



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

EDUCATIONAL PROGRAMME
7R09111

«Infectious diseases (adults, children)»

Shymkent, 2025.

ONTÜSTİK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA 1979	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Infectious Diseases and Dermatovenereology		49/27-2025
Education program of «Infectious diseases (adults, children)»		2 p. from 18 p.

Residency educational programme 7R01111 «Infectious diseases (adults, children)»
is developed by the Department of Infectious Diseases and Dermatovenereology

Head of the Department,

Candidate of Medical Sciences, Professor Abuova G.N.

Protocol № 8 from « 28 » 03 2025

Agreed with the employer:

Chief freelance infectious disease specialist of Shymkent,

Chief physician of the City infectious diseases hospital of Shymkent

Hospital of Shymkent

Erezhepov B.A.

Discussed at the meeting of AK

therapeutic profile

Chairman of AC, Associate Professor

Kauyzbay J.A.

Protocol № 4 from « 21 » 04 2025.

Approved at the Clinical Council

Chairman, Professor

Nurmashev B.K.

Protocol № 8 from « 25 » 04 2025.

Approved by the Academic Council

Protocol № 13 from « 02 » 05 2025.

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA - 1979 -	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
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Educational program passport

1. Mission of educational program:

To be a recognized leader in the field of training competitive personnel, meeting the need of the resident physician to achieve learning outcomes, providing the health care system and society with highly qualified infectious disease doctors.

2. EP purpose

Preparation of a qualified, competitive, modern, quality doctor, infectious disease specialist with a system of universal and professional competencies, capable and ready for independent professional work in outpatient settings and inpatient hospitals, including high-tech, specialized, medical care and the organization of anti-epidemic measures.

3. Objectives of the educational program:

- To ensure the integration of practice and theory
- In-depth study of the theoretical issues of infectious diseases;
- Improvement of practical skills in modern principles of early, differential and syndromic diagnosis, interpretation of the results of the examination from the position of evidence-based medicine, treatment and prevention of infectious diseases in adults and children, the organization of anti-epidemic measures in foci of infection; foci of SARS.
- Independent implementation of qualified emergency medical care in the clinic of infectious diseases

3. Rationale for the educational program:

The residency in the specialty "Infectious diseases (adults, children's)" has students for a more in-depth study of issues and mastering practical skills, algorithms for the clinic and diagnosis of infectious diseases in adults and children, knowledge and understanding of the causal relationships of the infectious process, features of immunological aspects, vaccine prophylaxis, coverage of such unresolved problems of infectious pathology as: the emergence of new infections caused by previously unknown infectious agents (microorganisms) that cross the interspecies barrier between animals and humans appearing in an unusual geographical area; the appearance of drug-resistant forms of pathogens; a feature of modern infectious pathology, where the dominant and increasing role of viruses as etiological agents, especially newly detected infections, is manifested; unfavorable situation with the diagnosis of viral intestinal infections, which is fully carried out only in single laboratories; the problem of hospital-acquired infections (HAI), the lack of full registration, the untimely implementation of preventive measures that contribute to the spread of HAI; the lack of full registration of infectious agents, which leads to the fact that a number of so-called "somatic" diseases considered non-infectious were caused by various bacteria and viruses.

The need for training in the residency of infectious disease doctors is due to the need of medical organizations for infectious disease specialists, due to the unpredictable epidemiological situation in the world, the growing relevance of infectious disease, primarily at the regional level, taking into account the main strategies and programs for the development of the health care system at the international, national and regional levels, in order to increase the level of medical care to the population of the Republic of Kazakhstan.

4. Information about the educational program

Professional standard 'Infectious diseases (adults, children)' (Order of the Minister of Health of the Republic of Kazakhstan from 25 January 2024 №46 'On approval of professional standards in the field of health care'.

5. Area of professional activity. Health care

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

General information

№	Characteristics of the EP	Data
1	Registration number	7R01100258
2	Field of education	7R01 Health care (medicine)
3	Direction of personnel training	7R011 Healthcare
4	Group of educational programs	R011 "Infectious diseases for adults, children"
5	Educational program	7R01111 Infectious diseases (adults, children)
6	EP type	Updated educational program
7	Level on NQF	7
8	The level of the NRK	7
9	Level on SQF	7
10	EP distinctive features	no
	Partner University (SOP)	
	Partner University (SOP)	
11	List of core competencies	CC1 Providing specialized infectious care at the outpatient level. Providing specialized care to patients with infectious diseases at the inpatient level.. CC 2 Providing specialized infectious care at the outpatient level. Providing specialized care to patients with infectious diseases at the inpatient level. CC 3 Provision of general and emergency medical care to the population with infectious diseases. Providing specialized infectious care at the outpatient level. Providing specialized care to patients with infectious diseases at the inpatient level CC 4 Provision of general and emergency medical care to the population with infectious diseases. CC 5 Participation in the management of medical records, medical and statistical information CC 6 Continuous professional development.

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12	Learning outcomes:	LO 1. Supervision of an adult and child infectious patient: able to perform diagnostic examination methods, interpret their results, formulate a clinical diagnosis, assign a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of medical care LO 2. Communication and collaboration: able to effectively interact with patients of infectious profile, their environment, health professionals in order to achieve the best results for the patient, to comply with the principles of medical ethics and deontology. LO 3. Safety and quality: able to assess the risks of infectious diseases in adults and children, diagnose and provide emergency care for threatening conditions, and use the most effective methods to ensure a high level of safety and quality of medical care. LO 4. Public health: able to act within the legal and organizational framework of the health system of the Republic of Kazakhstan on infectious diseases in adults and children, provide basic assistance in emergency situations, conduct anti-epidemic measures, work as part of interprofessional teams to implement the policy of strengthening the health of the nation. LO 5. Research: "Formulates adequate research questions in the field of infectology, critically evaluates, analyzes and systematizes information, professional literature, effectively uses artificial intelligence (AI), international databases in its daily activities, participates in the work of the research team". LO 6. 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.	
13	The form of study	Full-time	
14	Language of education	russian, kazakh	
15	Volume of loans	140	
16	The duration of the training:	2 year	
17	Degree awarded, qualification	infectious disease doctor	
18	Availability of an appendix to the license for the direction of training	KZ 36LAA00011387	
19	Availability of OP accreditation	Have	
	Name of the accreditation body	IAAR	
	Existence of the annex to the license for the direction of personnel training The license number on the direction of training	№ KZ73LAA00011788. 10.06.2022-09.06.2027.	
20	Information about the disciplines	university component, elective component, major disciplines, basic disciplines Application 1.2	

Application 1.1

Code Reflects the labor function

	LO 1	LO2	LO3	LO4	LO5	LO6
CC1	+	+	+			
CC2		+		+		
CC3	+		+		+	
CC4			+			
CC5			+		+	
CC6						+

Application 1.2

№	Name of the discipline	Short description of discipline	Cycle discipline	Com ponet	Num ber of cre dits.	For Med EO
1	Children's infectious diseases in the clinic	Outpatient management of infectious diseases in children. The principles of operation of the KIZ. Algorithms for early and differential diagnosis of syndromes: feverish-intoxication, catarrhal-respiratory, meningoencephalitic, jaundice, diarrhea, exanthema, lymphadenopathy. Principles of examination, treatment at the outpatient stage, determination of rates of hospitalization, emergency care in accordance CP PH RK on nosology. Anti-epidemic measures. Prophylactic medical examination. Rehabilitation . Vaccination of infectious diseases..	PD	UC	17	ER 1 ER 2 ER4
2	Infectious diseases in the clinic	Organization of outpatient infectious diseases services. Accounting and reporting documentation. Algorithm for diagnosis and differential diagnosis of syndromes: diarrhea, pharyngeal lesions, exanthema, fever, jaundice, meningeal syndrome, etc. in the conditions of a polyclinic. Tactics of management of patients at the pre-hospital stage. Emergency. Protocol of therapeutic and anti-epidemic measures. Mandatory methods of examination for HIV infection and AIDS-associated diseases. Medical examination, rehabilitation of infectious diseases.	PD	UC	17	ER 1 ER 2 ER 4

3	Infectious diseases in the hospital	Medicine in infectious diseases. Organization of care for infectious diseases in adults in a hospital. Intestinal infection. Viral hepatitis. Airborne droplet infection. Zoonotic infection. Infections of the external integument. Herpetic infection. HIV infection. Vector-borne infections. Rickettsioses. Seasonal encephalitis. Protozooses. Helminthiasis. Emergency conditions in the clinic of infectious diseases. Methods of clinical and laboratory instrumental diagnostics with the use of Artificial Intelligence, treatment and prevention in accordance with the CP of the Ministry of health of the Republic of Kazakhstan on nosology. Evidence-based medicine in Infectology..	PD	UC	50	ER 1 ER 3 ER 5
4	Infectious diseases of children in a hospital	Organization of inpatient management of infectious diseases in children. Intestinal infection. Flu and ARVI. Neuroinfections. Herpetic infection. Viral hepatitis. Bacterial zoonoses. Infectious exanthems. Protozooses. Helminthiasis. Emergency conditions and intensive care: ITSH, sepsis, toxicosis with exicosis, brain edema, DIC-syndrome, BOS, ASLT, etc. Methods of diagnosis with the use of Artificial Intelligence, treatment and prevention in accordance with the CP of the Ministry of health of the Republic of Kazakhstan on nosology. The principles of DM and IMCI..	PD	UC	50	ER1 ER3 ER5
5	Current respiratory tract infections, including COVID-19	Diagnostics of infectious diseases of the respiratory tract (influenza, ARVI, COVID-19, respiratory chlamydia, mycoplasmosis, etc.), differential diagnostics of infectious diseases of the respiratory tract (including pregnant women), modern methods of therapy, complications and outcomes, principles of organization of preventive and anti-epidemic measures	PD	EC	2	ER1 ER3 ER6
6	Especially dangerous infections	Natural focal infections. Algorithms for the early and differential diagnosis of especially dangerous infections. Standard case definitions: plague, cholera, tularemia, brucellosis, anthrax, botulism, rabies, Congo-Crimean hemorrhagic fever. Laboratory	PD	EC	2	

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		diagnostics. Clinical treatment protocols, DM of especially dangerous infections. Emergency and intensive care in emergency conditions of OOI. Quarantine and anti-epidemic measures.				ER1 ER4 ER6
7	Infectious Hepatology	Diagnoses infectious liver diseases in adults, children and pregnant women. Uses methods of early and clinical-laboratory diagnostics with the use of Artificial Intelligence. (acute viral hepatitis A, B, C, D, E; chronic viral hepatitis B, C, D; liver cirrhosis of viral etiology; hepatitis caused by HPV, CMV, EBV). Applies algorithms of modern methods of therapy, prevention of complications, principles of organisation and anti-pidemic measures.	PD	EC	2	ER1 ER3 ER5
8	Modern problems of HIV infectio	Organization of the HIV and AIDS prevention and control service. Questions of medical ethics and deontology when working with infected and sick people with HIV/AIDS. Epidemiology, immunology, modern classification, clinical stages of HIV infection. HIV-associated infections. The terminal stage is AIDS. Anti-retroviral therapy: classification of drugs, indications for prescribing, doses, combination therapy regimens, effectiveness criteria.	PD	EC	2	ER2 ER3 ER2
Total					138	
Final certification					2	
Total					140	

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Professional standard: "Infectious disease doctor (adults, children)"

Profession Card "7.2. Infectious disease doctor (adults, children) "	
He main purpose of the activity: - prevention, - diagnostics, - treatment, - medical rehabilitation of patients (adults, children) with infectious diseases.	
Description of labor functions:	
Mandatory labor functions: Description of labor functions:	
1. Providing specialized infectious care at the outpatient level. 2. Providing specialized care to patients with infectious diseases at the inpatient level 3. Provision of general and emergency medical care to the population with infectious diseases. 4. Participation in the management of medical records, medical and statistical information	
Additional labor functions:	
1 Continuous professional development	
Labour function 1: Provision of specialized infectious care at the outpatient level.	
Ability to recognize a skill:	Skill recognition is recommended:
Skill 1: Examination of patients (adults, children) with infectious diseases at the outpatient level.	Skills: 1. Collect complaints, history of life and disease, epidemiological history in patients (their legal representatives) with infectious diseases and/or conditions. 2. Conduct physical examination of patients with infectious diseases and/or conditions (examination, palpation, percussion, auscultation). 3. Interpret and analyze information received from patients (their legal representatives) with infectious diseases and/or conditions. 4. To assess the anatomical and functional state of organs and systems in normal, diseases and/or pathological conditions in patients with infectious diseases. 5. Use methods of examination and examination of patients with infectious diseases and (or) conditions, taking into account age-related anatomical and functional characteristics. 6. Interpret and analyze the results of examination and examination of patients with infectious diseases and/or conditions. 7. Justify and plan the scope of instrumental examination of patients with infectious diseases and/or conditions. 8. Interpret and analyze the results of instrumental examination of patients with infectious diseases and/or conditions. 9. Justify and plan the scope of laboratory testing of patients with infectious diseases and/or conditions. 10. Interpret and analyze the results of laboratory tests of patients with infectious diseases and/or conditions. 11. Identify meningeal signs in children and adults. 12. Identify common signs of danger in children under 5 years of age. Knowledge: 1. Knowledge of the nomenclature of medical services related to the field of infectious diseases.



	2. Knowledge of the methodology for collecting complaints, history of life and illness, epidemiological history in patients (their legal representatives) with infectious diseases and/or conditions. 3. Knowledge of the methods of physical examination of patients (examination, palpation, percussion, auscultation). 4. Knowledge of the anatomical and functional state of organs and systems of the human body is normal and in patients with infectious diseases and/or conditions. 5. Knowledge of the etiology, epidemiology and pathogenesis of infectious diseases. 6. Knowledge of methods for diagnosing infectious diseases.
Skill 2: Diagnosis in patients (adults, children) with infectious diseases	Skills: 1. Skills in identifying in patients of different ages the main symptoms and syndromes in infectious practices, united on the principle of leading clinical signs, establishing and justifying a preliminary diagnosis. 2. Skills in establishing (confirming) a diagnosis based on clinical observations and examination, collecting a history, data from clinical and laboratory and instrumental studies. 3. Skills for diagnosis taking into account the current International Statistical Classification of Diseases and Related Health Problems (ICD 10). 4. Skills to reasonably prescribe laboratory, instrumental, or functional methods for investigating patients of various ages in infectology. 5. Interpret data from laboratory instrumental and functional methods for the study of patients of different ages in infectology. Knowledge: 1. Knowledge of clinical and functional research methods used in infectology, indications and contraindications to their conduct (microbiological, serological, immunological, morphological instrumental). 2. Knowledge of pathognomonic and possible changes in general clinical, biochemical, microscopic, cultural, cytological, serological, immunological and instrumental research methods in infectious diseases. 3. Knowledge of comorbid pathology in patients with an infectious profile (diseases of the nervous, immune, cardiovascular, endocrine, respiratory, digestive, urogenital systems and blood), its main clinical manifestations that can cause serious complications and/or death. 4. Knowledge of differential diagnosis of infectious profile diseases using a diagnosis algorithm (main, concomitant and complications).
Skill 3: Treatment of patients (adults, children) with infectious diseases at the outpatient level	Skills: 1. Skills to develop a treatment plan for patients with infectious diseases and/or conditions. 2. Justify the use of drugs, non-drug treatment for patients with infectious diseases and/or conditions. 3. Prescribe non-drug therapy to patients with infectious diseases and/or conditions. 4. Prescribe therapeutic nutrition to patients with infectious diseases and/or conditions. 5. Prescribe a therapeutic and health-improving regimen to patients with infectious diseases and (or) conditions.

6. Provide first aid for acute emergencies (croup syndrome, bronchial obstructive syndrome, convulsive syndrome, hyperthermia).

Knowledge:

1. Knowledge of patient treatments for infectious diseases and/or conditions.
2. Knowledge of the mechanisms of action of drugs, medical devices and medical nutrition used in infectious diseases and (or) conditions; medical indications and medical contraindications to prescribing; possible complications, side effects, adverse reactions, including serious and unforeseen.
3. Knowledge of non-drug treatments for infectious diseases; medical indications and medical contraindications; possible complications, side effects, adverse reactions, including serious and unforeseen.
4. Knowledge of indications for prescribing therapeutic nutrition to patients with infectious diseases and/or conditions.
5. Knowledge of first aid skills in acute emergencies: laryngeal stenosis, bronchial obstructive, hyperthermic, convulsive syndromes.

Skill 4:

Conducting dispensary observation of patients (adults, children) with infectious diseases, issuing sheets of temporary disability, medical examinations, medical examinations, including preliminary and periodic, disease prevention measures in organizations providing infectious care.

Skills:

1. Skills of filling out and sending an emergency notification of a case of infectious, parasitic, occupational and other disease, carriage of infectious disease agents, poisoning, adverse reaction associated with immunization, bite, shedding, scratching by animals to territorial bodies carrying out state sanitary and epidemiological supervision
2. Skills of prescribing preventive measures taking into account risk factors in accordance with the current procedures for the provision of medical care, clinical recommendations (clinical protocols) on the provision of medical care, sanitary and epidemiological rules, taking into account the standards of medical care.
3. Skills in organizing and conducting anti-epidemic measures in the event of a focus of infection, including quarantine measures in the identification of especially dangerous (quarantine) infections.
4. Skills in determining medical indications for the introduction of restrictive measures (quarantine).
5. Skills in outreach to contacts of patients with infectious diseases and/or conditions.
6. Skills in developing and implementing infectious disease control programs.
7. Health promotion skills, prevention of infectious diseases

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8. Skills in organizing sanitary and educational work and hygienic education, informing the population about modern means of preventing infectious diseases.
 9. Skills to assess the effectiveness of preventive work with the population and patients with infectious diseases and/or conditions.
 10. Skills of conducting an examination of temporary disability of patients with infectious diseases and (or) conditions and work as part of a medical commission of a medical organization that carries out an examination of temporary disability.
 11. Perform statistical accounting, reporting and analysis of statistical data.
 12. Develop an action plan for the rehabilitation of patients with infectious diseases and (or) conditions and their consequences, including during the implementation of an individual rehabilitation program or rehabilitation of persons with disabilities, in accordance with the current procedures for the provision of medical care, clinical recommendations (clinical protocols) on the provision of medical care, taking into account the standards of medical care.
 13. Carry out measures of medical rehabilitation of patients with infectious diseases and (or) conditions and their consequences, including when implementing an individual rehabilitation program or rehabilitation of persons with disabilities, in accordance with the current procedures for the provision of medical care, clinical recommendations (clinical protocols) on the provision of medical care, taking into account the standards of medical care.
 14. Determine medical indications for referring patients with infectious diseases and (or) conditions and their consequences to specialist doctors for prescribing and carrying out measures for medical rehabilitation, spa treatment, including during the implementation of an individual rehabilitation program or rehabilitation of persons with disabilities, in accordance with the current procedures for the provision of medical care, clinical recommendations (clinical protocols).
 15. Assess the effectiveness and safety of medical rehabilitation measures for patients with infectious diseases and/or conditions and their consequences, including in the implementation of a rehabilitation program or rehabilitation of persons with disabilities.
- Knowledge:
1. Knowledge of the features of statistical accounting, reporting and analysis of statistical data.
 2. Knowledge of the principles of organizing work on the prevention of infections associated with the provision of medical care.

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	3. Knowledge of the procedure for conducting explanatory work with contact persons of patients with infectious diseases and/or conditions. 4. Knowledge of the procedure for issuing and sending an emergency notification when an infectious or occupational disease is detected, submission of an extraordinary report on the occurrence of an emergency. 5. Knowledge of the organization of medical rehabilitation. 6. Knowledge of the basics of medical rehabilitation of patients with infectious diseases and/or conditions and their consequences. 7. Knowledge of the principles and features of wellness activities among patients with chronic infectious diseases. 8. Knowledge of the features of specific prevention of infectious diseases. 9. Knowledge of the basics of vaccine prevention of infectious diseases. 10. Knowledge of the national preventive vaccination calendar and vaccination calendar for epidemiological indications. 11. Knowledge of medical indications for referring patients with persistent impairment of body functions due to infectious diseases and (or) conditions and their consequences for medical and social expertise, requirements for the preparation of medical documentation.
Labour function 2: Providing specialized care to patients with infectious diseases at the inpatient level.	
Ability to recognize a skill:	Skill recognition is recommended:
Skill 1: Hospitalization and provision of qualified, specialized care for patients (adults, children) with infectious diseases at the inpatient level	Skills: - Skills of timely hospitalization in the presence of medical indications for the provision of inpatient medical care. - Skills of examination by an infectious disease specialist of an emergency room of a hospital not later than 10 minutes from the moment of admission in order to determine the patient's state of health, establish a preliminary diagnosis and determine a treatment plan and examination. Knowledge:.

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Skill 2: Examination and diagnosis, treatment planning in patients (adults, children) with infectious diseases at inpatient level.	Skills: 1. Medical history and physical examination skills. 2. Justify and prescribe clinical laboratory and instrumental examination of the patient in order to verify the diagnosis. 3. ICD final diagnosis skills 10. 4. Prescribe treatment according to available nosology and clinical protocols. 5. Skills of daily examination by the attending physician in order to correct diagnostic and therapeutic manipulations. 6. Perform lumbar puncture for diagnostic and therapeutic purposes. Knowledge: 1. Knowledge of methods for collecting anamnesis and examination, clinical and laboratory diagnostics. 2. Knowledge of the principles of diagnosis according to ICD 10, clinical protocols. 3. Knowledge of medical record keeping in patients with adult and pediatric infectious diseases at the inpatient level. 4. Knowledge of lumbar puncture technique
Skill 3: Management and dynamic follow-up of patients (adults, children) with infectious diseases at the inpatient level.	Skills: 1. In-patient medical record filling skills. 2. Organization skills, if necessary, and according to clinical protocols of timely consultations of related specialists. 3. Conduct an examination of temporary disability of patients, justification of temporary disability of patients and examination of persons with signs of persistent disability. 4. Patient discharge skills with documentation, issuance of discharge from the inpatient medical record. 5. The skills of the doctor to provide comprehensive information on the state of health of the child and the assistance provided in the absence of their parents or legal representatives. 7. Skills in treating pregnant women up to 30 weeks of gestation in need of examination and treatment for infectious diseases 8. Skills in specific treatment of minors brought from the Center for temporary isolation, adaptation, rehabilitation of minors, and persons without a fixed abode when infectious diseases are detected in them in a hospital. 9. Skills of encryption of diagnoses in order to protect information constituting a medical secret, in sheets of temporary disability and other documentation issued to patients with HIV infection for presentation at the place of work, study with a special code of diseases in accordance with ICD X revision. 10. Skills in making records in the medical record of a stationary patient indicating possible complications and consequences if a

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	patient with an infectious disease or his legal representative refuses medical care. 11. Skills in discharging patients from the hospital before completing the course of treatment (in the absence of an immediate threat to life) in case of violation of the day regimen established by the MO and (or) creating obstacles to the treatment and diagnostic process, infringement of the rights of other patients to receive proper medical care by the decision of the head of the MO. Knowledge: 1. Knowledge of the management of patients with infectious diseases of adult and childhood at the stationary level.
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Labour function 3: Provision of general and emergency medical care to the population with infectious diseases.

Ability to recognize a skill:	Skill recognition is recommended:
Skill 1: Examination and diagnosis, general and emergency medical care for patients (adults, children).	Skills: 1. Patient examination skills. 2. Consciousness assessment skills (Glasgow Adult and Pediatric Scale and AGBO Scale for Children Under 5). 3. Skills in diagnosing severe and life-threatening conditions: ACS (acute coronary syndrome), anaphylactic shock, respiratory arrest, bleeding, laryngeal stenosis, bronchial obstructive syndrome, convulsive and hyperthermic syndromes, syncope. 4. Perform basic CPR. 5. Provide emergency care for ACS. 6. Assist with anaphylactic shock. 7. Bleeding control skills. 8. Help with: hyperthermic syndrome, hypertensive crisis, pain syndrome, bronchial obstructive syndrome, laryngeal stenosis, convulsive syndrome. 9. Skills in removing superficially located foreign bodies of the respiratory tract to patients of various ages. 10. Determine the blood group, Rh factor, carry out a sample for compatibility of the blood of the donor and recipient and a biological sample. 11. Perform medical manipulations (injections, bladder catheterization, probing and gastric lavage, cleansing enemas, and others). 12. Perform picflowmetry and interpretation of results in adults and children of various ages. 13. Interpret spirometry results in adults and children of different ages. 14. Determine the blood group, Rh factor, sample for compatibility of the blood of the donor and the recipient.

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	Knowledge: 1. Knowledge of the methodology for collecting complaints and medical history from patients (their legal representatives). 2. Knowledge of the methods of physical examination of patients (examination, palpation, percussion, auscultation). 3. Knowledge of the scale for assessing consciousness (Glasgow, AGBO). 4. Knowledge of common danger signs and urgent/priority signs in children under 5 years of age. 5. Knowledge of the clinic of urgent conditions: ACS, anaphylactic shock, bleeding, respiratory arrest, foreign body of the respiratory tract, laryngeal stenosis, obstructive syndrome, convulsive syndrome, impaired consciousness, respiratory failure, syncope. 6. Knowledge of the tactics (technique) of emergency care in life-threatening conditions: 1) ACS; 2) anaphylactic shock; 3) basic CPR; 4) relief of bronchobstructive syndrome; 5) relief of laryngeal stenosis and monitoring of the condition (in children); 6) relief of convulsive, hyperthermic syndrome.
Labor function 4: Participation in the management of medical records, medical and statistical information.	
Ability to recognize a skill:	Skill recognition is recommended:
Skill 1: Maintenance of medical records, analysis of medical and statistical information, in accordance with the requirements of regulatory legal acts in the field of	Skills: 1. Plan work and prepare a report with analysis of own performance indicators.
Additional work function 1: Continuous professional development	
Ability to recognize a skill:	Skill recognition is recommended:

Навык 1: Стремление к профессиональному совершенствованию	Skills: 1. Participate in professional training events: conferences, seminars, webinars, refresher 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, exchange experience with colleagues. Knowledge: 1. Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. KP DSM-303/2020 "On approval of the rules for additional and non-formal education of health professionals, qualification requirements for organizations implementing educational programs of additional and non-formal education in the field of health, as well as rules for recognizing the results of training received by health 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. Order of the Minister of Health of the Republic of Kazakhstan dated December 20, 2020 No. KP DSM-283/2020 "On approval of the rules for confirming the results of continuous professional development of health workers" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21843). 3. Opportunities for networking and communication with colleagues from their professional field. 4. Current trends, research and development in a specialized field.
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Requirements for personal competencies:

- Empathy
- Sociability
- Tolerance and respect
- Collaboration and teamwork
- Stress resistance
- Reflection and introspection
- Compliance with professional ethics
- Openness and training readiness
- Activity and initiative
- Striving for professional development

Head of the Educational
and Methodological Center



B.Z.Doltaeva