

RESIDENCE EDUCATIONAL PROGRAM \$7 R01103\$ « ALLERGOLOGY AND IMMUNOLOGY (ADULTS, CHILDREN) »

ONTÚSTIK QAZAQSTAN MEDISINA AKADEMIASY «Онтустік Қазақстан медицина академиясы» АҚ Department of Microbiology, Allergology and Immunology Educational program " Allergology and immunology (adults, children) " SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия» 50/112 page of 20 pages

The educational program of the residency "Allergology and immunology was developed by the Department of "Microbiology, allergology and immunology	
Head of department, candidate of medical sciences, professor S Protocol No. 9 from " 17" 04 2025y	Seytkhanova B.T.
Representative of practical healthcare Regional Children's Hospital Chief freelance allergist of the Turkestan region	_Ryskulova D. A.
Discussed at the meeting of the AC Therapeutic profile	
Chairman of the AC, Associate Professor Minutes No. 4 dated " 04 2025	Kauyzbay Zh.A.
Approved by the Clinical Council Chairman, Professor Protocol No. 8 dated "25" 04 2025	_Nurmashev B.K.

2025

Approved by the Academic Council Minutes No. 13 dated "2" 05

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Department of Microbiology, Allergology and Immunology

Educational program " Allergology and immunology (adults, children) "

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Educational Program Passport

1. Mission of the educational program

To be a recognized leader in the field of training competitive personnel, meeting the needs of resident doctors to achieve learning outcomes, providing the healthcare system and society with highly qualified allergists and immunologists.

2. Aim of educational program

Training of a highly qualified allergist-immunologist, including children, who has a system of universal professional competencies, who is able to provide assistance to patients with allergic diseases and pathology of the immune system both at the level of primary health care and specialized medical care, in accordance with the principles of evidence-based medicine.

3. Rationale for EP

The educational program in the specialty "Allergology and Immunology" has been developed in accordance with the current needs of the healthcare system, the increasing prevalence of allergic and immune-related diseases, as well as the shortage of narrowly specialized professionals in this field in the Republic of Kazakhstan. The program provides in-depth knowledge and practical skills in clinical immunology, as well as in the diagnosis and treatment of allergic diseases, making its graduates highly sought-after specialists in the labor market.

The "Allergology and Immunology" educational program is implemented in response to the strong public and clinical demand for narrowly specialized professionals, driven by changes in the population's disease patterns, environmental conditions, urbanization, and the growth of chronic non-communicable diseases. The need for allergologists-immunologists in Kazakhstan is very high at all levels of medical care. An allergologist-immunologist is an expert in modern methods of diagnosing and treating immunopathologies.

The need of medical organizations for allergists and immunologists is the rationale for the opening and training of specialists in this profile, primarily at the regional level, taking into account the main strategies and programs for the development of the healthcare system of the Republic of Kazakhstan.

4. Professional standard on the basis of which the educational program was developed

- Order of the Minister of Health of the Republic of Kazakhstan dated July 4, 2022 No. RK DSM-63 "On the approval of state compulsory standards for levels of education in the field of healthcare";
- Professional Standard "Allergology and immunology (adults and children)" (Order of the Minister of Health of the Republic of Kazakhstan dated January 25, 2024 No. 46 "On the approval of professional standards in the field of healthcare");
- On amendments and additions to the orders of the Minister of Health of the Republic of Kazakhstan "On the approval of the list of medical specialties for residency programs" dated May 25, 2021 No. RK DSM-43 and "On the approval of model curricula for medical and pharmaceutical specialties" dated January 9, 2023 No. 4 (Order of the Minister of Health of the Republic of Kazakhstan dated November 10, 2023 No. 164).

5. Area of professional activity. Healthcare

6. Objects of professional activity.

Medical organizations providing outpatient and inpatient care, healthcare systems of the Republic of Kazakhstan.

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General information

No	Name fields	Note	
1	Registration number	7R01100261	
2	Code and classification of field of education	7R01 Healthcare (medicine)	
3	Code and classification of areas of training	7R011 Healthcare	
4	Group of educational programs	7R01103 "Allergology and immunology (adults, children)" "Allergology and immunology (adults, children)"	
5	Code and name educational programs	"Allergology and immunology (adults, children)"	
6	EP type	Revised	
7	Level according to ISCED	7	
8	Level according to NRC		
9	Level according to ORK	7	
10	Distinctive features of EP	7	
11	List of competencies	Compiled in accordance with the professional standard LC1 Patient supervision: able to formulate a clinical diagnosis,	
2		develop a treatment plan, and evaluate its effectiveness based on evidence-based practice at all levels of medical care; LC2 Communication and collaboration: able to interact effectively with patients, their families, and healthcare professionals to achieve the best outcomes for patients; LC3 Safety and quality: able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care; LC4 Public health: able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in their specialty, provide basic assistance in emergency situations, and work as part of interprofessional teams to implement national health promotion policies. LC5 Research: able to formulate appropriate research questions, critically evaluate professional literature, effectively use international databases in daily practice, and participate in research team work. LC6 Education and development: able to learn independently and teach other members of the professional team, actively participate in discussions, conferences, and other forms of continuous professional development.	
2		LO1 Able to effectively interact with the patient, and their environment, healthcare professionals in order to achieve the best results for the patient. LO2 Able to formulate a clinical diagnosis, prescribe a treatment plan for patients with allergic and immunopathological diseases and evaluate its effectiveness based on evidence-based practice at all levels of medical care; LO3 Able to assess risks and use the most effective methods to	

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		ensure a high level of safety and quality of care during therapy. LO4 He is able to formulate adequate research goals and objectives, critically evaluate the specialized literature on allergy and immunology, effectively use international databases in their daily activities, and participate in the work of a research team. LO5 Able to train independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development. LO6 Able to act within the legal and organizational framework of the health system of the Republic of Kazakhstan in the specialty "Allergology and Immunology", to provide basic and extended assistans in critical and emergency situations, to work as part of interprofessional teams to implement police of strengthening the health of the nation. LO7 Able to apply the norms of current legal acts when preparing medical documentation, analyze statistical data, evaluate the quality of record keeping, use standard forms and protocols, demonstrate
10		accuracy and compliance with regulatory requirements.
13	Form training	Day time
14	Language training	Kazakh and Russian
15	Volume of credits	140 credits
16	Training period	2 years
17	Degree awarded	Allergist- immunologist for adults, children
18	Availability of an annex to the license for the direction of personnel training	KZ36LAA00011387
19	Availability accreditation of EP	Yes
	Name accreditation organ	"Independent Agency for Accreditation and Rating" IAAR
	Term actions accreditation	№KZ73LAA00011788. 26.05.2023 г25.05.2028г.
20	Information about disciplines	Appendix A. 2

Appendix A.1.

Matrix for correlating learning outcomes for the educational program as a whole with developing competencies

	LO 1	LO 2	LO3	LO 4	LO5	LO 6	LO 7
LC1	+	+	+				
LC2		+		+			+
LC3			+		+		
LC4				+			
					+		
LC5 LC6	E RESIDENCE	DE LEGIS				+	

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Competency/learning outcome attainability matrix

Appendix A.2.

No	Name of the discipline	Brief description of the discipline	Cycle	Compo	Amount of credits	Formed LO (codes)
1	Clinical immunology and allergology outpatient, adult (Clinical immunology and allergology in primary health care, Assessment of the immune system. Immunotropic therapy, Laboratory diagnostics in immunology and allergology)	The discipline develops the ability to collect and analyze medical history, interpret data, apply in vivo and in vitro diagnostic methods, and identify symptoms and complications in adults. It enables students to prescribe treatment, nutrition, allergenspecific immunotherapy (ASIT), organize dispensary observation and hospitalization. The course also teaches planning of rehabilitation, maintaining medical documentation, and analyzing statistics in accordance with regulatory requirements. It includes the development of rehabilitation plans using artificial intelligence and encourages participation in research and scientific projects.	PD	UC	34	LO1 LO2 LO4 LO7
2	Clinical Immunology andallergology outpatient, children's (Vaccines, vaccinoprophylaxis. Prevention, dispensary supervision, rehabilitation of children with allergic pathology. Emergency conditions in allergology in children)	The discipline develops the ability to collect and analyze medical history, interpret data, apply in vivo and in vitro diagnostic methods, and identify symptoms and complications in children. It enables students to prescribe treatment, nutrition, allergenspecific immunotherapy (ASIT), organize dispensary observation and hospitalization. The course also includes planning of rehabilitation, maintaining medical documentation, and analyzing statistics in	PD	UC	34	LO1 LO2 LO4 LO7

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		accordance with regulatory requirements. It covers the development of rehabilitation plans using artificial intelligence and fosters participation in research and scientific projects.				
3	Clinical Immunology allergology in hospital, adult (Fundamentals of Immunology. Immunodeficiency conditions. Clinical immunology and allergology in the hospital. Allergology, autoimmune diseases. Immunoproliferative diseases)	Specialized and highly specialized care for adult with allergic and immunological diseases. Modern ideas about allergic diseases of the respiratory tract, gastrointestinal tract, skin; indications contraindications to nonspecific technique; principles of immunotherapy for immunodeficiency states, laboratory methods for diagnosing immunity.	PD	UC	33	LO3 LO5 LO6
4	Clinical Immunology and allergology in the hospital, children 's (Topical issues of pediatric immunology and allergology. Differential diagnosis of allergic diseases in children. Principles of diagnosis of allergic diseases in children. Modern methods of treatment of allergic diseases)	Topical issues of pediatric immunology and allergology. Differential diagnosis of allergic diseases in children. Principles of diagnosis of allergic diseases in children. Modern methods of treatment of allergic diseases. Immunization and prevention of post-vaccination complications. Protocol for the diagnosis and treatment of allergic diseases and diseases of the immune	PD	UC	33	LO3 LO5 LO6
5	Allergen-specific immunotherapy	system in children. The discipline develops knowledge and skills in the diagnosis and treatment of allergic diseases, in providing emergency allergological care to children and adults with various acute conditions and with varying degrees of severity. Modern functional methods for the diagnosis of	PD	EC	2	LO3 LO4 LO5

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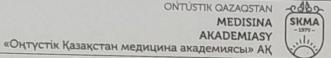
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		macro in the state of the state				
6	Differential	respiratory diseases in children and adults. Features of allergen-specific immunotherapy (ASIT), a specific method of treating allergic diseases. International programs GOLD, GINA, ARIA, ICCAD.				
	diagnosis of allergodermato sis	Differential diagnosis and treatment of allergic skin diseases. Methods of providing care to patients with severe common allergodermatosis. The role of genetic factors in the development of atopic dermatitis. Modern methods of treatment of noncommunicable skin diseases according to clinical protocols.	PD	EC	2	LO1 LO2 LO6
7	Innovations in allergology. Molecular allergology	The discipline forms knowledge on molecular allergodiagnostics, methods of molecular component allergodiagnostics that increase the accuracy of diagnosis, the development of recombinant allergens, for accurate diagnosis and effective implementation of allergovaccination by allergen-specific immunotherapy (ASIT), which allows to increase the sensitivity of the method several times compared to other methods and will allow for more accurate allergen-specific immunotherapy.	PD	EC	2	LO1 LO6
8	Clinical pharmacology in allergology and immunology	The discipline forms knowledge of clinical pharmacology of medicines, skills of medical clinical and pharmacological thinking on the justification and implementation of rational	PD	EC	2	LO3 LO5

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		pharmacotherapy, using evidence-based medicine, on the proper use of clinical guidelines based on a personalized approach to the selection of medicines and their doses, taking into account the pathological and physiological profile of the patient				
9	Modern aspects of diagnosis and treatment of allergic diseases	Programs and algorithms for laboratory diagnostics, differential diagnostics, and modern therapy of allergic diseases. Immunological research methods and their significance in the diagnosis of allergic diseases. Modern immunological analyzers and equipment. Quality management of laboratory immunological studies. Modern pharmacotherapy of allergic diseases according to treatment protocols.	PD	EC	2	L01 L03 L06
	Total	The state of the s			138	
	Final examination				2	
	Total				140	

Professional standard: « Allergology and immunology (adults and children) »

Profession card "7.2 Allergist and immunologist"	Mandatory job functions:	1. Diagnosis of allergic diseases and immunodeficiency states in patients (adults, children). 2. Treatment of allergic diseases and immunodeficiency states in patients (adults, children) with observance of continuity at all stages 3. Conducting medical examinations of patients with allergic diseases and immunodeficiency states. 4. Organization, implementation and monitoring of the effectiveness of measures aimed at preventing allergic diseases and immunodeficiency states and their complications among the population 5. Participation in the management of medical documentation, medical and statistical information
	Additional job functions:	Continuous professional development
Job function 1: Diagnosis of allergic diseases and immunodeficiency states in patients (adults, children).	Skill 1: Examination of a patient with allergic diseases and immunodeficiency states	Skills: 1. Collect anamnesis and complaints from patients (their legal representatives). 2. Interpret and analyze information obtained from patients (their legal representatives). 3. To identify clinical and physiological features in the course of allergic diseases and immunological conditions in patients (adults, children). 3. Apply clinical methods of examination of patients (adults, children) with allergic diseases and immunodeficiency states, identifying characteristic signs and symptoms of the disease. 4. Justify the appointment of diagnostic (laboratory, instrumental, immunological) studies for patients (adults, children) with allergic diseases and immunodeficiency states. 5. Possess skills in specific allergological and immunological diagnostics in vivo: skin, intradermal tests, prick tests, patch tests, scarification tests, application and provocation tests. 6. Conduct specific allergological and immunological diagnostic tests in vivo: inhalation, sublingual, conjunctival 7. Determine the need to use in-vitro diagnostic methods - early childhood, high degree of sensitization, polyvalent sensitization, recurrent course of the disease, special research methods for

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patients, urticarial dermographism, false positive or negative skin tests and 8. Analyze, interpret and evaluate the results of examination of patients (adults, children) with allergic diseases and immunodeficiency states. 9. Identify possible causes of allergic diseases, differentiate general and specific signs of the disease. symptoms and syndromes 10. Identify side effects, adverse reactions, complications, including serious and unexpected ones, that arise as a result of diagnostic procedures in patients with allergic diseases and (or) immunodeficiency states. Knowledge: 1. Methods of clinical, laboratory, immunological examination of patients with allergic pathology and immunodeficiency states. indications contraindications use. 2. Technique for performing specific allergological and immunological diagnostic methods in vivo: skin, intradermal tests, prick tests, patch tests, scarification tests, application and provocation tests, inhalation, sublingual. conjunctival 3. Medical indications and contraindications for the diagnostic in-vitro 4. Features of the indicators of diagnostic methods in vivo and in-vitro for various allergic diseases and immunodeficiency states, taking into account the patient's 5. Causes of development of allergic diseases and immunodeficiency states, differential diagnostic features in various allergic and immunological states. 6. Symptoms of complications, side effects, adverse reactions, including serious and unexpected ones, arising as a result of diagnostic procedures in patients with allergic diseases and immunodeficiency states. Possibility of skill Skill recognition is recommended recognition: Skill 2: Establishing a Skills: diagnosis taking into 1. To establish a diagnosis in accordance with ICD-10 account the current within the framework of medical services in the International Statistical specialty "Allergology and immunology (adult, Classification of pediatric)". 2. Conduct differential diagnostics of allergic Diseases and Related diseases and immunodeficiency states. Health Problems 3. Assess the severity of the condition of patients (hereinafter referred to

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	as ICD)	(adults, children) with allergic diseases and immunodeficiencies. 4. Identify complications of
		allergic and immunodeficiency conditions.
		Knowledge: 1. Clinical symptoms of allergic diseases, improve deficiency states.
		immunodeficiency states 2. Diagnostics, differential diagnostics, possible complications. 3. International Statistical
		Classification of Diseases and Related Health Problems (ICD)
	Possibility of skill recognition:	Skill recognition is recommended
Job Function 2: Treatment of allergic diseases and immunodeficiency states in patients (adults, children) with observance of continuity at all stages	recognition: Skill 1: Prescribing and administering treatment for allergic diseases and immunodeficiency states in patients (adults, children), monitoring its effectiveness and safety.	Skills: 1. Prescribe non-drug and drug treatment to patients with allergic diseases and/or immunodeficiency states. 2. Prescribe the necessary treatment taking into account the allergens that cause allergic reactions in a given patient (adults, children). 3. Create a plan for managing patients (adults, children) with immunodeficiencies. 4. Create a plan for managing patients (adults, children) with allergy pathology and immunodeficiency states. 5. Apply pharmacotherapeutic methods for the treatment of concomitant diseases and complications in patients with allergic diseases and immunodeficiency diseases and conditions. 6. Prescribe therapeutic nutrition taking into account general factors, the nature of the disease and the spectrum of the patient's sensitization. 7. Draw up and justify a patient treatment plan for ASIT. 8. Select and refer patients with allergic diseases and immunodeficiency states for hospitalization: 1) to a day hospital under the State Fund for Free Medical Care and the Compulsory Medical Insurance; 2) for inpatient treatment under the State Fund for Medical Care and the Compulsory Medical Insurance. 9. Determine the scope and sequence of necessary measures to provide assistance to patients (adults, children) with allergic diseases and immunodeficiencies. 10. Draw up a plan for managing patients (adults, children) with allergic diseases and immunodeficiencies.
		children) with allergic diseases and immunodeficiencies in outpatient and inpatient

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	settings. 11. Conduct dispensary observation of patients (adults, children) and prevention of allergic diseases and immunodeficiencies. 12. Participate in the selection of patients with allergic diseases and immunodeficiency states, referral and administration of GIBT drugs, replacement therapy.
	Knowledge: 1. Methods of non-drug treatment of allergic diseases and immunodeficiency states. Medical indications and contraindications. Possible complications, side effects, adverse reactions, including serious and unexpected ones. 2. Methods of drug treatment of allergic diseases and immunodeficiency states. Mechanisms of action of drugs, their interactions, side effects. 3. Medical indications for planned and emergency hospitalization of patients (adults, children) with allergic diseases and immunodeficiency states. 4. Principles of diet therapy for patients (adults, children) with allergic diseases and immunodeficiency states. 5. Fundamentals of organizing the work of an allergological or immunological hospital or department. Allergological or immunological office at the level of primary health care.
Possibility of skill recognition:	Skill recognition is recommended
Skill 2: Prescribing and administering allergenspecific immunotherapy (ASIT) to patients with allergic diseases	Skills: 1. Determine indications and contraindications for ASIT for allergic diseases in patients (adults, children). 2. Draw up a scheme for conducting and monitoring ASIT therapy. 3. Prepare dilutions of individual allergens for allergen-specific immunotherapy. 4. Give injections of allergens during allergen-specific immunotherapy. Knowledge: 1. Medical indications and contraindications for immunosuppressive and biological therapy. 2. Monitoring the efficacy and safety of allergen-specific immunotherapy for patients with allergic

diseases.

Methods

3. Mechanisms of action of ASIT. Medical indications and contraindications for the use of ASIT.

implementation.

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	4. Symptoms and syndromes of complications, side effects, adverse reactions, including serious and unexpected ones, arising as a result of ASIT in patients with allergic diseases. 5. Standardization of allergens, SIT schemes.
Possibility of skill recognition:	Skill recognition is recommended
Skill 3: Planning and monitoring the effectiveness of medical rehabilitation of patients (adults, children) with allergic diseases and immunodeficiency states	Skills: 1. Determine medical indications for medical rehabilitation measures for patients with allergic diseases and immunodeficiency states. 2. Determine medical indications for referring patients with allergic diseases and immunodeficiency conditions to specialist doctors for the appointment and implementation of medical rehabilitation and spatreatment. 3. Develop a plan of measures for the rehabilitation of patients with allergic diseases and immunodeficiency states. 4. Develop individual rehabilitation and habilitation programs for persons with disabilities. 5. Monitor the effectiveness of medical rehabilitation. Knowledge:
	 Fundamentals and methods of medical rehabilitation of patients with allergic diseases and immunodeficiency states. Medical indications and medical contraindications for medical rehabilitation of patients with allergic diseases and immunodeficiency states.
Possibility of skill recognition:	Skill recognition is recommended
Skill 4: Providing emergency medical care to patients (adults, children) with allergic diseases and immunodeficiency states.	Skills: 1. Recognize life-threatening conditions, including clinical death (cessation of vital functions of the human body (circulation and/or respiration) requiring emergency medical care. 2. Assess the cause and severity of the patient's condition and take the necessary measures to bring the patient out of this condition. 3. Perform cardiopulmonary resuscitation measures. 4. Provide emergency medical care in life-threatening conditions, including clinical death (cessation of vital functions of the human body (circulation and/or respiration). 5. Use medicinal products and medical devices when providing emergency medical care.

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	Possibility of skill	6. Conduct an assessment of the effectiveness and safety of the use of drugs and medical devices in the provision of emergency medical care. 7. Identify critical conditions in allergic diseases and immunodeficiency states in conditions outside a medical organization. Knowledge: 1. Clinical signs of sudden cessation of blood circulation and/or respiration. 2. Cardiopulmonary resuscitation 3. Methods for identifying critical conditions in patients outside of a medical organization. 4. Methods of intensive care and resuscitation for allergic diseases and immunodeficiency states outside of a medical organization. Skill recognition is recommended
	recognition:	
Job function 3: Conducting medical examinations of patients with allergic diseases and immunodeficiency states.	Skill 1: Disability Assessment	Skills: 1. Formulate medical conclusions based on the results of medical examination. 2. Determine the signs of temporary disability and signs of persistent dysfunction of the human body caused by allergic diseases and immunodeficiency states and the need for care when issuing a sick leave certificate for caring for sick family members. 3. Refer patients with allergic diseases and immunodeficiency states for medical and social examination. 4. Prepare the necessary medical documentation for patients with allergic diseases and immunodeficiency states to undergo medical and social examination. 5. Issue a certificate of incapacity for work for patients with allergic diseases and immunodeficiency states.
		Knowledge: 1. Order of the Minister of Health of the Republic of Kazakhstan dated November 18, 2020 No. ҚР ДСМ-198/2020 "On approval of the rules for conducting an examination of temporary disability, as well as issuing a sheet or certificate of temporary disability" (registered with the Ministry of Justice of the Republic of Kazakhstan on November 20, 2020 No. 21660). 2. Preparation of medical documentation for the implementation of medical and social expertise. 3. Medical indications for referring patients with

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		persistent dysfunction of the body caused by poisoning and its consequences, for medical and social expertise.
	Possibility of skill recognition:	Skill recognition is recommended
Labor function 4: Organization, implementation and control of the effectiveness of measures aimed at preventing allergic diseases and immunodeficiency states and their complications among the population	Skill 1: Organization, implementation and control of the effectiveness of measures aimed at preventing allergic diseases and immunodeficiency states and their complications among the population	Skills: 1. Organize and implement training for patients with allergic diseases and diseases of the immune system on preventing contact with allergens (including hygiene rules, lifestyle, diet), stress management strategies. 2. Conduct prevention of infectious complications in patients with primary immunodeficiency states. 3. Conduct information campaigns for the general public about allergic diseases and diseases of the immune system 4. Organization of medical programs for early detection of allergic and immunodeficiency conditions. 5. Training of medical personnel in diagnosis and treatment of allergic and immunodeficiency conditions. Knowledge: 1. Principles and features of prevention of allergic diseases and immunodeficiency states and their complications. 2. Adaptation of information and approach to teaching depending on the age and interests of the listeners. 3. Methods and means of informational and educational work (posters, brochures, presentations, multimedia materials). 4. Methods of prevention of allergic diseases. 5. Principles of medical ethics and confidentiality of
	Possibility of skill recognition;	patient data. Skill recognition is recommended
	Skill 2: Conducting vaccination prophylaxis in patients (adults, children) with allergic diseases and immunodeficiency states.	Skills: 1. Develop an individual schedule of immunoprophylaxis for patients with allergies and immunodeficiency diseases and conditions. 2. Determination of indications and contraindications for vaccination in patients with allergic diseases and immunodeficiency states. 3. Assessment of the severity of the condition of patients (adults, children) with allergic diseases and immunodeficiencies to

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	Possibility of skill recognition:	assess the possibility of vaccination. Knowledge: 1. Medical indications and contraindications for vaccination in patients with allergic diseases and (or) immunodeficiency states. 2. Risk assessment and development of vaccination strategies in patients with allergies and immunodeficiency diseases and conditions. 3. Side effects of vaccination. Skill recognition is recommended
Job Function 5: Participation in the management of medical documentation, medical and statistical information	Skill 1: Maintaining medical records, analyzing medical and statistical information, in accordance with the requirements of regulatory legal acts in the field	Skills: 1. Plan work and prepare a report with an analysis of your own performance indicators. 2. Maintain medical records, including in electronic form, and monitor the quality of their maintenance. 3. Conduct an analysis of medical and statistical indicators of the work of the specialized medical department. 4. Use personal data of patients and information in work in accordance with the law. 5. Use information systems in accordance with the established procedure.
		Knowledge: 1. Order of the Acting Minister of Health of the Republic of Kazakhstan dated October 30, 2020 No. RK DSM -175/2020 "On approval of forms of accounting documentation in the field of healthcare, as well as instructions for filling them out (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. RK DSM - 313/2020 "On approval of forms of reporting 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. RK DSM - 244/2020 "On approval of the rules for maintaining primary medical documentation 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.

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		5. Confidentiality of patients' medical information. 6. Fundamentals of medical statistics.
	Possibility of skill recognition:	Skill recognition is recommended
Additional job function 1: Continuous professional development	Skill 1: Striving for professional improvement	Skills: 1. Participate in professional training events: conferences, seminars, webinars, advanced training courses. 2. Participate in academic and scientific activities. 3. Take part in the work of professional associations, committees and working groups to discuss health issues and exchange experiences with colleagues. Knowledge: 1. Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. RK DSM - 303/2020 "On approval of the rules for additional and informal education of specialists in the field of health care, qualification requirements for organizations implementing educational programs of additional and informal education in the field of health care, as well as the rules for recognizing the learning outcomes obtained by specialists in the field of health care through additional and informal education (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21847). 2. Order of the Minister of Health of the Republic of Kazakhstan dated December 20, 2020 No. RK DSM - 283/2020 "On approval of the rules for confirming the results of continuous professional development of healthcare workers" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21843). 3. Opportunities to network and communicate with colleagues in your professional field. 4. Current trends, research and developments in your specialized field.
	Possibility of skill recognition:	Skill recognition is recommended
Requirements for ersonal competencies:	Empathy Communication skills Tolerance and respect Collaboration and team Stress resistance	work

Reflection and self-analysis	
Compliance with professional ethics Openness and willingness to learn	
Activity and initiative; Striving for professional development	

Correspondence of learning outcomes (LO) to the work functions of the professional standard

No.	RO	Labor functions
1	LO1 Able to effectively interact with the patient, and their environment, healthcare professionals in order to achieve the best results for the patient.	Additional work function 1 Continuous professional development
2	LO2 Able to formulate a clinical diagnosis, prescribe a treatment plan for patients with allergic and immunopathological diseases and evaluate its effectiveness based on evidence-based practice at all levels of medical care;	Labor function 1 Diagnosis of allergic diseases and immunodeficiency states in patients (adults, children). Labor function 2 Treatment of allergic diseases and immunodeficiency states in patients (adults, children) with observance of continuity at all stages
3	LO3 Able to assess risks and use the most effective methods to ensure a high level of safety and quality of care during therapy.	Labor function 1 Diagnosis of allergic diseases and immunodeficiency states in patients (adults, children). Labor function 2 Treatment of allergic diseases and immunodeficiency states in patients (adults, children) with observance of continuity at all stages
4	LO4 He is able to formulate adequate research goals and objectives, critically evaluate the specialized literature on allergy and immunology, effectively use international databases in their daily activities, and participate in the work of a research team.	Additional work function 1 Continuous professional development
5	LO5 Able to train independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.	Additional work function 1 Continuous professional development
6	LO6 Able to act within the legal and	Labor function 2

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	organizational framework of the health system of the Republic of Kazakhstan in the specialty "Allergology and Immunology", to provide basic and extended assistans in critical and emergency situations, to work as part of interprofessional teams to implement police of strengthening the health of the nation.	Treatment of allergic diseases and immunodeficiency states in patients (adults, children) with observance of continuity at all stages
7	LO7 Able to apply the norms of current legal acts when preparing medical documentation, analyze statistical data, evaluate the quality of record keeping, use standard forms and protocols, demonstrate accuracy and compliance with regulatory requirements.	Labor function 5 Participation in the management of medical documentation, medical and statistical information

ОВПСТЕМЕЛІК В В. Z. ОРТАЛЫҒЫ

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