

«SOUTH KAZAKHSTAN MEDICAL ACADEMY»

"APPROVED"

Rector of SKMA, Professor

M. Rysbekov

20 24 y.




SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

EDUCATIONAL RESIDENCY PROGRAM


7R01104

GASTROENTEROLOGY (ADULT'S, CHILDREN)

ONTÜSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Therapy and Cardiology	044-51/11-
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The educational program of the residency 7R01104 Gastroenterology (adults, childrens) was developed on the basis of the 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".

Position	Full name	Signature
Developed by		
Teaching staff of the Department of Therapy and cardiology		
Head of the Department, MD, assistant professor Protocol No. <u>2</u> from " <u>26</u> " " <u>01</u> " 2024	Assanova G.K.	
c.m.s, docent	Kushekbayeva A.E	
Representative of practical health care gastroenterologist	Alieva Sh.B	
Representative of practical health care gastroenterologist	Rsalieva Zh.M.	
Representative of practical health care gastroenterologist	Kurmangaliyeva A.K.	
Discussed at the meeting of the Residency CEP Chairman of the CEP Protocol No. <u>5</u> from " <u>26</u> " " <u>01</u> " 2024	Kauyzbai Zh.A.	
Approved by the Clinical Council Chairman of the Clinical Council Protocol No. <u>8</u> of " <u>29</u> " " <u>1</u> " 2024	Kauyzbai Zh.A.	
Approved by the First Vice-Rector The first vice-rector <u>30.01</u> 2024	Yesirkepov M.M.	
Approved by the Academic Council Protocol No. <u>14</u> from " <u>31</u> " " <u>01</u> " 2024.		

ОНТҮСТІК-ҚАЗАҚСТАН MEDISINA АКАДЕМИАСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ		SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская 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.

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 organizing the provision of medical care in gastroenterology in the Republic of Kazakhstan Order of the Minister of Health of the Republic of Kazakhstan dated March 29, 2023 No. 48. Registered with the Ministry of Justice of the Republic of Kazakhstan on March 31, 2023 No. 32185

5. Field of professional activity. Healthcare

6. Objects of professional activity. Medical organizations providing inpatient and outpatient care, healthcare systems of the Republic of Kazakhstan

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4. Information about educational program

№	Field name	Note
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 (ДЮП)	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</p>



		and evaluate its 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	KZ22BFA00167288
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

Appendix 1.1

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

	RE 1	RE 2	RE 3	RE 4	RE 5	RE 6
C1	+	+	+			
C2		+		+		
C3			+		+	
C4				+		
C5					+	
C6						+

Appendix 1.2

The matrix of achievability of competencies/learning outcomes

№	Names of discipline	Short Description	Cycle	Component	Number of credits.	Formed LO
Cycle of profile disciplines						
Required component						
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 hepatocenter. Antiviral treatment on an outpatient basis. Control and prevention of complications. Surgery. Indications for liver transplantation. Clinical protocols of the Republic of Kazakhstan.	PD	MC	35	LO1 LO2 LO3 LO4



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, morphological studies.	PD	MC	16	LO2 LO3
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. Intraesophageal 24-hour pH-metry for the diagnosis of esophageal diseases: indications, contraindications, interpretation of results.	PD	OC	4	LO3 LO4
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 RE 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	A reflective diary	Maintaining medical records

environment, healthcare professionals in order to achieve the best results for the patient		
LO3: Professionalism: able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care	Supervision of clinical work	
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 ensure a high level of safety and quality in highly specialized gastroenteric care.	Analysis of records in the medical history Analysis of doctor's activity records Analysis of prescriptions	Supervision of clinical work
LO4: Public health: act within the legal and	Standardized patients	Standardized patients

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organizational framework of the healthcare system of the Republic of Kazakhstan in their specialty, provide basic gastroenterical care in emergencies, work as part of interprofessional teams to implement the policy of promoting the health of the nation	Patient reviews Reviews from other students Score 3600	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 period of study

Cycle disciplines		Discipline code	Name of the discipline/ modules	Amount of credits	General hours	classroom /	RIC		1 year of study	2 year of study	The form of control	Final exam
							CPP H	/CPP/ RTIC				
PD	CYCLE OF PROFILING DISCIPLINES			138	4140							
PD	MC	Mandatory component		134	4020							
		R-Gep	Гепатология	35	1050	210	735	105	18	17	Емтихан/ Экзамен/ Exam	
		R-Gep	Гепатология									
		R-Hep	Hepatology									
		R-ON	Онкология негіздері	13	390	78	273	39		13	Емти Экзамен/ Exam	
		R-OO	Основы онкологии									
		R-FO	Fundamentals of oncology									
		R-Nut	Нутрициология	12	360	72	252	36	12		Емтихан/ Экзамен/ Exam	
		R-Nut	Нутрициология									
		R-Nut	Nutritionology									
		R-End	Эндоскопия	16	480	96	336	48	16		Емтихан/ Экзамен/ Exam	
		R-End	Эндоскопия									
	R-End	Endoscopy										
	R-UD	Ultrasound diagnostics	12	360	72	252	36		12	Емтихан/ Экзамен/ Exam		
	R-Gas	Gastroenterology	46	1380	276	966	138	24	22	Exam		
	Optional component		4	120	24	84	12		4			
OC	R-FMPALT	Features of management of patients after liver transplantation/	4	120	24	84	12		4	Exam		
	R-EPDGHI E	EISA and PCR diagnostics in gastroenterology and hepatology. Indirect elastography										
	R-	PH-metry methodology										

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	PMMIR	and interpretation of results								
	TOTAL		138	4140	828	2898	414*			
IC	INTERMEDIATE CERTIFICATION *									
FE	FINAL EXAMINATION		2	60					2	
TOTAL			140	4200	828	2898	414	70	70	