

ҚАЗАҚСТАН РЕСПУБЛИКАСЫ  
СҰРЫЛМА  
АКАДЕМИЯСЫ  
«Южно-Казахстанская медицинская академия» АҚ



ЮЖНО-КАЗАХСТАНСКИЙ  
МЕДИЦИНСКИЙ  
АКАДЕМИИ  
АО «Южно-Казахстанская медицинская академия»



Approved  
Rector of SKMA JSC  
M. Mysbekov  
16 2023

## EDUCATIONAL PROGRAM

Group of the educational program: VM 086 Medicine

Code of the EP: 6B10115

Title of the educational program: Medicine

Level of the educational program: Bachelor and profile magistracy

Shymkent, 2023

ӘНДІСТАН ҚАЗАҚСТАН  
MEDICINA  
AKADEMIASY



СӨЛІП ҚАЗАҚСТАН  
MEDICAL  
ACADEMY

«Әндістiк Қаззақстан медицина академиясы» АҚ

АО «Южмед» Казахтiстандық медициналық академия»

Committee of the educational program "General Medicine"

Идені номер  
46стр. в 2


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The educational program was developed by the members of the "Medicine" EPC

Coordinated with employers:

Chief Physician of ShMP №1  Seidalina Zh.M.

Chief Physician of MHI №2  Posilov B.D.

Chairman of the "Medicine" EPC  Sadykova A.Sh.

Minutes No. 10 of 16 05 2023.

Agreed by the Methodological Council


Vice-Rector for EMW Anartayeva M.U. 

Minutes No. 12 of 06 06 2023.

Approved by the Academic Council

Minutes No. 12 of 04 06 2023.



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### Passport of the educational program

**1. Mission of the educational program:** Training of qualified and competitive personnel capable of self-improvement and scientific research.

**2. Purpose of educational program:** Training of master physician with a system of general cultural, professional and research competencies, capable and ready for practical activity.

**3. Rationale of the educational program:**

-for students: obtaining a continuous integrated medical education, including basic training -bachelor's degree, internship and master's degree.

At the end of 6 years of study the graduate will be awarded the academic degree of Master and receive a diploma with the qualification of a doctor.

-need on the labor market: providing personnel with qualities such as high skill and professional perseverance, availability of the necessary practical and theoretical knowledge, competence, observation and insight, developed clinical thinking and predilection.

**4. Professional standard, on the basis of which the educational program is developed:**

*Normative documents for the development of educational program*

- Order of the Minister of Science and Higher Education of the Republic of Kazakhstan "On approval of the state mandatory standards of higher and postgraduate education" of 20.07.2022, № 2 with amendments and additions of February 20, 2023, № 66;


- Order of the Minister of Healthcare of the Republic of Kazakhstan "On approval of the state mandatory standards for levels of education in the field of health care" of 04.07.2022, № KRDSM-63;

- Order of the Minister of Healthcare of the Republic of Kazakhstan "On approval of model curricula on medical and pharmaceutical specialties" of 09.01.2023, № 4;

- Order of the Vice-Minister of Healthcare of the Republic of Kazakhstan "On approval of step-by-step implementation of continuous integrated medical education" of 08.08.2022, № 661;

- Code of the Republic of Kazakhstan dated 07.07.2020 № 360- VI "On People's Health and Health Care System" (with amendments and additions as of 04.07.2022);

- Law of the Republic of Kazakhstan "On Education" dated 27.07.2007 № 319- III with amendments as of 04.07.2022

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- Order of the Minister of Education and Science of the Republic of Kazakhstan dated 16.10.2013 № 420 "On Approval of Standard Rules of Higher and (or) Postgraduate Education Organizations" with amendments and additions of 29.12.2021
- Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 № 152 "On approval of rules of educational process organization by credit technology of education" (as amended on May 06, 2021)
- Order of the Minister of Healthcare of the Republic of Kazakhstan dated January 30, 2008, №27 "On approval of the list of programs of continuous integrated education on clinical specialties" (as amended on May 14, 2021)
- Order of the Minister of Education and Science of the Republic of Kazakhstan from 30.10.2018 № 595 with amendments and additions as of 29.12.2021. "On approval of the Standard Rules of activity of educational organizations of respective types and kinds",
- Order of the Director of the BP AM № 45 o/d MES RK dated June 30, 2021. "Guidelines for the development of educational programs of higher and postgraduate education"
- "Regulations on the Order and Procedures for the Development of Educational Programs" "SKMA" JSC from 29.05.2019.
- Internal regulatory documents of SKMA JSC.


**5. Area of professional activity:** the area of professional activity of graduates who have mastered the educational program 6B10115 "Medicine" includes the protection of public health by providing medical care to both adults and children.

**6. Objects of professional activity:**


- healthcare management organizations;
- healthcare organizations;
- organizations of education;
- organization of science;
- organization of social protection;
- adult and child populations;
- a set of means and technologies aimed at creating conditions for the protection of public health.

***Types of professional activity:***

- therapeutic and preventive and diagnostic;
- organization and management;


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- scientific-research;
- pedagogical.


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### General information

№	EP characteristics	Notes
1	Registration number	6B10100121
2	Code and classification of the field of education	6B10 Healthcare
3	Code and classification of training areas	6B101 Healthcare
4	Group of educational programs	BM086 Medicine
5	Code, Name of the educational program	6B101015 Medicine
6	Type of the EP	New EP
7	ISCED level	
8	NQF level	6-7
9	IQF level	6-7
10	Distinctive features of EP	Continuous integrated educational program
	Partner University (CEP)	-
	Partner University (DDEP)	-
11	Key competences	<p><b>KC1 Medical knowledge:</b> demonstrate and put into practice knowledge in the field of biomedical, clinical, epidemiological and social behavioral sciences, including generally accepted, developing and constantly updated knowledge. Synthesis of professional and scientific medical knowledge for the provision of qualified medical care</p> <p><b>KC2 Communication:</b> Demonstrate interpersonal and communication skills leading to effective</p>


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		<p>information exchange and collaboration with patients, their families and healthcare professionals, including through the use of information technology. Effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient</p>
		<p><b>KC3 Клинические навыки:</b> обеспечивать эффективный пациент-центрированный уход, включающий в себя соответствующие и эффективные мероприятия, направленные на диагностику, лечение и профилактику заболеваний. Осуществление квалифицированной медицинской помощи базовой категории сложности. Определение стратегии оказания населению квалифицированной медицинской помощи второй категории сложности</p>
		<p><b>KC4 Professionalism: Профессионализм:</b> демонстрировать приверженность к выполнению профессиональных обязанностей и соблюдению этических принципов. Координация деятельности в организациях здравоохранения. Способность принимать решения и нести ответственность за результат оказания квалифицированной медицинской помощи</p>
		<p><b>KC5 Personal and professional development:</b> demonstrate the qualities necessary to maintain continuous personal and professional growth, continuous improvement of the quality of medical care based on constant self-assessment and lifelong learning. The ability to learn independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development</p>
		<p><b>KC6 Regulatory knowledge:</b> to be aware of and demonstrate responsibility for their actions within the framework of the current regulatory framework of the healthcare system and to be guided by them in their practical activities to ensure optimal medical care. The ability to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan</p>


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		<p><b>KC7 Research:</b> demonstrate the ability to research and evaluate the treatment outcomes of their patients, evaluate and implement treatment principles based on scientific evidence. The application of modern research methods in healthcare, taking into account bioethics, and the introduction of clinical practice.</p>
12	Learning outcomes	<p>LO1. Applies in practice fundamental knowledge in the field of biomedical, clinical, epidemiological and socio-behavioral sciences.</p> <p>LO2. Provides patient-centered care in the field of biomedical, clinical, epidemiological sciences, aimed at the diagnosis, treatment and prevention of the most common diseases.</p> <p>LO3. Carries out his/her activities within the framework of the legislation of the Republic of Kazakhstan in the field of health care to ensure quality health care services.</p> <p>LO4. Effectively communicates with patients, their families and medical professionals on the basis of compliance with the rules of ethics and deontology, leading to an effective exchange of information and cooperation.</p> <p>LO5. Demonstrates skills in formulating a clinical diagnosis, prescribing a treatment plan based on evidence-based practice.</p> <p>LO6. Conducts reception, diagnosis, treatment, dynamic observation and rehabilitation of children and adults, including pregnant women, based on the principles of evidence-based medicine.</p> <p>LO 7. Complies with the norms of public health protection, sanitary and hygienic regime and labor safety standards in health care organizations, epidemiological safety of the environment.</p> <p>LO 8. Provides emergency medical care for urgent and life threatening conditions.</p> <p>LO 9. It works in the electronic databases of the healthcare system of the Republic of Kazakhstan, providing documentation of the processes of providing medical services.</p> <p>LO10. Performs professional duties qualitatively on the basis of self-control and continuous improvement of its activities.</p>



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		LO11. Analyzes the effectiveness of diagnosis and treatment results, applying the principles of personalized medicine. LO12. Applies the results of modern research methods in his professional activity, taking into account bioethics. LO13. Evaluates the health indicators of the population and its physical, radiological, chemical and biological-ecological determinants. LO14. Conducts sanitary and educational activities to strengthen the health of the population, preserve health and prevent diseases.
13	Form of training	full-time
14	Language of training	Kazakh, Russian and English
15	Duration of the training	6 years
16	Amount of credits	360
17	Awarded academic degree, qualification	Master's degree, physician
18	Availability of an appendix to the license for the direction of personnel training	KZ36LAA00011387
19	Availability of EP accreditation	yes
	Name of the accreditation body	“Independent Agency for Accreditation and Rating” IAAR, 09.06.2020
	№ accreditation certificate, validity period of accreditation	Baccalaureate - № AB 4712, 26.05.2023г. - 25.05.2028г. Magistracy - № AB 4713, 26.05.2023г. - 25.05.2028г.
20	Information about disciplines	Application 1.2

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Application 1.1


**Matrix for correlating the learning outcomes of an educational program as a whole with the competences to be acquired**

LO KC	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12	LO13	LO14
KC 1	+	+	+	+	+				+					
KC 2	+		+	+	+	+	+		+	+	+			
KC 3	+			+	+	+		+	+		+	+	+	+
KC 4	+	+		+	+	+	+			+	+			
KC 5			+	+	+	+	+	+		+	+			
KC 6			+	+	+	+	+	+	+	+	+			
KC 7			+	+	+	+	+	+	+	+	+	+	+	+


Application 1.2

**Competence/learning outcome attainment matrix**


№	Name of discipline	Brief description of discipline	Cycle (GES, BD, SD)	Component (RC, UC, OC)	Credit number	EP Learning outcomes

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<b>Cycle of General education disciplines</b>						<b>56</b>
1	<b>History of Kazakhstan</b>	Formation of the worldview, civil and moral positions of the future specialist based on a deep understanding and scientific analysis of the main stages, patterns and originality of the historical development of Kazakhstan, as well as the ability to use the methods and techniques of historical description to analyze the causes and consequences of events in the history of Kazakhstan.	GES	RC	5	LO 1 LO 2 LO 3 LO 5
2	<b>Physical education</b>	Formation of a person who is competitive and capable of physical self-improvement through the skills of building a personal educational trajectory throughout life for self-development and career growth, focused on a healthy lifestyle to ensure full-fledged social and professional activities through methods and means of physical culture.	GES	RC	8	LO1 LO14
3	<b>Foreign language</b>	Formation of language using skills and speech means based on a system of grammatical knowledge for building communication programs in a foreign language, self-improvement and professional success; communication in oral and written forms in a foreign language to solve problems of interpersonal, intercultural and professional communication; analysis of information in accordance with the communication situation and the ability to interpersonal social and	GES	RC	10	LO1 LO4 LO10

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		professional communication in a foreign language.				
4	<b>Kazakh (Russian) language</b>	Formation of communication skills in oral and written forms in Kazakh and Russian languages to solve the problems of interpersonal, intercultural and professional communication; analysis of information in accordance with the communication situation and the ability to interpersonal social and professional communication in Kazakh and Russian languages; use of language and speech means based on the system of grammatical knowledge to build communication programs in Kazakh and Russian, professional success and self-improvement.	GES	RC	10	LO1 LO4 LO10
5	<b>Information and communication technology</b>	Formation of skills in information and communication technologies that contribute to the development of information literacy through the mastery and use of modern technologies in all areas of their lives and activities; use in personal activities of various types of information and communication technologies: Internet resources, cloud and mobile services for searching, storing, processing, protecting and disseminating information, etc.	GES	RC	5	LO 1 LO 4 LO 9
6	<b>Philosophy</b>	Formation of the assessment results based on worldview positions formed by the foundations of knowledge of philosophy, which require scientific understanding and the definition and application of methods of scientific and philosophical knowledge in the world; interpret the	GES	RC	5	LO1 LO4 LO10

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		content and specific features of the mythological, scientific and scientific worldview; characteristics of the quantity and quality of the analysis of social assets, processes and problems.				
7	<b>Psychology and cultural studies</b>	Formation of general competencies that ensure the socio-cultural development of the personality of a future specialist on the basis of the formation of his worldview, civic and moral positions; skills of self-development and education throughout life; personality capable of mobility in the modern world, critical thinking; skills of operating social, business, cultural and ethical norms of Kazakhstani society; skills of personal and professional competitiveness.	GES	RC	4	LO1 LO2 LO4
8	<b>Sociology and political science</b>	Formation of socio-political knowledge, skills of application and generalization of scientific research methods. Sociology and sociological perspective. Social structure and stratification. Education and social inequality. Health and medicine. Civilizational identification of Kazakhstan in the global world. Politics in the structure of public life. Power as a political institution. State and civil society. Political culture, ethics and behavior. Sovereign Kazakhstan in the system of interstate relations.	GES	RC	4	LO1 LO4 LO10
9	<b>Legal, economic, environmental and scientific</b>	Integrated discipline: on the basis of economic, legal, environmental and scientific knowledge, the formation	GES	OC	5	LO 1 LO 2

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	<b>knowledge *</b>	of one's own moral and civil position; general competencies of operating public, business, cultural, legal and ethical norms of Kazakhstani society for self-development and education throughout life, mobility in the modern world and critical thinking; skills in the application of scientific methods and techniques for the study of a particular science				LO 3 LO 4 LO 9 LO 12
10	<b>Fundamentals of Economics and Law*</b>	Market and competition. Money and inflation. Credit and monetary system. Financial system and fiscal policy. Features of the development of the national economy in the Republic of Kazakhstan. Choosing a business idea and a startup, business planning in the system of entrepreneurial activity, the content of a business plan, the skills to develop them. Basic ideas about law and state-legal phenomena. Basics of constitutional, administrative, civil and family, financial and labor, environmental and land and criminal laws of the Republic of Kazakhstan.	GES	<b>OC</b>	5	LO LO 2 LO 3 LO 4
11	<b>Fundamentals* of Anti-Corruption Culture and Entrepreneurial Skills</b>	Formation of an anti-corruption culture. Theoretical and methodological foundations of the concept of "corruption". Political power and corruption. Nepotism. Transformation of corruption in modern states. Anti-corruption policy in the Republic of Kazakhstan and the role of the social sphere in it. Legal liability for acts of corruption. Moral and ethical responsibility for acts of	GES	<b>OC</b>	5	LO 1 LO 2 LO 3 LO 4

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		corruption in various fields.				
12	<b>Ecology and life safety. Research Methods*</b>	Ecological problems of the present and public health. Causal relationship of general morbidity of the population with environmental factors and ways to reduce the burden on human health. Emergencies and the basics of life support. Methodological foundations of scientific knowledge. Science and other forms of development of reality. Methods of scientific knowledge. Principles of organization of scientific research. The role of medical research in modern science. Application of scientific research methods in theory and practice.	GES	<b>OC</b>	5	LO 1 LO 3 LO 12
<b>The cycle of basic disciplines</b>					<b>95</b>	
13	<b>Introduction in profession</b> (Fundamentals of medicine and safe care; medical ethics and communication skills; medical law)	<i>Integrated discipline:</i> regularities of development and history of medical knowledge. Moral and ethical aspects of the doctor's professional activity. Health organizations. Therapeutic and protective regime. Safe Care. Communicative culture, ability, competence. Basic principles of effective communication with a patient, his family members, and colleagues. Tasks, principles of medical law. The right to health care and medical care. Legislation in healthcare, systematization of knowledge about the rights and obligations of medical and pharmaceutical workers, patients, and the grounds and conditions for the emergence of legal	BD	UC	3	LO2 LO3 LO4

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		liability in health protection.				
14	<b>Educational practice "Safe care"</b>	Formation of skills for effective communication with a patient, high-quality performance of professional duties, and organization of self-control in order to continuously improve their activities. Implementation of an individual approach to patient and patient-centered care. Reception and sanitation of patients. Transportation of patients. Nutrition of the patient. Maintenance of the seriously ill. Prevention of bedsores. Change of linen. A sanitary and epidemiological regime of the hospital.	BD	UC	1	LO2 LO4 LO5 LO7
15	<b>Structural organization of human physiological processes</b> (Molecular Biology, histology, microbiology and chemistry)	<i>Integrated disciplines:</i> the formation of fundamental knowledge aimed at understanding the processes of metabolism, cell structure, their polymorphism, the relationship of their structure and functions. Biological membranes. Principles of the tissue level of organization of living matter. Molecular, chemical and biochemical mechanisms of the occurrence of biopotentials, regulation of acid-base states, their role in the formation of pathological changes in tissues, organs and microorganisms. Qualitative, quantitative and microbiological indicators of biochemical substances.	BD	UC	6	LO1 LO2 LO13
16	<b>Genes and heredity</b> (Molecular Biology, Human embryology, bioorganic chemistry,	<i>Integrated discipline:</i> fundamentals of the chemical structure of biologically active substances and the genetic apparatus. Molecular and cellular bases of mechanisms of heredity, patterns of human embryonic	BD	UC	4	LO1 LO2 LO11




	medical genetics)	development, its critical periods, new molecular genetic and preventive methods for detecting developmental anomalies. The importance of hereditary factors in the etiology of diseases, in the body's response to pharmacological and other types of treatment.				
17	<b>Musculoskeletal system and skin in norm</b> (anatomy, physiology, histology, basics of radiology, Latin)	<i>Integrated discipline:</i> study of morphofunctional features of the musculoskeletal system and skin, its topical basis for physical diagnostics. Biomechanisms of excitability-contractility occurring in muscles in connection with the skeleton, the phenomenon of movement. Knowledge of the macroscopic and microscopic structure of bones, joints, muscles. Visual methods of research of the musculoskeletal system.	BD	UC	7	LO1 LO2 LO4
18	<b>The normal nervous system and sense organs and vision</b> (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction in clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about the morphofunctional and biochemical features of the nervous system and sensory and visual organs, and their topical basis for physical diagnostics. The structure and membranes of the spinal cord. Formation of plexuses of spinal nerves. Topography of the cranial nerves. Ventricles of the brain, CSF circulation. Pathways of the brain and spinal cord. autonomic nervous system. The structure of the sense organs and vision. Visual methods for studying the nervous system, sense organs and vision, and safe care skills.	BD	UC	6	LO1 LO2 LO11
19	<b>Normal cardiorespiratory system</b> (anatomy, physiology,	<i>Integrated discipline:</i> study of morphofunctional, biochemical features of the cardiorespiratory system,	BD	UC	7	LO1 LO2

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	histology, biochemistry, basics of radiation diagnostics, introduction in clinic)	and their topical basis for physical diagnostics. The structure of the heart and blood vessels. Circles of blood circulation. Arteries of the systemic and pulmonary circulation. System of superior and inferior vena cava. Formation of the portal vein. Topography of the chest and mediastinum. The structure of the nasal cavity, larynx, and trachea. Broncho-alveolar tree. The structure of the lungs. Pleura, pleural cavity. Visual methods for studying the cardiorespiratory system of the system, first aid skills				LO11
20	<b>Normal digestive and endocrine systems</b> (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction to the clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about the morphofunctional and biochemical characteristics of the digestive and endocrine systems. Anatomy of the gastrointestinal tract and endocrine system. Visual research methods skills first aid and patient-centered care.	BD	UC	6	LO1 LO2 LO11
21	<b>Normal genitourinary system</b> (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction to the clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about the morphofunctional and biochemical features of the genitourinary system. The structure of the kidneys. Nephron. The structure of the ureter and bladder. The structure of the male and female reproductive organs. Muscles and fasciae of the perineum. Syntopy, holotopy, skeletopy of the genitourinary organs. Clinical and visual research	BD	UC	5	LO1 LO2 LO11

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		methods. First aid and patient-centered care skills.				
22	<b>Normal blood and lymph</b> (anatomy, physiology, histology, biochemistry, introduction in clinic)	<i>Integrated discipline:</i> morphofunctional and biochemical characteristics of blood and lymph. Organs of hematopoiesis and immune system. Morphology of blood cells. Types of immunity. Clinical, laboratory, and visual research methods.	BD	UC	3	LO1 LO2 LO11
23	<b>Training practice "As an assistant to the ward and procedural nurse"</b>	First aid to patients. Organization of work in medical organizations. Formation of skills for effective communication with a patient, high-quality performance of professional duties, and organization of self-control in order to continuously improve their activities. Ways of using medicines. Organization of work of a treatment room. Injection technique. Technique for taking blood, and urine for laboratory research. Preparation of patients for X-ray, instrumental, ultrasound, and other research methods.	BD	UC	2	LO2 LO4 LO5 LO14
24	<b>Introduction to Scientific Research</b> (Public health and Biostatistics)	<i>Integrated discipline:</i> study of the policy in the field of public health protection of the Republic of Kazakhstan. International and national healthcare structures, the role and responsibility of the healthcare system in addressing issues of providing medical care to the population. Application in practice of regulatory legal acts of the health care system. The formation of practical skills for using descriptive statistics and the theory of testing statistical hypotheses	SD	UC	6	LO 1 LO 3 LO 7 LO 9


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		in medical and biological studies, and processing statistical data using special software.				
25	<b>Fundamentals of project activities and evidence-based medicine</b>	<i>Integrated discipline:</i> Project method. Research planning. Preparatory stage of research work. The main sources of scientific information, their analysis and processing. The use of preventive, diagnostic and therapeutic interventions based on available evidence of their effectiveness and safety. The use of reliable scientific evidence of the effectiveness of drugs and medical manipulations. Rules for the preparation and implementation of clinical protocols for treatment and diagnosis based on evidence-based medicine.	BD	UC	3	LO1 LO11 LO12
26	<b>Microbiology and Immunology</b>	Morphophysiology and genetics of microorganisms, etiopathogenesis, immunity, laboratory diagnostics, prevention and etiotropic therapy of major bacterial, viral and fungal infections. General mechanisms of functioning of the immune system and modern immunological methods for diagnosing infectious and non-infectious diseases.	BD	UC	5	LO1 LO2 LO7 LO14
27	<b>General pathology</b> (pathological anatomy and pathological physiology)	<i>Integrated discipline:</i> the formation of fundamental knowledge about the patterns of development of typical general pathological processes for the diagnosis of the most common diseases; skills of pathophysiological analysis of clinical and laboratory data, description of macro- and micropreparations, understanding of	BD	UC	6	LO1 LO2 LO11


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		pathophysiological foundations for the prevention and treatment of various diseases. Etiopathogenesis, morphogenesis, morphology, outcome.				
28	<b>Genitourinary system in pathology</b> (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology, microbiology)	<i>Integrated discipline:</i> formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, biological features of microorganisms of frequently occurring pathological processes of the nervous system, sensory organs and vision, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children	BD	UC	5	LO1 LO2 LO6
29	<b>Cardiorespiratory system in pathology</b> (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology, microbiology)	<i>Integrated discipline:</i> formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, biological features of microorganisms of frequently occurring pathological processes of the cardiovascular and respiratory systems in their interrelation, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children	BD	UC	9	LO1 LO2 LO6
30	<b>Digestive and endocrine systems in pathology</b>	<i>Integrated discipline:</i> formation of fundamental knowledge on the basics of semiotics, syndromology,	BD	UC	6	LO1 LO2

	(biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology, microbiology)	physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, biological features of microorganisms of frequently occurring pathological processes of the digestive and endocrine systems, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children				LO6
31	<b>Genitourinary system in pathology</b> (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology, microbiology)	<i>Integrated discipline:</i> formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, biological features of microorganisms of frequently occurring pathological processes of the genitourinary system, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children	BD	UC	5	PO1 PO2 PO6
32	<b>Blood and lymph in pathology</b> (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood	<i>Integrated discipline:</i> formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, biological features of microorganisms of frequently occurring pathological processes of the hematopoietic and lymphoid systems, acquisition of	BD	UC	5	PO1 PO2 PO11

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	diseases, pharmacology, microbiology)	skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children				
33	<b>Musculoskeletal system and skin in pathology</b> (biochemistry, pathological anatomy, pathological physiology, radiation diagnostics, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology, microbiology)	<i>Integrated discipline:</i> formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, biological features of microorganisms, radiation diagnostics of frequently occurring pathological processes of the musculoskeletal system and skin, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children	BD	UC	5	LO1 LO2 LO6
34	<b>Industrial practice "Assistant of a resident doctor-1"</b> (propaedeutics of internal diseases and propaedeutics of pediatric diseases)	Acquisition of practical skills in medical, diagnostic manipulations, patient care for adults and children. Filling out medical histories: collecting information about the anamnesis of the disease and life; examination and assessment of the general condition; objective examination of the patient; diagnosis of symptoms, formulation of the preliminary syndrome of diseases of internal organs in adults and children. Formation of skills of effective communication with the patient, high-quality performance of professional duties, organization of self-control in order to continuously improve own	BD	UC	4	LO2 LO4 LO5 LO6 LO14

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		activities.				
35	<b>Hygiene and epidemiology</b> (general hygiene, epidemiology and infection control in medical organizations)	<i>Integrated discipline:</i> Environment and human health. Principles and features of hygienic rationing of various environmental factors. The main directions of the organization of measures to prevent the adverse effects of factors on human health. Tasks of epidemiology, structure and factors of the epidemic process. Fundamentals of the organization of anti-epidemic work. Infectious control of nosocomial infections in medical organizations.	BD	UC	6	LO1 LO2 LO7 LO14
36	<b>General surgery</b>	Formation of skills in the organization of primary surgical care. Aseptics and antiseptics. Injuries, burns and assistance with them. Wounds and wound process. Types of surgical sutures. Bleeding and blood loss. Local and regional anesthesia in surgery. General anesthesia. Questions of ethics and deontology in surgery.	BD	UC	3	LO2 LO4 LO6 LO8
37	<b>Topographic anatomy and operative surgery</b>	Formation of anatomical foundations of clinical thinking and basic skills of basic surgical techniques. The general principle of the layered structure of the human body. Topographic anatomy of specific areas. Clinical anatomy of internal organs, cellular spaces, neurovascular formations, bones and large joints. Age-	BD	UC	5	LO1 LO2 LO4 LO6



		related features of the structure, shape and position of organs. Technique of performing basic surgical techniques using general surgical and specialized instruments. Questions of ethics and deontology.				
38	<b>Diseases of the nervous system, sensory organs and vision</b> (neurology, pediatric diseases, clinical pharmacology, imaging diagnostics, oncology, otolaryngology, ophthalmology)	Integrated medicine: the study of diseases of the various parts of the nervous system, sensory organs, and vision in adults and children and their methods of diagnosis, the basics of pharmacotherapy, and prevention. Tactics of patient management. Issues of Ethics and Deontology. Quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan, organization of self-monitoring, and continuous improvement of own activity.	SD	UC	9	LO4 LO5 LO6 LO10 LO14
39	<b>Diseases of the digestive and endocrine system</b> (internal diseases, childhood diseases, visual diagnostics, clinical pharmacology, oncology)	Integrated discipline: the study of diseases of the digestive and endocrine systems in adults and children and their diagnostic methods, the basics of pharmacotherapy and prevention. Tactics of patient management. Questions of ethics and deontology. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan, organization of self-control and continuous improvement of its activities	SD	UC	6	LO4 LO5 LO6 LO10 LO14
40	<b>Diseases of the musculoskeletal system and skin</b>	Integrated discipline: the study of diseases of the musculoskeletal system and skin in adults and children and their diagnostic methods, the basics of	SD	UC	8	LO4 LO5 LO6


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	(internal diseases, childhood diseases, clinical pharmacology, traumatology, visual diagnostics, oncology, dermatovenerology)	pharmacotherapy and prevention. Tactics of patient management. Questions of ethics and deontology. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan, organization of self-control and continuous improvement of its activities				LO10 LO14
41	<b>Infectious diseases with clinical immunology and microbiology</b>	<i>Integrated discipline:</i> formation of the basic foundations of modern infectology of adults and children, its relationship with clinical microbiology, immunology. Diagnostic methods, fundamentals of pharmacotherapy and prevention of infectious pathology based on the application of scientific principles. Skills of compliance with the norms of public health protection, sanitary and hygienic regime, occupational safety in healthcare organizations, epidemiological safety of the environment. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan	SD	UC	10	LO3 LO4 LO5 LO7 LO14
42	<b>Phthisiology</b>	Organization of the phthisiological service. Fundamentals of phthisiology. Diagnostic methods, fundamentals of pharmacotherapy and prevention of tuberculosis, based on the application of scientific principles. Skills of compliance with the norms of public health protection, sanitary and hygienic regime, occupational safety in healthcare organizations,	SD	UC	3	LO3 LO7 LO11 LO12 LO14

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		epidemiological safety of the environment. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan, organization of self-control and continuous improvement of its activities				
43	<b>Obstetrics</b>	Fundamentals of organization of obstetric care to the population; physiology of pregnancy and childbirth, general principles of examination and features of pregnancy management; Conducting, receiving physiological childbirth. Principles and methods of first aid for emergency obstetric pathology; dispensary principles. Methods for diagnosing physiological and pathological processes associated with reproductive function. Correct medical behavior with colleagues, patients and their relatives from the modern positions of medical ethics and deontology.	SD	UC	4	LO2 LO4 LO5 LO6 LO8
44	<b>Gynecology</b> (gynecology, pediatric gynecology, oncogynecology)	<i>Integrated discipline:</i> formation of skills in organizing the health care of children, adolescents and women of childbearing age, family planning, the use of contraceptive methods based on scientific principles, continuous self-education and development. Diagnosis and principles of treatment of gynecological diseases. Functional diagnostic tests. Screening methods. Oncopathology of the female genital organs. High-quality performance of professional duties, medical care	SD	UC	5	LO2 LO3 LO5 LO6 LO8

		within the framework of the legislation of the Republic of Kazakhstan, organization of self-control and continuous improvement of their activities.				
45	<b>Mental disorders</b> (psychiatry, narcology)	<p><i>Integrated medicine:</i> The organization of psychiatric and drug treatment. Methods of examination of patients in Psychiatry. Legal issues in Psychiatry and Narcology. Forensic psychiatric and drug treatment.</p> <p>General Psychopathology: disorders of sensation and perception, thinking, memory and intellect, emotional disorders, disorders of will and drive, pathology of attention and consciousness. Issues of Ethics and Deontology.</p> <p>Quality performance of professional duties, and medical care within the framework of the legislation of the Republic of Kazakhstan.</p>	SD	UC	3	LO2 LO3 LO4 LO6
46	<b>Surgery</b> (surgical diseases, pediatric surgery)	<p><i>Integrated discipline:</i> diagnosis of surgical pathology in adults and children, emergency care, tactics of management of patients with surgical pathology, indications for hospitalization. Priority research, new technologies of diagnostic methods, surgical interventions, treatment and rehabilitation based on scientific principles. Questions of ethics and deontology. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan, organization of self-control</p>	SD	UC	5	LO2 LO4 LO6 LO8 LO10


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		and continuous improvement of its activities				
47	<b>Bioethics and conducting scientific research in medicine</b>	Formation of fundamental knowledge on ethical issues of biomedical research, ethical standards for the use of scientific developments, legal regulation, skills of competent assessment of responsible decisions in the field of biomedical research and diagnostics. Methodology of planning and features of scientific research in medicine. Stages of scientific research. Design selection, obtaining and analyzing information, drawing conclusions, transferring and using research knowledge.	SD	UC	3	LO 4 LO10 LO11 LO12 LO13
48	<b>Industrial practice "As an assistant to a resident doctor-2"</b> (internal and children's diseases)	Improvement of professional competencies, acquisition of practical skills necessary for the organization of the medical process, interpretation of the results of laboratory and instrumental studies and clinical diagnosis. Mastering the techniques and techniques of the most important manipulations, the skills of providing medical care in emergency conditions. Effective communication with patients, their families and medical professionals. Providing documentation of the processes of providing medical services.	SD	UC	4	LO4 LO5 LO6 LO8 LO9
49	<b>Diseases of the cardiorespiratory system</b> (internal diseases, children's diseases, clinical	<i>Integrated discipline:</i> formation of skills for diagnosing common diseases of the cardiorespiratory system in adults and children, identification of early forms, indications for hospitalization. Diagnostic methods,	SD	UC	9	LO3 LO4 LO6 LO8

	pharmacology, visual diagnostics, oncology, emergency medical care)	fundamentals of pharmacotherapy and prevention, medical care in emergency conditions, basic and advanced cardiopulmonary resuscitation. Diagnosis of tumor diseases. Tactics of patient management. Questions of ethics and deontology. High-quality performance of professional duties within the framework of the legislation of the Republic of Kazakhstan. Providing documentation of the processes of providing medical services.				LO9
50	<b>Diseases of the urinary system</b> (internal diseases, childhood diseases, clinical pharmacology, visual diagnostics, oncology)	<i>Integrated discipline:</i> formation of skills for diagnosing common diseases of the urinary system in adults and children, identifying early forms, indications for hospitalization. Diagnostic methods, fundamentals of pharmacotherapy and prevention, medical care in emergency conditions. Diagnosis of tumor diseases at the prehospital stage. Tactics of patient management. Questions of ethics and deontology. High-quality performance of professional duties within the framework of the legislation of the Republic of Kazakhstan. Providing documentation of the processes of providing medical services.	SD	UC	5	LO3 LO4 LO6 LO8 LO9
51	<b>Blood and lymph diseases</b> (internal diseases, childhood diseases, clinical pharmacology, oncology)	<i>Integrated discipline:</i> formation of skills for the diagnosis of common blood and lymph diseases in adults and children, identification of early forms, indications for hospitalization. Diagnostic methods, fundamentals of	SD	UC	4	LO3 LO4 LO6 LO8


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		pharmacotherapy and prevention, medical care in emergency conditions. Diagnosis of tumor diseases at the prehospital stage. Tactics of patient management. Questions of deontology in oncology. High-quality performance of professional duties within the framework of the legislation of the Republic of Kazakhstan. Providing documentation of the processes of providing medical services.				LO9
52	<b>Clinical pathomorphology and forensic medicine</b>	<i>Integrated discipline:</i> lifetime and postmortem pathomorphological diagnostics of common diseases and urgent conditions. Pathoanatomic autopsy, autopsy report, epicrisis. Formulation of the diagnosis, comparison of diagnoses. Rules for taking material for biopsy examination, pathohistological conclusion. Procedural, organizational bases of forensic medical examination within the framework of legislation. Examination of corpses with various signs of violent and nonviolent death. Filling out a medical death certificate, coding the causes of death.	SD	UC	3	LO3 LO6 LO8 LO13
53	<b>Fundamentals of General Medical Practice</b>	Organization of the work of GPs, the basics of management of a medical outpatient clinic. Maintenance of accounting and reporting documentation, medical audit in PHC. Effective interaction with specialists and patients in solving health problems. Algorithms for rational differential diagnosis, management tactics and	SD	UC	8	LO4 LO5 LO6 LO8 LO9


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		dynamic monitoring of patients. Diagnosis and provision of emergency and emergency medical care to patients with acute diseases of internal organs at the prehospital stage. Communicative competence in extreme situations.				
54	<b>Clinical Practice "As a General Practitioner's Assistant"</b>	Organization of the work of GPs, the basics of management of a medical outpatient clinic. Maintaining accounting records. Effective interaction with specialists and patients in solving health problems. Algorithms for rational differential diagnosis, management tactics and dynamic monitoring of patients. Diagnosis and provision of emergency and emergency medical care to patients with acute diseases of internal organs at the prehospital stage. Communicative competence in extreme situations.	SD	UC	4	LO4 LO5 LO6 LO7 LO8 LO9
55	<b>Management</b>	Management as an informational and functional process. Principles and methods of management. Modern management approaches. Integration processes in management. Control in the management system. Activities within the framework of the legislation of the Republic of Kazakhstan. Organization as a system. Basic management functions. Connecting processes in management. The manager in the management system. Leadership, power and leadership. Continuous improvement of activities.	BD	UC	2	LO3 LO5 LO7 LO10
56	<b>Management Psychology</b>	Formation of the psychological management culture of the head, which allows to effectively carry out	BD	UC	2	LO3 LO4




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		organizational and managerial activities in the professional sphere. Psychology of managerial functions, planning, forecasting, organization, coordination, stimulation, motivation, managerial communications and decisions. Personality as an object of management, socialization and personal development. Psychological portrait of the manager. Psychology of leadership and leadership, ethics and social responsibility of the head. Self-development of the manager. The internal and external environment of the organization, the corporate culture of the organization, the psychological climate in the team and the psychology of teamwork.				LO5 LO10
57	<b>Foreign language (professional)</b>	Formation and development of communicative competences (linguistic, sociolinguistic, sociocultural, strategic, discursive and pragmatic) necessary for the implementation of professional activities. Formation of a sufficient level of proficiency in a professional foreign language for the implementation of written and oral information exchange necessary in scientific activity.	BD	UC	2,0	LO4 LO10 LO12
58	<b>Clinical epidemiology*</b>	Formation of competencies for conducting clinical epidemiological studies using the principles of evidence-based medicine aimed at creating conditions for the protection of citizens' health; for the implementation of a set of measures for early diagnosis, identification of the	BD	OC	4	LO7 LO12 LO13 LO14

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		causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health; on the organization and conduct of scientific research, including the choice of goals and formulation of tasks, planning, selection of adequate methods, collection, processing, analysis of data and their public presentation.				
59	<b>Healthcare management</b>	Strategic management of the healthcare system. Separation of functions in the field of healthcare at different levels of government. State regulation in the field of healthcare. Models of healthcare financing. Organizational and economic models of functioning of a healthcare organization. Strategic planning at different levels of the healthcare system. Activities within the framework of the legislation of the Republic of Kazakhstan. Assessment of the health status of the population and prevention of diseases.	BD	OC	4,0	LO3 LO7 LO13 LO14
60	<b>Digital Medicine*</b>	Digitalization in the healthcare sector. Innovative technologies, telemedicine and electronic documentation. Implementation of digital tools: planning of preventive and planned medical services; diagnosis based on digital medical images using artificial intelligence; verification of the correctness of the prescribed drug and its dosage; access to a complete	BD	OC	4,0	LO9 LO12 LO13

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		history of diseases and medical treatment, notifications and reminders of cases or patients who need to provide planned or unscheduled medical services; access to information about the availability of available resources (drugs, medical devices, equipment, services, beds) for redirecting the patient; access to reliable depersonalized information for medical research, development of standards and treatment protocols, etc.				
	<b>Internship</b>				<b>30</b>	
61	<b>Internal diseases</b>	Diagnostics, treatment, prevention, dispensary supervision, rehabilitation, medical, social and emergency care for adult patients based on modern methods and scientific data. Working with documentation in an electronic system. Communication skills, self-control, patient support. Research skills in the field of therapy.	SD	UC	7	LO4 LO6 LO8 LO9 LO11 LO12 LO14
62	<b>Children diseases</b>	Diagnostics, treatment, prevention, dispensary supervision, rehabilitation, medical, social and emergency assistance to the children's population based on modern methods and scientific data. Patronage of pregnant women and young children. Preventive examinations. Working with documentation in an electronic system. Communication skills, self-control, patient support. Research skills in pediatrics.	BD	UC	5	LO4 LO6 LO8 LO9 LO11 LO12 LO14

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63	<b>Obstetrics and gynecology</b>	<p>Diagnostics, treatment, prevention, dispensary supervision, rehabilitation, medical, social and emergency care for gynecological patients and management of pregnant women based on modern methods and scientific data. Patronage of pregnant women. Working with documentation in an electronic system. Communication skills, self-control, patient support. Research skills in obstetrics and gynecology.</p>	SD	UC	5	LO4 LO6 LO8 LO9 LO11 LO12 LO14
64	<b>Surgical diseases and oncology</b>	<p>Algorithms of early and differential diagnosis, tactics of management of patients with surgical and oncological diseases based on modern methods and scientific data. Information technologies in surgery. Effective communication in teamwork when solving patient problems. Working with documentation in an electronic system. Communication skills, self-control, patient support. Research skills in the field of surgery.</p>	SD	UC	5	LO4 LO6 LO8 LO9 LO11 LO12 LO14
65	<b>Infectious diseases</b>	<p>Preventive examinations. Algorithms of early and differential diagnosis, tactics of management of patients with infectious diseases based on modern methods and scientific data. Information technologies of Primary health care. Effective communication in teamwork when solving patient problems. Working with documentation in an electronic system. Communication skills, self-control, patient support. Infectious disease research</p>	SD	UC	5	LO4 LO6 LO7 LO8 LO9 LO11 LO12 LO14


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		skills.				
<b>Cycle of specialized disciplines</b>						<b>SD</b>
66	<b>Outpatient polyclinic therapy</b>	The principles of the organization of the work of the GP: diagnosis, differential diagnosis, treatment of the most common diseases among the adult population according to clinical protocols. Screening studies of target population groups. Stationary replacement technology. Examination of working capacity. Emergency and emergency medical care at the pre-hospital stage. Effective interaction of GPs with patients and other specialists. Medical examination. Work in an automated information system. Application of scientific principles in the work. Conducting research. Health indicators assessment, health education, health protection and prevention.	SD	UC	7	LO4 LO6 LO8 LO9 LO11 LO12 LO13 LO14
67	<b>Ambulatory polyclinic pediatrics</b>	Organization of outpatient pediatric care. Information technologies in primary school. Medical and Social Expert Commission in Pediatrics. IMCI program. The algorithm of rational differential diagnosis, management tactics and dynamic observation of children in outpatient settings. Prenatal patronage. Prenatal diagnosis. Neonatal and audiological screening. Preventive and curative care for newborns and premature babies in	SD	UC	5	LO4 LO6 LO8 LO9 LO11 LO12 LO13 LO14

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		primary health care. Medical examination. Work in an automated information system. Effective interaction of GPS PHC with patients and other specialists. Application of scientific principles in the work. Conducting research. Assessment of health indicators, health education, health protection and prevention.				
68	<b>Emergency medical care</b>	Activities within the framework of the legislation of the Republic of Kazakhstan in the field of healthcare, providing quality medical care. Principles of emergency medical care. Regulatory legal acts for the provision of emergency and emergency medical care. Urgent conditions in the practice of infectious, psychiatric, surgical, urological, pediatric, endocrinological pathologies. Methods of clinical examination of the patient and diagnosis of emergency conditions. Continuous improvement of activities.	SD	UC	5	LO4 LO5 LO6 LO8
69	<b>Neurology</b>	Formation of skills for the diagnosis of neurovascular, neuromuscular, demyelinating, degenerative diseases of the brain. Neurological examination, identification of lesion symptoms and substantiation of topical diagnosis, fundamentals of pharmacotherapy, prevention and rehabilitation. Effective interaction with patients and other specialists. Documenting the processes of providing medical services. Continuous improvement of activities. Research skills in the field of neurology.	SD	UC	5	LO4 LO5 LO6 LO9 LO10 LO11

70	<b>General hematology*</b>	Anatomical and physiological foundations of the hematopoiesis system and hemostasis system. The modern concept of blood clotting. Modern methods of research of blood cells, hematopoiesis organs and hemostasis system. A syndromic approach to the diagnosis of blood diseases based on scientific principles. Research skills in the field of hematology. Documenting the processes of providing medical services. Communication skills, self-control, patient support. Continuous improvement of activities.	SD	OC	3	LO4 LO5 LO6 LO9 LO10 LO11 LO12
71	<b>Basic endocrinology*</b>	Anatomical and physiological foundations of the endocrine system. Practical aspects of diagnosis and treatment of the most common endocrine diseases using modern methods on a scientific basis. Tactics of management of patients. Prevention, rehabilitation and dynamic monitoring of patients. Medical examination. Health education Documenting the processes of providing medical services. Research skills in the field of endocrinology. Communication skills, self-control, patient support.	SD	OC	3	LO4 LO6 LO9 LO10 LO11 LO14
72	<b>Medical radiology*</b>	Physical and radiobiological foundations of radiation diagnostics and radiation therapy methods of obtaining medical images organization of the department of radiation diagnostics and radiation therapy. Modern methods of radiation diagnostics. The possibilities of	SD	OC	3	LO4 LO5 LO6 LO7 LO10

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		radiation therapy in the complex treatment of major tumor and non-tumor diseases, indications, planning, features of the course of radiation therapy. Ethics and deontology in radiology, sanitary and hygienic regime, occupational safety. High-quality performance of professional duties, self-control and continuous improvement in work				
73	<b>Interpretation of electrocardiogram and echocardiogram*</b>	Principles of examination of patients with diseases of the cardiovascular system. Physical methods of examination of the cardiovascular system and their interpretation. Methods of recording and interpretation of ECG, EchoCG, bicycle ergometry, load tests for the determination of myocardial ischemia. Ethics and deontology in interaction with patients and medical professionals. High-quality performance of professional duties, self-control and continuous improvement in work.	SD	OC	3	LO4 LO5 LO6 LO12
74	<b>Organization of anesthesiological and resuscitation work*</b>	Organization of anesthesiological and resuscitation work in medical organizations. Legal and ethical aspects. Initial examination by an anesthesiologist. Anesthesia card. Anesthesia protocol. Diaries of the resuscitator. Transferable epicrisis. Stage epicrisis. Anesthetic equipment and monitors. Preoperative examination, premedication, general anesthesiology. Different levels of patient monitoring. Risk classes in anesthesiology. A	SD	OC	3	LO3 LO4 LO8 LO11



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		modern view of premedication. Basic manipulations in anesthesiology. Types of anesthesia. Pharmacology in anesthesiology. The concept of a critical condition. Cardiopulmonary resuscitation. The concept of thanatogenesis. Extended cardiopulmonary resuscitation.				
75	<b>Experimental research work</b>				<b>13</b>	
76	<b>Writing and defending a master's project and preparing and passing a comprehensive exam</b>				<b>12</b>	
	<i>Preparation and passing of a comprehensive exam</i>				<i>4</i>	
	<i>Writing and defending a Master's project</i>				<i>8</i>	
	<b>TOTAL</b>				<b>360</b>	

Note: \*- disciplines of the elective component