

«SOUTH KAZAKHSTAN MEDICAL ACADEMY»



«APPROVED»

Rector of SKMA, Professor

M. Rysbekov

20.09.2022




SOUTH KAZAKHSTAN
**MEDICAL
ACADEMY**




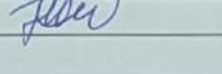
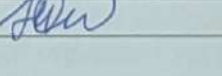
EDUCATIONAL RESIDENCY PROGRAM


7R01124 «ADULT ONCOLOGY»

Shymkent 2022 yy

ONTÜSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ		SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
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The educational program of the residency 7R01124 «Adult Oncology» was compiled in accordance with the Order of the Minister of Health of the Republic of Kazakhstan "On approval of the state mandatory standards for levels of education in the field of healthcare" dated July 4, 2022 No. KRDSM-63 and Standard educational programs of postgraduate education and proposals of all interested parties.

Position	Full name	Signature
Developed by		
Teaching staff of the Department of Surgery-2		
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Minutes of the department meeting Protocol No. <u>11a</u> of « <u>03</u> » « <u>08</u> » 2022		
Discussed at the meeting of the Residency COP		
Chairman of the CPC	Kauyzbai Zh.A.	
Protocol No. <u>5a</u> from « <u>04</u> » « <u>08</u> » 2022		
Chairman of the Clinical Council	Kauyzbai Zh.A.	
Protocol No. <u>5a</u> of « <u>05</u> » « <u>08</u> » 2022		
Approved by the Academic Council		
Protocol No. <u>12</u> of « <u>08</u> » « <u>08</u> » 2022		

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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 oncologists.
2. The purpose of the educational program is to train highly qualified, competitive oncologists who are able to meet the needs of society in providing medical care to cancer patients, apply and develop advanced innovative technologies in medicine, science and practice.
3. Justification of the OP Oncology (from Greek. oncos - tumor and logos - word, science) is a branch of medicine that studies the development of tumors, the causes of benign and malignant neoplasms, the mechanisms and patterns of their occurrence, clinical manifestations, methods of their prevention, diagnosis and treatment. Oncological diseases are systemic and affect, one way or another, all human organs and systems. There are many forms and variants of the course of cancer. Although patients often perceive oncodiagnosis as a verdict, not all tumors, even malignant ones, lead to death. Modern research has demonstrated that cancer cells and micro-tumors regularly occur in every person's body, which die and resolve under the influence of the antitumor immunity system. The basis of cancer is a violation of the processes of regulation of tissue growth. Despite the efforts of medical scientists, despite scientific and professional progress, the incidence of cancer is growing everywhere. Malignant neoplasms are diseases that lead to high mortality, which is why the mortality rate from cancer in the country does not decrease..
4. The professional standard on the basis of which the educational program was developed Regulatory documents for the development of an educational program -The Law of the Republic of Kazakhstan "On Education" for medical and pharmaceutical specialties, by Order No. 2 and the state mandatory standard of technical and vocational education in the field of healthcare, approved by Order No. KR DSM-63. -Professional standard "Adult Oncology" Standard for the organization of care for adults in oncology in the Republic of Kazakhstan Order of the Ministry of Health of the Republic of Kazakhstan No.RK DSM 92 dated 08/26/2021 -"Regulations on the procedure and procedures for the development of educational programs" JSC "YUKMA" dated 05/29/2019 - Internal regulatory documents of JSC "YUKMA".
5. The field of professional activity. Healthcare
6. Objects of professional activity. Medical organizations providing inpatient and outpatient care, healthcare systems of the Republic of Kazakhstan. The need of medical organizations for adult oncologists is the justification for the discovery and the need to train oncologists, 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 medical care for cancer patients.


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General information

1	Registration number	7R09100082
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	R024 «Adult Oncology»
5	Code, name of the educational program	7R01124 «Adult Oncology»
6	Type Op	Updated OP
7	ISCED level	7
8	The level of the NRK	7
9	ORC Level	7
10	Distinctive features of the OP	no
	Partner University (SOP)	no
	Partner University (SOP)	no
11		<p>KK1 is able to synthesize professional and scientific medical knowledge to provide qualified medical assistance. KK2 is able to effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient. KK3 is able to provide qualified medical care of the basic category of complexity and determine a strategy for providing qualified medical care to the population of the second category of complexity. KK4 is able to coordinate activities in organizations to determine the strategy of providing qualified medical care to the population of thesecond category of complexity. KK4 is able to coordinate activities in organizations to make decisions and be responsible for the result of providing qualified medical care</p> <p>KK5 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. KK6 is able to</p>

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		<p>operate within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan.</p> <p>KK7 is capable of researching and evaluating the results of his professional activity, applying the principles of diagnosis of diseases based on scientific data, applying modern research methods in healthcare, taking into account bioethics and implementations into clinical practice.</p>
12	Learning outcomes:	<p>LO1 Able to formulate a clinical diagnosis, prescribe treatment plan in accordance with the clinical protocols for diagnosis and treatment of the Ministry of Health of the Republic of Kazakhstan, with an assessment of its effectiveness based on evidence-based practice at all levels of medical care assistance to patients with cancer;</p> <p>LO2 Able to formulate a clinical diagnosis, prescribe treatment plan in accordance with the clinical protocols for diagnosis and treatment of the Ministry of Health of the Republic of Kazakhstan, with an assessment of its effectiveness based on evidence-based practice at all levels of medical care assistance to patients with cancer;</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 for patients with cancer;</p> <p>LO4 Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in the specialty "Adult Oncology", provide basic assistance in emergency situations, work as part of interprofessional teams to implement policies to improve the health of the nation;</p> <p>LO5 Able to formulate adequate research questions, critically evaluate</p>

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		professional literature on adult oncology, effectively use international databases in their daily activities, and participate in the work of a research team. LO6 Able to learn independently and train other members of the professional team, actively participate in discussions, conferences and other forms of continuing professional development in the field of adult oncology.
13	The form of study	is full-time
14	The language of instruction	<i>Kazakh and Russian</i>
15	Volume of loans	140
16	The duration of the training:	2 year
17	Degree awarded, qualification	Oncologist (adult)
18	Availability of an appendix to the license for the direction of training	KZ 36LAA00011387
19	Availability of OP accreditation	Have
	Name of the accreditation body	IAAR
	The validity period of the accreditation	№ AB 3514 27.05.2021-26.05.2026
20	Information about the disciplines	Application 1.2

Application 1.1

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


	PO1	PO2	PO3	PO4	PO5	PO6
KK1	+	+	+			
KK2		+		+		
KK3			+		+	
KK4				+		
KK5					+	
KK6						+

Application 1.2


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Matrix of achievability of competencies/learning outcomes


№	Name of the discipline	A brief description of the discipline	Cycle	Component	Number of credits.	Formed RO
1	Ambulatory-clinic oncology	<p>Organization and methodology of outpatient care for cancer patients.</p> <p>Features of dispensary supervision.</p> <p>Accounting and evaluation of the effectiveness of medical examination.</p> <p>Outpatient treatment of cancer patients.</p> <p>Diagnostic manipulations and the volume of operative care in a polyclinic.</p> <p>Radiation diagnostics and radiation therapy.</p> <p>Chemotherapy, classification of chemotherapy drugs and methods of their application.</p>	PD	UC	12	LO2 LO3
2	Oncoreabilitology	<p>Management of patients with advanced cancer.</p> <p>The problem of obesity and pathology at the stages of medical care.</p> <p>Modern methods of treatment, depending on the stage of spread.</p> <p>Palliative surgery.</p> <p>Forecast.</p> <p>Rehabilitation of cancer patients after radical or palliative treatment.</p>	PD	UC	6	LO2 LO3 LO6

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		Hospice. Principles of operation				
3	Functional diagnostics in oncology	Methods of diagnosis of oncological diseases based on modern, specialized, instrumental and functional diagnostic studies. The ability to formulate a clinical diagnosis independently, based on evidence-based practice, using effective diagnostic methods to maximize the safety and quality of medical care for patients.	PD	UC	6	LO1 LO5 LO6
4	Clinical and laboratory diagnostics in oncology	Clinical and laboratory diagnostics of oncological diseases of internal organs: lungs, stomach, intestines, liver, biliary system and pancreas, kidneys and urinary tract, kidneys, thyroid gland, adrenal glands and musculoskeletal system, skin and lymphomas.	PD	UC	6	LO2 LO5 LO6
5	Medical genetics in oncology	Medical genetics in oncology. Genetic aspects of the development of oncological diseases based on heredity and variability in various human populations, features of the manifestation and	PD	UC	6	LO5 LO6

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		development of normal and pathological signs under the influence of carcinogenic substances. Predisposition, heredity in oncology. Modern genetic research in the early diagnosis and prevention of cancer.				
6	Radiation diagnostics in oncology	Radiation diagnostics of oncological diseases of internal organs. Radiological symptoms and syndromes in oncological diseases of the musculoskeletal system, gastrointestinal tract and lung. Modern instrumental diagnostic methods of ultrasound, CT and MRI in oncology, diagnostic signs and criteria of oncological diseases. Screening diagnosis of breast cancer.	PD	UC	7	LO1 LO3 LO6
7	Pathological diagnosis	Pathomorphological diagnosis of oncological diseases: skin, lymphomas, lungs, stomach, intestines, liver, biliary system and pancreas, kidneys and urinary tract, kidneys, thyroid gland, adrenal glands. Musculoskeletal system. Methods of	PD	UC	8	LO3 LO5 LO6

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		taking biopsy material: cytomasoc, puncture biopsy, trepan biopsy, invasive methods and endoscopic, morphological studies.				
8	Radiation therapy	Radiation therapy of oncological diseases of internal organs and musculoskeletal systems, skin, lower lips, tumors of the oral cavity. Methods and doses of radiation therapy for various nosological forms of oncopathology. Modern instrumental innovative methods of radiation therapy, criteria for the effectiveness of cancer treatment.	PD	UC	10	LO2 LO3 LO6
9	Clinical Immunology in oncology	The immunological status of cancer patients depends on the general condition, histological form of the tumor and the stage of development. Immunotherapy of malignant neoplasms. Immunomodulators in the treatment of oncological diseases.	PD	UC	8	LO2 LO3 LO5
10	Oncology in the hospital	Modern diagnostic and therapeutic manipulations in stationary conditions. Highly qualified assistance in the diagnosis and treatment of	PD	UC	49	LO1 LO2 LO3



		<p>oncological diseases of various localization, taking into account the spread and stage of the tumor. Prevention of oncological diseases. Providing basic care at the stages of medical care. Prevention of complications, prognosis and rehabilitation. Clinical protocols of the Ministry of Health of the Republic of Kazakhstan on nosology.</p>				
11	Palliative oncology	<p>Palliative care in oncology. The amount of palliative care depends on the clinical condition of the patient, the stage of tumor development, location and nature of growth. The principle of operation of the palliative care department. Assessment of the risk, safety and effectiveness of palliative care (surgery, chemotherapy and radiotherapy).</p>	PD	UC	7	LO2 LO3 LO6
12	Intensive care in oncology	<p>The tactics of a doctor in emergency conditions of oncopathology.</p>	PD	UC	9	LO3 LO4 LO6

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		Modern highly specialized methods of treatment. Equipment and instruments used in intensive care. Principles of working with diagnostic and therapeutic equipment. Adequate assessment of the patient's condition. The use of modern and effective methods of emergency care. Risk and safety assessment of anesthesia and treatment. The legal field of action of the Healthcare of the Republic of Kazakhstan.				
					134	
1	Pediatric Oncology/	Pediatric oncology. Often common oncological diseases in children and adolescents. Congenital oncological diseases, teratomas, Wilms tumor, Ewing tumor and lymphoma. A modern approach to the development of oncological diseases in children. Methods of diagnosis and treatment. Rehabilitation.	PD	OC		LO1 LO2 LO5

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2	Interventional chemotherapy	Interventional chemotherapy in oncology. The choice of drugs and embolizing substances for the procedure. Risks and complications.	PD	OC	4	LO4 LO5 LO6
	Total:				138	
	Final certification				2	
	Total:				140	

The matrix of achievement of RO by various teaching methods and assessment methods


LO	Teaching and learning methods	
LO1 Able to formulate a clinical diagnosis, prescribe treatment plan in accordance with the clinical protocols for diagnosis and treatment of the Ministry of Health of the Republic of Kazakhstan, with an assessment of its effectiveness based on evidence-based practice at all levels of medical care assistance to patients with cancer;	Analysis of the material, feedback from the resident	Modeling situations and maintaining medical records
LO2 Able to formulate a clinical diagnosis, prescribe treatment plan in accordance with the clinical protocols for diagnosis and treatment of the Ministry of Health of the Republic of Kazakhstan, with an assessment of its effectiveness based on evidence-based practice at all levels of medical care assistance to patients with cancer;	A reflective diary	Maintaining medical records
LO3 Able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care for patients with cancer;	Supervision of clinical work	
LO4 Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in the specialty "Adult Oncology", provide basic assistance in emergency situations, work as part of interprofessional teams to implement policies to improve the health of the nation;	Supervision of clinical work	Maintaining medical records

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LO5 Able to formulate adequate research questions, critically evaluate professional literature on adult oncology, effectively use international databases in their daily activities, and participate in the work of a research team.	"Magazine Club"	Writing theses, articles Public appearances
LO6 Able to learn independently and train other members of the professional team, actively participate in discussions, conferences and other forms of continuing professional development in the field of adult oncology.	Observation	

The matrix of compliance with RO assessment methods

LO	Assessment methods	
LO1 Able to formulate a clinical diagnosis, prescribe treatment plan in accordance with the clinical protocols for diagnosis and treatment of the Ministry of Health of the Republic of Kazakhstan, with an assessment of its effectiveness based on evidence-based practice at all levels of medical care assistance to patients with cancer;	Testing Oral interview	Essay (short and long) The short answer
LO2 Able to formulate a clinical diagnosis, prescribe treatment plan in accordance with the clinical protocols for diagnosis and treatment of the Ministry of Health of the Republic of Kazakhstan, with an assessment of its effectiveness based on evidence-based practice at all levels of medical care assistance to patients with cancer;	OSCE (with skill check stations). A mini-clinical exam.	A long-lasting case
LO3 Able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care for patients with cancer;	Analysis of records in the medical history Analysis of the records of the doctor's activities	Keeping diaries
LO4 Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in the specialty "Adult Oncology", provide basic assistance in emergency situations, work as part of interprofessional teams to implement policies to improve the health of the nation;	Evaluation 360 ⁰	Patient reviews Feedback from other students Rating 360

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	R-OSD R-LDO R-RDO	Radiation diagnostics in oncology	7	210	42	147	21	7		Exam	
	R-ST R-LT R-RT	Radiation therapy	10	300	60	210	30	10		Exam	
	R-OCI R-CIO R-CIO	Clinical Immunology in oncology	8	240	48	168	24		8	Exam	
	R-PO R-PO R-PO	Palliative oncology	7	210	42	147	21		7	Exam	
	R-PD R-PD R-PD	Pathomorphological diagnosis	8	240	48	168	24	8		Exam	
	R-SO R-OS R-OH	Oncology in the hospital	49	1470	294	1029	147		49	Exam	
	R-OKT R-ITO R-ICO	Intensive care in oncology	9	270	54	189	27	9		Exam	
	Тандау компоненті/ Компонент по выбору/ Optional component		4	120	24	84	12		4		
	TK/ KV/ OC/	R-BO R-DO R-PO	4	120	24	84	12		4	Exam	
		Pediatric Oncology/									
		Interventional chemotherapy									
		R-IH R-IH R-IC									
	ВСЕГО		138	4140	828	2898	414*				
	AA/IA IC	INTERMEDIATE CERTIFICATION									
	KA/IA FE	FINAL EXAMINATION	2	60					2		60
	total		140	4200	828	2898	414	70	70		60