

JSC "SOUTH KAZAKHSTAN MEDICAL ACADEMY"



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

EDUCATIONAL RESIDENCY PROGRAM


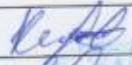

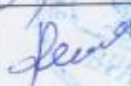




7R01104


" ADULT, CHILDREN'S GASTROENTEROLOGY"

Educational residency program

7R01104 «Adult, children's gastroenterology»

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

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Protocol No. <u>1</u> of " <u>31</u> " <u>08</u> 2022	Assanova G.K.	
Discussed at the meeting of the Residency CEP		
Chairman of the CEP	Kauyzbai Zh.A.	
Protocol No. <u>50</u> from " <u>07</u> " " <u>08</u> " 2022		
Approved by the Clinical Council		
Chairman of the Clinical Council	Kauyzbai Zh.A.	
Protocol No. <u>50</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.		

ОНТҮСТІК ҚАЗАҚСТАН MEDISINA АКАДЕМЈАСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA 1979	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казакхстанская медицинская академия»
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Passport of the educational program

1. The mission of the educational program is to train competitive personnel, achieve learning outcomes to ensure the health care system and society in highly qualified gastroenterologists.

Qualification awarded upon completion of study – doctor-gastroenterologist adults, childrens.

2. The purpose of the educational program

Training of a gastroenterologist, including a pediatric gastroenterologist, who has professional skills and is able to provide assistance to a patient with gastroenterological pathology in accordance with modern principles of evidence-based medicine.

3. Justification of the educational program

Gastroenterology is a branch of medicine that studies the structure and functions of the human digestive system under normal and pathological conditions, studies the causes and mechanism of development of various diseases of the digestive system, and develops new methods for diagnosis, treatment and prevention of these diseases. Today, a good gastroenterologist is one of the most sought-after specialists in our country. The need for gastroenterologists in the Republic of Kazakhstan at all levels of medical care is very high.

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

4. Professional standard, on the basis of which the educational program was developed • Professional standard " Gastroenterology (adult, children's) " (project) •

Standard for the organization of medical care in hematology in the Republic of Kazakhstan Order of the Acting Minister of Health of the Republic of Kazakhstan dated December 20, 2021 No. KR DSM-130. Registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2021 No. 25880


5. 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


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4. Information about educational program

№	Characteristics of the EP	Data
1	Registration number	7R01100266
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	7R01104 Gastroenterology (adult, children's)
5	Names of educational program	Gastroenterology (adult, children's) (residency)
6	Type of EP	Values (default – no value is selected): a) Updated EP
7	Level of MSKO	7
8	Level of NRK	7
9	Level of ORK	7
10	Distinctive features of the EP	No
	Partner University (СОП)	No
	Partner University (ДЦОП)	No
11	List of competencies	<p>1.Communication and collaboration: able to effectively interact with the patient with gastrointestinal disorders, his environment, and healthcare professionals in order to achieve the best results for the patient</p> <p>2.Researches: he is able to formulate adequate research questions, critically evaluate the professional literature on gastroenterology, effectively use international databases in his daily activities, and participate in the work of the research team.</p> <p>3.Public health: able to act within the legal and organizational framework of the health system of the Republic of Kazakhstan in the specialty “Gastroenterology, including children's”, to provide basic assistance in emergency situations, to work as part of interprofessional teams to implement the policy of strengthening the health of the nation.</p> <p>4.Training and development: able to train independently and train other members of a professional team, actively participate in discussions, conferences, and other forms of continuous professional development in the field of gastroenterology.</p> <p>5.Safety and quality: it is 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 disorders of the main functions of the gastrointestinal tract.</p> <p>6.Patient supervision: able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its</p>



		effectiveness based on evidence-based practice at all levels of medical care for patients with diseases of the gastrointestinal tract.
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 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 If necessary with the use of digital technologies
14	Language of training	Kazakh and Russian
15	Volume of loans	Total 140 credits Of these: 1. Theoretical training – 138 credits 2. Final certification – 2 credits
16	Assigned qualification	DOCTOR-GASTROENTEROLOGIST ADULTS, CHILDREN
17	Availability of an appendix to the license for the direction of training	KZ 36LAA00011387
18	Existence of EP accreditation	+
	Name of accreditation body	IAAR
	Accreditation period	10.06.2022-09.06.2027Ys.
19	Information about the disciplines	Appendix 1.2

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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						+

Appendix 1.2

The matrix of achievability of competencies/learning outcomes

№	The name of the disciplin	Short description	Cycle	Component	Number of credits	Formed LO
1	Gastroenterology	Organization of outpatient care for gastroenterological patients. Hospital-substituting technologies in the work of a gastroenterologist in an outpatient clinic. Work ability examination. Standards. Clinical protocols and clinical recommendations of the Republic of Kazakhstan on the main pathology of the digestive tract. Conducting cancer screenings for patients at risk, especially the elderly. Issues of prevention.	PD	MC	46	LO1 LO3 LO5
2	Hepatology	Issues of epidemiology of chronic hepatitis. Conducting screening in outpatient clinics for viral hepatitis in risk groups. Diagnostic algorithm. Indications for consultation with specialists. Dispensary observation in the	PD	MC	35	LO1 LO2 LO3 LO4



		hepatocenter. Antiviral treatment on an outpatient basis. Control and prevention of complications. Surgery. Indications for liver transplantation. Clinical protocols of the Republic of Kazakhstan.				
3	Fundamentals of oncology	Management of patients with advanced oncological diseases. Complications of oncopathology at the stages of medical care. Modern methods of treatment depending on the stage of spread. Palliative surgery. Forecast. Rehabilitation of cancer patients after radical or palliative treatment.	PD	MC	13	LO2 LO3 LO5
4	Nutritionology	Methods of diagnosis of oncological diseases based on modern, specialized, instrumental and functional diagnostic studies. The ability to independently formulate a clinical diagnosis, based on evidence-based practice, using effective diagnostic methods to maximize the safety and quality of medical care to patients.	PD	MC	12	LO1 LO5 LO6
5	Endoscopy	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. Endoscopic,	PD	MC	16	LO2 LO3

		morphological studies.				
6	Ultrasound diagnostics	Medical genetics in oncology. Genetic aspects of the development of oncological diseases based on heredity and variability in different populations of people, features of the manifestation and 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.	PD	MC	12	LO3 LO4 LO5
	All				134	
Cycle of major disciplines						
Elective component						
1	Enzyme-linked immunosorbent assay (ELISA) and polymerase chain reaction (PCR) diagnostics in gastroenterology and hepatology. Indirect elastography.	Methods of molecular clinical diagnostic research based on the use of monoclonal antibodies, filter hybridization and polymerase chain reaction; on identifying specific genes and products of their activity - proteins (ELISA). Indirect elastography as a method for determining the stage of fibrosis and the degree of liver steatosis.	PD	OC	4	LO1 LO3 LO5
2	Methodology of pH-metry and interpretation of results	Intraluminal pH-metry is one of the research methods for accurate diagnosis of the secretory and motor functions of the gastrointestinal tract. The advantage of this method, indications, contraindications, interpretation of results.	PD	OC	4	LO3 LO4



		Intraesophageal 24-hour pH-metry for the diagnosis of esophageal diseases: indications, contraindications, interpretation of results.				
3	Features of patient management after liver transplantation.	Choosing tactics for managing patients with end-stage chronic diffuse liver diseases and focal lesions. Determination of indications for liver transplantation and priority status for inclusion of patients on the waiting list. Stabilization of the clinical condition and assessment of the possibility of recovery/rehabilitation of the patient after orthotopic liver transplantation.	PD	OC	4	LO2 LO5 LO6
TOTAL			138			
Final certification			2			
TOTAL			140			

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

LO	Methods used Teaching and learning	
LO1: Patient care :formulate a clinical diagnosis, prescribe a treatment plan, and evaluate its effectiveness based on evidence-based practice in highly specialized medical care.	Analysis of the material, feedback from the resident	Modeling situations and maintaining medical records
LO2: Communication and collaboration: able to effectively interact with the patient, his environment, healthcare professionals in order to achieve the best results for the patient	A reflective diary	Maintaining medical records
LO3: Professionalism: able to assess risks and use the most effective methods to ensure a high level of patient safety	Supervision of clinical work	

medical care		
LO4: Public health: 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	Supervision of clinical work	Maintaining medical records
LO5: Research: formulate adequate research questions, critically evaluate professional literature, effectively use international databases in their daily activities, participate in the work of the research team	"Journal Club"	Writing abstracts, articles Public appearances
LO6: 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.	Observation	

The matrix of compliance with LO assessment methods

LO	Methods used Teaching and learning	
LO1: Patient care :formulatea clinical diagnosis, prescribe a treatment plan, and evaluate its effectiveness based on evidence-based practice in highly specialized gastroenteric 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: Communication and collaboration: communicate effectively with the gastroenterical patient, their environment, 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: Professionalism: assess risks and use the most effective methods to	Analysis of records in the medical history Analysis of doctor's	Supervision of clinical work



ensure a high level of safety and quality in highly specialized gastroenteric care.	activity records Analysis of prescriptions	
LO4: Public health: act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in their specialty, provide basic gastroenteric care in emergencies, work as part of interprofessional teams to implement the policy of promoting 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
LO5: Research: formulate adequate research questions, critically evaluate professional literature, effectively use international databases in their daily activities, participate in the work of the research team	Abstract/presentation of the Publication	"Journal Club" Writing abstracts, articles Public appearances
LO6: 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.	Portfolio Clinical records Self-assessment	Observation

Work plan for the entire training period

Cycle disciplines	Discipl code	Name of the discipline/ modules	Amount of credits	General hours	classroom	RIC		1 year of study	2 year of study	The form control	FE	
						CPPH	RTIC					
PD		CYCLE OF PROFILING DISCIPLINES	138	414 0								
		Mandatory component	134	402 0								
PD	MC	R-Hep	Hepatology	35	105 0	210	735	105	18	17	Exam	
		R-FO	Fundamentals of oncology	13	390	78	273	39		13	Exam	
		R-Nut	Nutritionology	12	360	72	252	36	12		Exam	
		R- End	Endoscopy	16	480	96	336	48	16		Exam	
		R-UD	Ultrasound diagnostics	12	360	72	252	36		12	Exam	
		R-Gas	Gastroenterology	46	138 0	276	966	138	24	22	Exam	
		Optional component		4	120	24	84	12		4		



Therapy and cardiology

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OC	R- FMPA LT	Features of management of patients after liver transplantation								Exam
	R- EPDG HIE	EISA and PCR diagnostics in gastroenterology and hepatology. Indirect elastography	4	120	24	84	12		4	
	R- PMMI R	PH-metry methodology and interpretation of results								
	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