



EDUCATIONAL PROGRAM OF RESIDENCY 7R01108 Endocrinology (adults, children)

ONTUSTIK OAZAOSTAN
MEDISINA
AKADEMIASY
«Онтустік Қазақстан медицина академиясы» АҚ

Cathedra of Therapy and Cardiology

Educational program 7R01108 Endocrinology (adults, children)

SOUTH KAZAKHSTAN
MEDICAL
ACADEMY
AO «Южно-Казахстанская медицинская академия»

51/11
2 page. from 16

The educational program of the residency 7R01108 Endocrinology (adults, children) was developed by the Department of Therapy and Cardiology
Head of the Department Asanova G.K.
Protocol № <u>fa</u> from " <u>B</u> " <u>ay</u> 2025 y.
Agreed with the employer: Head of the Department of Endocrinology Regional Clinical Hospital, Candidate of Medical Sciences Isabekov M.B.
Discussed at the meeting of the AC therapeutic profile Chairman of the AK, Associate Professor Protocol № 4 from "21" 2025 y. Kauyzbai J.A.
Approved by the Clinical Council Chairman, Professor Protocol № 8 from "25" 04 2025 y. B.K.Nurmashev
Approved by the Academic Council Protocol № 13 from "26 " 05 2025 y.

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 endocrinologists.

2. The purpose of the educational program:

Training of doctors who have professional knowledge and independently provide highly specialized care for patients with endocrine diseases in accordance with modern principles of evidence-based medicine.

3. Justification of the OP:

Cardiology is a medical science that deals with the prevention, detection, and treatment of heart diseases and the circulatory system in general. A cardiologist is a doctor who specializes in this field and is also engaged in restoring the functioning of the heart, which is disrupted by diseases of other internal organs. The specialist's task is to timely detect and eliminate risk factors for cardiovascular pathologies, prevent their occurrence, select the necessary treatment and monitor the condition of patients, and rehabilitate cardiological and cardiac surgical patients.

The need of medical organizations for cardiologists in order to improve the quality of cardiological care is the rationale for the discovery and the need to train cardiologists, 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.

- 4. The professional standard on the basis of which the educational program is developed:
- Order of the Minister of Health of the Republic of Kazakhstan dated 07.04.2022 No. KR DSM-63 "On approval of state mandatory standards for levels of education in the field of healthcare";
- Professional standard "Endocrinology (adults, children)» (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".
- On Amendments and additions to the Order of the Minister of Health of the Republic of Kazakhstan "On approval of the list of medical specialties of residency programs" dated May 25, 2021 No. KR DSM 43 and "On approval of standard training programs in medical and pharmaceutical specialties" dated January 9, 2023 No. 4. (Order of the Minister of Health of the Republic of Kazakhstan dated 10 November 2023, No. 164).
- 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

«Оңтүстік Қазақстан медицина академиясы» АҚ Cathedra of Therapy and Cardiology

Educational program 7R01108 Endocrinology (adults, children)

4 page. from 16

General information

1	Registration number	7R09100113
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	R008 Endocrinology for adults, children
5	Code, name of the educational program	7R01108 Endocrinology (adults, children)
6	Туре Ор	Updated educational program
7	ISCED level	7
8	The level of the NRK	7
9	ORC Level	7
10	Distinctive features of the OP	compiled according to the professional standard
	Partner University (SOP)	
	Partner University (SOP)	
11	List of competencies	CC1 Patient supervision: formulate a clinical diagnosis, prescribe a treatment plan, and evaluate its effectiveness based on evidence-based practice in highly specialized endocrinological care. CC 2 Communication and collaboration: interact effectively with the endocrinological patient, his environment, and healthcare professionals in order to achieve the best results for the patient CC 3 Professionalism: assess risks and use the most effective methods to ensure a high level of safety and quality of highly specialized endocrinological care. CC 4 Public health: act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in their specialty, provide basic endocrinological care in emergency situations, work as part of interprofessional teams to implement national health promotion policies CC 5 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 CC 6 Training and development: to study independently and train other members of the professional team, actively

ONTÚSTIK QAZAQSTAN

SKMA MEDISINA **AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Cathedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

		participate in discussions, conferences and other forms of
12	Learning outcomes:	LO1 able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan under the educational program "Endocrinology (adult, children's)", provide basic assistance in emergency situations, work as part of interprofessional teams to implement national health promotion policies. LO2 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 endocrinology. LO3 able to effectively interact with the patient with endocrine pathology, his environment, health professionals in order to achieve the best results for the patient LO4 able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical endocrinological care LO5 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 endocrine system. LO6 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.
13	The form of study	is full-time
14	The language of instruction	Kazakh and Russian
15	Volume of loans	210
16	The duration of the training:	2 year
17	Degree awarded, qualification	Cardiologist for adults and children
18	Availability of an appendix to the license for the direction of training	KZ36LAA00011387
19	Availability of OP accreditation	Have
	Name of the accreditation body	IAAR
	The validity period of the accreditation	№ KZ73LAA00011788. 10.06.2022y09.06.2027y
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	+	+	+			
КК2		+		+		
КК3			+		+	
КК4			81	+		
КК5					+	
КК6				Y		+

Application 1.2

Matrix of achievability of competencies/learning outcomes

	Matrix of achievability of competencies/learning outcomes							
№	Name of the discipline	cipline A brief description of the discipline Cycle		Compo nent	Num ber of credit s.	Form ed RO		
		Cycle of Profiling discipline						
		Compulsory component						
1	Childhood diseases	Prenatal and postnatal periods of child development, depending on the functioning of the endocrine system. Conducting an initial examination of the child, making a diagnosis, dynamic observation, conducting a medical examination. Differential diagnosis of endocrine diseases in children from other childhood diseases with clinically similar symptoms. Determination of emotional and personal characteristics of sick children. Measures aimed at early detection of disorders of the endocrine system in children.	PD	UC	6	LO4 LO5 LO6		
2	Endocrinology in the hospital (adult)	Epidemiology of endocrine diseases. Nomenclature and classification of endocrine diseases. Skills in accurate diagnosis formulation according to ICD-10 when identifying endocrine system pathologies. Methods of examination of patients with endocrine pathology. Differential diagnosis of diseases of the endocrine system. Basic principles of treatment of diseases of the endocrine system. Standards. Clinical protocols and	PD	UC	42	LO1 LO2 LO3 LO4 LO5 LO6		

ONTÚSTIK QAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

SKMA بالر

SOUTH KAZAKHSTAN

MEDICAL

АСАDEMY АО «Южно-Казахстанская медицинская академия»

Cathedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

1		olinical management 1 th				
		clinical recommendations of the Republic of Kazakhstan on endocrine				
		pathology. Rehabilitation of patients				
		with diseases of the endocrine system				
		in stationary conditions. Research in				
		endocrinology.				
3	Endocrinology in		DD	7.10		-
	the hospital	Specialized medical inpatient care for	PD	UC	20	LO1
	(children's)	endocrine diseases in children. Agerelated and genetic aspects of				LO2
	(cilidrens)	general depects of				LO3
		and the contraction.				LO4
		Features of endocrine diseases in				LO5
		childhood. Selection and conduct of				LO6
	*	diagnostic tests. Principles of				
		treatment. Psychological assistance to				
		patients and their relatives with				
		endocrine diseases in children.				
		Rehabilitation of patients with				
		endocrine pathology in inpatient				
4	Endocrinology	conditions.				
	outpatient (adult)	Organization of outpatient care for	PD	UC	20	LO2
	outpatient (addit)	patients with endocrine pathology.				LO3
		Stationary substituting technologies.				LO5
		Clinical protocols of the Republic of				
		Kazakhstan, clinical recommendations				
	Y.	of international medical communities				
		on topical diseases of the endocrine				
		system. Prevention and rehabilitation of patients with endocrine	9			
		1 Clacellic				
		diseases.Clinical examination of				
		patients with endocrine				
		diseases. Medical and social expertise				
		of patients with endocrine diseases.				
		Portal "Bureau of Hospitalization".				
5	Endocrinology	Prevention issues.				
,	outpatient	Organization of outpatient care for	PD	UC	10	LO2
	(children's)	children with endocrine pathology.				LO3
	(cilidren's)	Features of the course of endocrine				LO5
		diseases in childhood. Issues of timely				
		diagnosis, treatment, prevention, and				
		rehabilitation using clinical protocols				
		and clinical recommendations for				
		endocrine diseases in pediatrics.				
		Inpatient-replacement and				
		consultative-diagnostic care in				
- 1	Lichler - 1	pediatric endocrinology.				
6	Highly specialized	Highly specialized care for patients	PD	UC	6	LO1
6		S J P	ID		0	LOI
6	endocrinological	with endocrine diseases in accordance				LO4 LO6

ONTÚSTIK QAZAQSTAN MEDISINA

SKMA -1979-..../,

SOUTH KAZAKHSTAN

MEDICAL ACADEMY

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

Cathedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

	care	with modern principles of evidence- based medicine. The main medical treatment-diagnostic and preventive interventions for the provision of highly specialized medical care to the population with endocrine diseases				
		and endocrinopathies.				
7	Internal disease	The relevance of creating a multidisciplinary team of therapeutic doctors in the diagnosis, management and treatment of patients with endocrine diseases. To collect a complete medical history from patients (adults and children) to identify endocrine system pathologies. Principles of early detection of diseases of internal organs in patients with endocrine diseases. Forecasting the course of internal diseases and prevention of their complications. Organization of preventive measures aimed at reducing the incidence of internal diseases in patients with endocrine diseases.	PD	UC	12	LO4 LO5 LO6
8	Radiation and radioisotope diagnostics	The importance of imaging methods and radioisotope diagnostics of endocrinological patients. Optimal choice of visual diagnostic methods in endocrinology. Physical fundamentals of ultrasound diagnostics. Interpretation of the results of functional diagnostics of patients with endocrine system pathology. New technologies in ultrasound diagnostics. Features of visual diagnostics in children.	PD	UC	8	LO2 LO4 LO5
9	Reproductive endocrinology, infertility and pregnancy	Modern issues of "Reproductive Endocrinology". Female reproductive endocrinology. Male reproductive endocrinology. Diagnosis and treatment of reproductive disorders in endocrine patients. A set of tools and technologies aimed at creating conditions for the protection of the health of citizens with endocrine pathology. Artificial methods of fertilization, in vitro fertilization (IVF).	PD	UC	10	LO4 LO5 LO6

ONTÚSTIK QAZAQSTAN MEDISINA

«Оңтүстік Қазақстан медицина академиясы» АҚ

SKMA

SOUTH KAZAKHSTAN

MEDICAL

ACADEMY AO «Южно-Казахстанская медицинская академия»

Cathedra of Therapy and Cardiology Educational program 7R01108 Endocrinology (adults, children)

AKADEMIASY

51/11

	Total:			T		
		Cycle of Profiling discipline				
	T-	A component of choice				
10	Fundamentals of replacement therapy in endocrinology	The importance of hormone replacement therapy in patients with endocrinopathy. Prevention and correction of changes resulting from endocrine disorders. The use of substitution therapy in men with delayed puberty, impotence, the development of cancer, to stimulate spermatogenesis, regulation of the main male hormone – testosterone.	PD	EC	2	LO4 LO6
11	Diabetes school	Structured training of patients with diabetes mellitus and persons with risk factors, aimed at the prevention of this disease and its complications. Theoretical foundations of group interactive and individual structured training for patients with type 1 and type 2 diabetes and persons with risk factors for diabetes.	PD	EC	2	LO2 LO3 LO4
12	Pregnancy and endocrine pathology	Endocrine pathology during pregnancy. Pregnancy and thyroid diseases. Pregnancy and diabetes mellitus. Complications of diabetes. Modern methods of diagnosis, treatment and follow-up of pregnant women with extragenital pathology correspond to modern standards of qualified care.	PD	EC		LO1 LO5
	Total:				138	
	Final certification:				2	
	Total:				140	

ONTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ Cathedra of Therapy and Cardiology Educational program 7R01108 Endocrinology (adults, children) SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия» 51/11 10 page. from 16

Professional standard: Endocrinology (adults, children)

Profession card " 7.1	Mandatory labor	1. Provision of qualified and specialized endocrinological
Endocrinologist"	functions:	care in outpatient, inpatient and inpatient settings, at
	2	home, outside the medical organization, in emergency
		and planned forms under the supervision and supervision
		of a mentor
	*	2. Carrying out preventive measures in the provision of
		endocrinological care, preventing the formation of
		antimicrobial resistance, sanitary and hygienic education
		and the formation of a healthy lifestyle of the population
		under the supervision and supervision of a mentor.
4		3. Interaction with patients, their environment and
		healthcare participants under the supervision and
	*	supervision of a mentor
,	w a	4. Maintaining accounting and reporting medical records
	× .	under the supervision and supervision of a mentor
	Additional labor	1. Continuous professional development under the
	functions:	supervision of a mentor
		•
Labor function 1:	Skill 1:	Skills:
Provision of specialized	Examination of	1. To collect a complete medical history from patients
medical care and	adults and children	(adults, children) and children to identify the pathology of
management of patients	to identify signs of	the endocrine system.
with rheumatic diseases	diseases related to	2. To conduct a physical examination of patients (adults,
at the outpatient and	pathology and	children) to identify the pathology of the endocrine
hospital levels.	dysfunction of	system.
	endocrine organs in	3. Examine the condition of the skin, subcutaneous tissue,
	outpatient settings	muscles, thyroid gland, heart, lungs, liver, pancreas,
		kidneys, bone system, peripheral vessels, central, and
		peripheral nervous system in patients (adults, children)
	4	with suspected endocrine pathology.
		Knowledge:
		1. Features of medical history collection and physical
		examination of adults and children with pathology and
		dysfunction of endocrine organs.
	,	2. Knowledge of the normal and pathological anatomy
	8	and physiology of the endocrine system in adults and
		children.
	Skill 2:	Skills:
	Carrying out	1 It is reasonable to prescribe diagnostic tests to patients
	measures for the	(adults, children) with suspected endocrine pathology.
,	diagnosis of diseases	2. Interpret the results of diagnostic and laboratory tests
	related to pathology	for patients (adults, children) with suspected endocrine
	and dysfunction of	pathology.
*	endocrine organs in	3. To assess the level of functional insufficiency of the
	children and adults.	endocrine system when detecting a pathological process
		in patients with endocrine diseases.

SOUTH KAZAKHSTAN

MEDICAL

ОŃTÚSTIK OAZAOSTAN

MEDISINA

AKADEMIASY
ина академиясы» АҚ ACADEMY АО «Южно-Казахстанская медицинская академия» «Оңтүстік Қазақстан медицина академиясы» АҚ

Cathedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

	7	1 = 1
		 Knowledge: Fundamentals of biochemistry and hormonal regulation of endocrine system organ function in patients (adults, children). Principles of diagnosis of endocrine diseases in patients (adults, children) using laboratory and instrumental research methods registered in the Republic of Kazakhstan.
	Skill 3: Diagnosis, planning and organization of treatment of adults and children with diseases related to pathology and dysfunction of endocrine organs under the supervision of a	Skills: 1. Formulate a diagnosis according to ICD - 10 when detecting pathology of the endocrine system. 2. Prescribe outpatient treatment to a patient with major congenital and acquired diseases of the endocrine system. 3. To conduct medical examinations of patients with endocrine diseases and pathology. Knowledge: 1. Knowledge of the etiology, pathogenesis, classification, and clinical manifestations of the main congenital and acquired diseases of the endocrine system
	mentor.:	- type 1 and type 2 diabetes mellitus, obesity, metabolic syndrome, thyroid diseases with hypothyroidism and thyrotoxicosis, parathyroid diseases with hypo and hyperparathyroidism, endemic goiter, adrenal diseases with manifestations of hypercorticism and hypocorticism, pituitary diseases with manifestations of hypopituitarism and hyperpituitarism, diseases with impaired function of the sex glands. 2. Knowledge of modern Kazakhstani clinical protocols and algorithms for the examination and management of patients with endocrine system pathology in adults and children.
	Skill 4: Treatment and prevention of acute and chronic complications of diseases related to pathology and dysfunction of endocrine organs in children and adults under the supervision of a	Skills: 1. Timely identify complications of diseases of the endocrine system. 2. Diagnose acute and chronic complications of endocrine diseases. 3. Timely inform the heads of the medical organization and chief specialists about cases of detection of severe and diagnostically unclear patients with endocrine system pathology. Knowledge: 1. Knowledge of the pathogenesis, clinic, and treatment of major acute and chronic complications of diseases of
,	mentor.;	the endocrine system - diabetic ketoacidotic coma, diabetic hyperosolar coma, hypoglycemic coma in diabetes mellitus, chronic kidney disease in diabetes mellitus, diabetic peripheral and autonomic neuropathy, diabetic foot syndrome, thyrotoxic crisis, myxedema,

OŃTÚSTIK QAZAQSTAN **MEDISINA**

SKMA

SOUTH KAZAKHSTAN
MEDICAL

MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия»

AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

51/11

Cathedra of Therapy and Cardiology
Educational program 7R01108 Endocrinology (adults, children)

	Skill 5: Referral for hospitalization of a patient with endocrine pathology to the appropriate department of a medical organization.	acute adrenal insufficiency, severe hypercortisolism, pheochromocytoma crisis, hypertensive crisis in aldosteronism, hypo and hyperparathyroid crisis, crisis in diabetes insipidus, acute manifestations of decompensation in hypo and hyperpituitarism. Skills: 1. To determine the indications for emergency and planned hospitalization of a patient with endocrine pathology Knowledge: 1. Knowledge of indications for hospitalization based on clinical protocols and algorithms for managing patients with endocrine system pathology in adults and children.
	Skill 6: Provision of emergency and emergency medical care to patients with pathology of the endocrine system	Skills: 1. Recognition of life-threatening conditions, including clinical death (arrest of vital functions of the human body (blood circulation and/or respiration), requiring emergency medical care. 2. Recognize urgent conditions in endocrinology that pose a threat to life and require emergency medical care. 3. Provide emergency medical care to patients in urgent conditions, including in emergency situations. 4. Provide emergency medical care in conditions that pose a threat to life, including clinical death (stopping vital functions of the human body (blood circulation and (or) respiration). 5. Perform basic cardiopulmonary resuscitation. 6. Use medicines and medical devices when providing emergency medical care. Knowledge: 1. Urgent conditions in endocrinology: diagnostic criteria; principles of treatment and prevention. 2. Principles and methods of providing emergency medical care to patients with urgent conditions, diseases related to pathology and dysfunction of endocrine organs, including in emergency situations. 3. Rules of basic cardiopulmonary resuscitation.
Labor function 2:	Skill 1:	Skills:
Carrying out preventive measures in the provision of endocrinological care, preventing the	Organization and implementation of preventive measures aimed at the prevention of	 Participate in activities aimed at the primary prevention of diseases associated with pathology and dysfunction of the endocrine organs. Possess the skills of organizing a "school" for patients
formation of antimicrobial resistance, sanitary and	diseases associated with pathology and dysfunction of	with diseases related to pathology and dysfunction of the endocrine organs (school of stroke, etc.). 3. Participate in periodic and preventive medical examinations.

ońtústik qazaqstan

MEDISINA AKADEMIASY

~db>

SKMA

«Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Cathedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

13 page. from 16

hygienic education and the formation of a healthy lifestyle of the population under the supervision and supervision of a mentor. endocrine organs in patients (adults, children). Infection prevention and infection control.

- 4. Participate in screening preventive medical examinations of target groups of the child population, followed by dynamic monitoring.
- 5. Participate in the organization and implementation of measures aimed at the prevention of infections related to medical care (surgical area infections, catheter-associated bloodstream infections, catheter-associated urinary tract infections, lower respiratory tract infections, hemocontact infections (hepatitis B and C, HIV)."
- 6. Participate in infection prevention and infection control activities, and prevent the formation of antimicrobial resistance.

Knowledge:

- 1. Rules for the organization of screening.
- 2. Principles of prevention of diseases related to pathology and dysfunction of endocrine organs.
- 3. Target groups of individuals to be screened.
- 4. Methods of prevention of diseases related to pathology and dysfunction of endocrine organs.
- 5. Principles of preparation and methods of conducting educational programs of the School of health.

Skill 2:

Organizing and conducting educational, educational and campaigning events aimed at preventing diseases, forming a healthy lifestyle, maintaining and strengthening health.

Skills:

- 1. To carry out sanitary and educational work on the prevention of diseases related to pathology and dysfunction of endocrine organs.
- 2. To inform about sanitary requirements, rules and recommendations for ensuring safety and hygiene in various spheres of life: food, water, sanitary conditions, housing conditions, personal hygiene, as well as about the risks associated with the use of antibiotics without proper indications.
- 3. Provide patients and their legal representatives with information about vaccines, their importance, benefits and possible risks in accordance with national and international protocols and recommendations.
- 4. Inform about regular medical examinations and screening programs.
- 5. To teach sanitary and hygienic skills in order to preserve, promote health, and enhance sanitary and hygienic culture: maintaining hygiene and safety, including standard precautions (hand hygiene, cough etiquette, personal protective equipment, safe injection practices, waste management, disinfection, and sterilization), food safety, and infection prevention.
- 6. To organize and conduct events to promote a healthy lifestyle, rational and healthy nutrition, the importance of physical activity, giving up bad habits, and maintaining psychological well-being.

ONTÚSTIK QAZAOSTAN MEDISINA AKADEMIASY

SKMA -1977-

SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ АО Саthedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

14 page. from 16

	1	T+r 1 1
		Knowledge:
1		1. Measures to promote a healthy lifestyle, rational and
		healthy nutrition, and physical activity.
		2. Methods of infection prevention and the spread of
		infectious diseases.
		3. Principles of personal hygiene and healthy lifestyle.
Labor function 3:	Skill 1:	Skills:
Interaction with	Interaction with the	1. Plan your work and compile a report analyzing your
patients, their	patient, his relatives	own performance indicators.
environment, and	or legal	2. Maintain medical records, including in electronic form,
healthcare participants	representatives	and monitor the quality of its management.
under the supervision	Topico Caronia Car	3. To analyze the medical and statistical indicators of the
		work of the specialized medical department.
and supervision of a		4. Use patients' personal data and information in
mentor		accordance with the law.
		5. Use information systems in accordance with the
		established procedure.
		Knowledge:
		1. Principles of communication with the patient, his
		relatives or legal representatives.
	,	2. Ethical, cultural, religious, and legal aspects related to
		informing the patient about the choice of treatment
		methods and medical devices.
		3. Psychosocial aspects of the patient's health.
		4. The process of obtaining informed consent in
		compliance with legal requirements.
		5. Principles of interaction in conflict situations.
	Skill 2:	Skills:
	Cooperation with	1. Advising and participating in advanced training of
		primary health care and related specialties in
	other specialists and	
	health services on	endocrinology.
	issues of diagnosis,	2. Work in teams with other healthcare professionals and
	treatment,	services to provide a full range of medical care to
	rehabilitation,	patients.
	providing an	3. Share information with other healthcare professionals
	integrated approach	and services to ensure continuity of medical care and
	to the prevention of	timely intervention if necessary.
	the spread of	4. Participate in multidisciplinary groups, consultations,
	infections and the	and clinical rounds.
	formation of a	5. Cooperate with public organizations and health
*		services to prevent the spread of infections, vaccinate and
*	healthy lifestyle.	respond to emergencies.
-		
		6. Refer patients to specialists or specialized health
		services for further diagnosis and treatment.
		Knowledge:
		1. The role and functions of other specialists and services
		in matters of diagnosis, treatment, and rehabilitation.
		2. Technologies and standards of medical practice

2. Technologies and standards of medical practice.

ONTUSTIK QAZAQSTAN

MEDISINA

AKADEMIASY

«Оңтүстік Қазақстан медицина академиясы» АҚ

Cathedra of Therapy and Cardiology

Educational program 7R01108 Endocrinology (adults, children)

SOUTH KAZAKHSTAN

MEDICAL

ACADEMY

AO «Южно-Казахстанская медицинская академия»

51/11

15 page. from 16

		3. Principles of effective communication with healthcare
		professionals and services.
Labor function 4:	Skill 1:	Skills:
Maintaining accounting	Accounting and	1. To draw up medical documentation in accordance with
and reporting medical	documentation in	the forms, types, volume, procedure and terms established
records under the	medical practice	by the authorized body.
supervision and supervision of a mentor		2. Organize and store medical records in accordance with the requirements.
supervision of a mentor		3. Process medical information confidentially, observing
		the rules and regulations related to the protection of
		personal data and ensuring the security of medical
		information.
		4. To use information systems in the field of healthcare in
		professional activities.
		Knowledge:
		1. Order of the Acting Minister of Health of the Republic
		of Kazakhstan dated October 30, 2020 No. KR DSM-
		175/2020 "On approval of Accounting Documentation
		forms in the field of healthcare, as well as instructions for
		completing them (registered with the Ministry of Justice
		of the Republic of Kazakhstan on November 4, 2020 No.
		21579).
		2. Order of the Minister of Health of the Republic of
		Kazakhstan dated December 22 2020 No. KR DSM-
		313/2020 "On approval of forms of accounting
		documentation in the field of healthcare" (registered with
		the Ministry of Justice of the Republic of Kazakhstan on
		December 23, 2020 No. 21879).
		3. Order of the Minister of Health of the Republic of
		Kazakhstan dated December 10, 2020 No. KR DSM-
		244/2020 "On approval of the rules for maintaining
		primary medical records and submitting reports"
		(registered with the Ministry of Justice of the Republic of
		Kazakhstan on December 11, 2020 No. 21761).
		4. Electronic accounting and documentation systems.
		5. Confidentiality of patients' medical information.
Additional labor	Skill 1:	Skills:
function 1:	Participation in	1. Formulate research questions, develop hypotheses,
Continuous	research and	collect and analyze data, conduct statistical analysis and
professional	scientific projects	draw conclusions from the research results.
levelopment under the	ziidiiii projects	2. Observe the principles of fairness, informed consent,
upervision and		confidentiality, and protection of the rights and well-
upervision of a mentor		being of patients participating in research.
aper vibion of a monior		3. To conduct a search and analysis of literature, a critical
		assessment of research data.
		4. Possess research design skills, including research plan
		and design, selection of methodology, definition of
		inclusion and exclusion criteria, development of a

OŃTÚSTIK QAZAQSTAN MEDISINA **AKADEMIASY**

SKMA

SOUTH KAZAKHSTAN

MEDICAL **ACADEMY**

«Оңтүстік Қазақстан медицина академиясы» АҚ

АО «Южно-Казахстанская медицинская академия»

Cathedra of Therapy and Cardiology

51/11

Educational program 7R01108 Endocrinology (adults, children)

	_		
		protocol and data collection scheme.	
1		5. Submit research results in writing and publish articles	
		in scientific journals.	
		Knowledge:	
		1. Fundamentals of scientific method and scientific	
		research.	
		2. Ethical principles, regulatory norms and procedures	
		related to human research.	
		3. Statistical methods, methods of data processing and	
		evaluation of the statistical significance of the results.	
	Skill 2:	Skills:	
	Striving for	1. Participate in professional training events: conferences,	
	professional	seminars, webinars.	
	improvement	2. To train personal skills: leadership, teamwork, empathy	
	1	and adaptability, initiative and responsibility for	
		achieving goals.	
	* '	3. Develop time and stress management skills.	
		Knowledge:	
		1. Order of the Minister of Health of the Republic of	
		Kazakhstan dated December 21, 2020 No. KR DSM-	
	2 2	303/2020 "On Approval of the Rules for additional and	
		non-formal education of healthcare Professionals,	
		qualification requirements for organizations	
		implementing educational programs for additional and	
		non-formal education in the field of healthcare, as well as	
		the rules for recognizing the learning outcomes obtained	
		by healthcare professionals through additional and non-	
		formal education (registered with the Ministry of Justice	
		of the Republic of Kazakhstan on December 22, 2020,	
		No. 21847).	
		2. Opportunities for networking and communication with	
		colleagues from their professional field.	
		3. Current trends, research and development in the	
		specialized field.	
Personal competence	Empathy		
requirements:	Communication skills		
	Tolerance and respect		
	Collaboration and teamwork		
	Stress resistance		
	Reflection and introspection		
	Compliance with professional ethics		
	Openness and willingness to learn		
	Activity and initiative		
	Striving for professional development		