exam
		R- POCA-	Pulmonology outpatient clinics-1, adult	8	240	48	156	36	8	Exam
No. of the last of		R- POCCh	Pulmonology outpatient clinics-1, children's	12	360	72	234	54	12	Exam
		R- POCCh	Pulmonology outpatient clinics-2, children's	10	300	60	195	45	10	Exam
		R- PHCh- 1	Pulmonology in the hospital-1, children's	18	540	108	351	81	18	Exam
		R- PHCh- 2	Pulmonology in the hospital-2, children's	16	480	96	112	72	16	Exam
		Option	al component	4	120	24	78	18	4	
		R-RD	Radiation diagnostics	2	60	12	39	9	2	Exam
		R- RMB	Research management and biostatistics	2	60	12	39	9	2	Exam
		TOTAL		138	2100	468	1326	306	138	
F	E	FINA	AL EXAMINATION	2	60				2	
		7	TOTAL	140	2160	468	1326	306	140	