

ONTÜSTIK QAZAQSTAN
MEDISINA
AKADEMIASY

«Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

АО «Южно-Казахстанская медицинская академия»



"I APPROVE"
Rector of SKMA
M. Rysbekov

2023

EDUCATIONAL PROGRAM

Group of the educational program: VM 088 Pediatrics

EP code: 6B10116

Name of the educational program: Pediatrics

Educational program level: Bachelor and profile magistracy

Shymkent, 2023

The educational program was developed by the members of the CPC "Pediatrics"

Agreed with employers:

Chief Physician of the Regional Clinical Children's Hospital AA Dossanova A.M.

Chief Physician of Shymkent City Children's Hospital [Signature] Zhumadillova D.A.

Chairman of the CPC "Pediatrics" [Signature] **Kemelbekov K.S.**

Protocol No. 10 of 25/05.2023

Approved by the Methodological Council

Vice-rector for Educational-Methodical and Educational work Anartayeva M.U

U. Protocol no. 12 from 26 06 2023.

Approved by the Academic Council

Protocol no. 12 from 24 06 2023.

Passport of the educational program

1. The mission of the educational program: Training of highly qualified, competitive and competent personnel in accordance with modern requirements of education, science and healthcare systems.

2. The purpose of the educational program: Training of a pediatrician-a master of medicine with a system of universal, professional competencies, ready for full-fledged professional activity

3. Justification of the educational program:

-for students: obtaining continuous integrated medical education, including basic training - bachelor's degree, internship and master's degree. At the end of 6 years of study, a graduate will be awarded an academic master's degree and a diploma with a doctor's qualification will be issued.

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

4. The professional standard on the basis of which the educational program was developed:

Regulatory documents for the development of an educational educational program

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

- Order of the Minister of Health of the Republic of Kazakhstan "On approval of the state mandatory standards for levels of education in the field of health care" dated 04.07.2022 No. KDSM-63;

- Order of the Minister of Health of the Republic of Kazakhstan "On approval of standard training programs in medical and pharmaceutical specialties" dated 09.01.2023 No. 4;

- Order of the Vice-Minister of Health of the Republic of Kazakhstan "On approval of the phased implementation of continuous integrated medical education" dated 08.08.2022 No. 661;

- Code of the Republic of Kazakhstan dated 07.07.2020 No. 360- VI "On the health of the people and the healthcare system" (with amendments and additions as of 04.07.2022);

- The Law of the Republic of Kazakhstan "On Education" dated 27.07.2007 No. 319- III, with amendments and additions dated 04.07.2022.

- Order of the Minister of Education and Science of the Republic of Kazakhstan dated 16.10.2013 No. 420 "On approval of Standard rules for the activities of organizations of higher and (or) postgraduate education" with amendments and additions dated 29.12.2021;

- Order of the Minister of Education and Science of the Republic of Kazakhstan dated 20.04. 2011 No. 152 "On approval of the Rules for the organization of the educational process on credit learning technologies" (with amendments and additions as of 06.05.2021)

- Order of the Minister of Health of the Republic of Kazakhstan dated 30.01.2008 No. 27 "On approval of the list of programs of continuous integrated education in clinical specialties" (with amendments and additions as of 05/14/2021)

- "On approval of Standard rules for the activities of educational organizations of appropriate types and types", Order of the Minister of Education and Science of the Republic of Kazakhstan dated 10/30/2018 No. 595 with amendments and additions dated 12/29/2021
- "Guidelines for the development of educational programs of higher and postgraduate education" Order of the Director of CBP AM No. 45 o/d of the Ministry of Education and Science of the Republic of Kazakhstan dated June 30, 2021.
- "Regulations on the procedure and procedures for the development of educational programs" of JSC "SKMA" dated 29.05.2019
- Internal regulatory documents of JSC "SKMA".

5. Field of professional activity: the field of professional activity of graduates who have mastered the educational program 6B10116 "Pediatrics" includes public health protection by providing medical care to children.

6. Objects of professional activity:

- healthcare management organizations;
- healthcare organizations;
- educational organizations;
- organization of science;
- organization of social protection;
- child population;
- a set of tools and technologies aimed at creating conditions for the protection of the health of the child population.

Types of professional activity:

- therapeutic, preventive and diagnostic;
- organizational and managerial;
- scientific research;
- pedagogical.

General information

№	Field name	Note
1	Registration number	6B10100130
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	BM088 "Pediatrics"
5	Name of the Educational Program	6B10116 Pediatrics
6	Types of EP	New EP
7	A-level ISCED	
8	Level on the National framework of qualifications	6-7
9	The level of Sectoral qualification frameworks	6-7
10	Distinctive features of EP	Continuous integrated educational program
11	List of competencies	KC1 Medical knowledge: to demonstrate and put into practice knowledge in the field of biomedical, clinical, epidemiological and socio-behavioral sciences, including generally accepted, developing and constantly updated knowledge, the synthesis of professional and scientific medical knowledge for the provision of qualified medical care
		KC2 demonstrate interpersonal and communication skills that lead to effective information exchange and collaboration with patients, their families and medical professionals, including using information technology, effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient
		KC3 Clinical skills: to provide effective patient-centered care, including appropriate and effective measures aimed at the diagnosis, treatment and prevention of diseases, the implementation of qualified medical care of the basic category of complexity. Defining a strategy for providing qualified medical care to the population of the second category of complexity
		KC4 demonstrate commitment to professional duties and ethical principles. Coordination of activities in healthcare organizations. The ability to make decisions and be responsible for the result of providing qualified medical care
		KC5 Personal and professional development: 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
		KC6 Regulatory knowledge: 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
		KC7 Research: The ability to research and evaluate the results of their professional activities, the application of principles of diagnosis of diseases based on scientific data. The application of modern research methods in healthcare, taking into account bioethics and the introduction of clinical practice

12	Learning outcomes	<p>LO1 Applies in practice knowledge in the field of biomedical, clinical, epidemiological and socio-behavioral sciences, including generally accepted, developing and constantly updated knowledge for diagnosis, treatment, dynamic observation of the most common diseases in children</p> <p>LO2 Adheres to interpersonal and communication skills that lead to effective information exchange and cooperation with patients, their families and medical professionals</p> <p>LO3 Committed to fulfilling professional duties, adheres to ethical principles for the continuous improvement of the quality of medical care</p> <p>LO4 Carries out its activities within the framework of the legislation of the Republic of Kazakhstan in the field of healthcare to ensure quality medical care.</p> <p>LO5 Conducts reception based on evidence-based medicine, diagnostics, treatment, dynamic observation and wellness activities among the children's population</p> <p>LO6 Determines indications for hospitalization of sick children, in an emergency or planned manner, taking into account age characteristics to provide timely and high-quality medical care</p> <p>LO7 Carries out and controls vaccination, conducts preventive and health-improving measures to promote a healthy lifestyle, examination of children and adolescents, rehabilitation programs</p> <p>LO8 Provides effective patient-centered care, which includes appropriate and effective measures aimed at the diagnosis, treatment and prevention of diseases of the child population</p> <p>LO9 Supports continuous personal and professional growth, continuously improves on the basis of constant self-assessment and lifelong learning</p> <p>LO10 Adheres to the principles of organization and management in the field of child health protection in medical organizations and their structural divisions</p> <p>LO 11 Effectively uses information in the field of health care to introduce new approaches within the framework of its qualifications and documentation of the processes of services provided based on the possession of information and communication technologies.</p> <p>LO 12 Applies scientific knowledge based on the evaluation of treatment outcomes and in the conduct of research based on scientific evidence.</p> <p>LO 13 Complies with the norms of public health protection, sanitary and hygienic regime and labor safety standards in healthcare organizations, epidemiological safety of the environment.</p>
13	Availability of application to the license for the direction of training	A matrix is being formed for correlating the learning outcomes of the educational program with the competencies being formed (appendix)Full – time
14	The presence of accreditation EP	Kazakh, Russian and English
15	The term of study is	6 years
16	Name of accreditation organization	Total 360 credit

17	The term Accreditation Actions	Master of Medicine / Doctor
18	Information about the disciplines	KZ 36LAA00011387
19	Registration number	Yes
	Name of the accreditation body	“Independent Agency for Accreditation and Rating” IAAR, 09.06.2020
	Code and classification of training areas	Baccalaureate - № AB 4714, 26.05.2023г. - 25.05.2028г. Magistracy - № AB 4713, 26.05.2023г. - 25.05.2028г.
20	Group of educational programs	Application 1.2

Application 1.1

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

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

Application 1.2

Matrix of achievability of competencies/learning outcomes

№	Name of the discipline	Brief description of the discipline	Cycle (GES, BD, SD)	Component (RC, OC, UC)	Number of credits	Generated learning outcomes(codes)
Cycle of general education disciplines					56	
1	History of Kazakhstan	Formation of the ideological, civil and moral positions of the future specialist based on a deep understanding and scientific analysis of the main stages, patterns and peculiarities of the historical development of Kazakhstan, as well as the ability to use 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 12

2	Physical education	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 LO7 LO8 LO9
3	Foreign language	Formation of skills of using language 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 professional communication in a foreign language in a foreign language.	GES	RC	10	LO1 LO2 LO3
4	Kazakh (Russian) Language	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 LO2 LO3
5	Information and communication technology	Formation of information and communication technology skills that contribute to the development of information literacy through the acquisition and use of modern technologies in all spheres of their lives and activities; the use of various types of information and communication technologies in personal activities: Internet resources, cloud and mobile services for the search, storage, processing, protection and dissemination of information, etc.	GES	RC	5	LO2 LO3 LO11

6	Philosophy	Formation of skills for assessing the surrounding reality on the basis of worldview positions formed by knowledge of the fundamentals of philosophy, which provide scientific understanding and study of the natural and social world by methods of scientific and philosophical cognition; interpret the content and specific features of the mythological, religious and scientific worldview; skills of quantitative and qualitative analysis of social phenomena, processes and problems.	GES	RC	5	LO2 LO3 LO12
7	Psychology and Cultural Studies	Formation of general competencies that ensure the socio-cultural development of the personality of a future specialist based on the formation of his ideological, 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 with social, business, cultural and ethical norms of Kazakhstan society; skills of personal and professional competitiveness.	GES	RC	4	LO1 LO2 LO3
8	Sociology and political science	Formation of socio-political knowledge, skills of application, 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. The State and civil society. Political culture, ethics and behavior. Sovereign Kazakhstan in the system of interstate relations.	GES	RC	4	LO1 LO3
9	Legal, economic, environmental and scientific knowledge *	<i>Integrated discipline:</i> on the basis of economic, legal, environmental and scientific knowledge, the formation of one's own moral and civic position; general competencies of operating with social, business, cultural, legal and ethical norms of Kazakhstan society for self-development and education throughout life, mobility in the modern world and critical thinking; skills of applying scientific methods and techniques of research of a specific sciences	GES	OC	5	LO1 LO2 LO3 LO4 LO9 LO12

10	Fundamentals of Economics and Law *	Formation of knowledge on the basics of constitutional, administrative, civil and family, financial and labor, environmental and land and criminal rights of the Republic of Kazakhstan. Market and competition. Money and inflation. The monetary system. The financial system and fiscal policy. Features of the development of the national economy in the Republic of Kazakhstan. The choice of a business idea and a startup, business planning in the system of entrepreneurial activity, the content of the business plan, the skills of their development. Basic concepts of law and state-legal phenomena.	GES	SC		LO1 LO2 LO3 LO4
11	Fundamentals of anti-corruption culture and entrepreneurship skills*	Formation of knowledge on the basics of constitutional, administrative, civil and family, financial and labor, environmental and land and criminal rights of the Republic of Kazakhstan. Market and competition. Money and inflation. The monetary system. The financial system and fiscal policy. Features of the development of the national economy in the Republic of Kazakhstan. The choice of a business idea and a startup, business planning in the system of entrepreneurial activity, the content of the business plan, the skills of their development. Basic concepts of law and state-legal phenomena.	GES	SC		LO 1 LO 2 LO 3 LO 4
12	Ecology and life safety. Methods of scientific research *	Development of environmental literacy: based on environmental and scientific knowledge, the formation of skills: to analyze environmental problems, to develop skills of analysis and critical thinking when considering environmental problems, to identify and study environmental problems, to look for cause-effect relationships and propose appropriate solutions; to conduct and interpret environmental research: skills of data collection, information analysis and the application of ecological techniques for the study of natural systems; apply environmental knowledge to analyze and solve problems related to environmental pollution and their impact on the human body. Mastering the methodological foundations of scientific knowledge. Application of scientific research methods in theory and in practice.	GES	SC		LO1 LO3 LO12

13	Introduction to the Profession (Fundamentals of Medicine and Safe Care; Medical Ethics and Communication Skills; Medical law)	<i>Integrated Medical Discipline:</i> develops the skills and knowledge necessary for safe and ethical medical practice. Forms an understanding of the following principles: safety in medical practice, ethics and professional behavior in the medical field, medical law; the ability to apply professional skills and techniques to ensure safe care for patients, communicate effectively with patients, family members, colleagues, interpersonal and communicative skills leading to cooperation; apply medical law in practice, taking into account legal requirements and ethical standards. Develops skills of self-assessment and lifelong learning, forming continuous personal and professional growth of a pediatrician.	BD	UC	3	LO2 LO3 LO4 LO8
14	Educational practice "Safe care"	Formation of skills of effective communication with the patient, high-quality performance of professional duties, organization of self-control in order to continuously improve their activities. Implementation of an individual approach to the patient and implementation of patient-centered care. Reception and sanitary treatment of patients. Transportation of patients. Nutrition of the patient. Care for the seriously ill. Prevention of bedsores. linen change. Sanitary and epidemiological regime of the hospital.	BD	UC	1	LO1 LO3 LO8 LO9
15	Structural organization of human physiological processes (Molecular Biology, Histology, Microbiology and Chemistry)	<i>Integrated discipline:</i> the formation of fundamental knowledge aimed at understanding the main aspects of the structural organization of human physiological processes, and especially in children: metabolic processes, cell structure, their polymorphism, the relationship of their structure and functions, the principles of the tissue level of the organization of living matter; the ability to apply the acquired knowledge in practice to explain pathological conditions and disorders, to develop strategies and methods of treatment, prevention of diseases in children, ensuring the safety and effectiveness of medical care, as well as conducting research in this area.	BD	UC	6	LO1 LO2 LO12
16	Genes and heredity (Molecular Biology,	<i>Integrated discipline:</i> formation of understanding about the basic concepts and principles of genetics: the	BD	UC	4	LO1 LO2

	Human embryology, bioorganic chemistry, medical genetics)	structure and function of genes, mechanisms of inheritance and mutation; skills: analyze and interpret genetic data; explain hereditary laws and their application in practical situations, as predicting the risk of developing genetic diseases in children. The acquired knowledge will allow in medical practice: to successfully prevent genetic diseases in children; to properly consult patients and develop individual treatment plans; effectively interact with patients and colleagues in the field of genetics and heredity.				LO12
17	Musculoskeletal system and skin are normal in children (anatomy, physiology, histology, basics of radiation diagnostics, Latin)	<i>Integrated discipline:</i> formation of fundamental knowledge about anatomical, physiological and age-related features and structure of the musculoskeletal system and skin in children: posture and signs of correct posture; chemical composition of bones, ossification process; classification and properties of muscle tissues; musculoskeletal functions of the child's skeleton; macroscopic and microscopic structure of bones, joints, muscles, skin. X-ray anatomy of the musculoskeletal system in children. Visual methods of studying the musculoskeletal system and skin in children. The acquired knowledge will allow in the medical practice of a pediatrician: to correctly conduct and analyze the results of studies to assess the condition of the musculoskeletal system and skin in children, to develop and implement preventive and rehabilitative measures to preserve the health of children.	BD	UC	7	LO1 LO2 LO5
18	The nervous system and sensory organs (hearing and balance, vision) are normal in children (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction to the clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about morphofunctional and biochemical features of the nervous system and sensory organs (hearing and balance, vision) in children, their topical basis for physical diagnostics, about age-related morphophysiology and visual methods of studying the nervous system, sensory organs (hearing and balance, vision) in children. The acquired knowledge will allow	BD	UC	6	LO1 LO2 LO5

		in medical practice: correctly determine the normal development and functioning of the nervous system and sensory organs in children, diagnose and analyze the results of studies to assess their conditions, treat disorders, develop and implement preventive and rehabilitative measures to preserve the health of children.				
19	The cardiorespiratory system is normal in children (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction to the clinic)	<i>Integrated discipline:</i> the formation of fundamental knowledge about the morphofunctional, biochemical features of the cardiorespiratory system in children, their topical basis for physical diagnostics, the main indicators of the functioning of the heart and lungs in children of various ages, visual methods of studying the cardiorespiratory system of the system in children; the ability to assess the state of the cardiorespiratory system with the help of clinical methods and instrumental studies. The acquired knowledge will allow in medical practice: correctly determine the normal development and functioning of the cardiorespiratory system in children, diagnose and analyze the results of studies to assess their conditions, treat disorders, develop and implement preventive and rehabilitative measures to preserve the health of children.	BD	UC	7	LO1 LO2 LO5
20	Digestive and endocrine systems are normal in children (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction to the clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about morphofunctional and biochemical features of the digestive and endocrine systems in children, about anatomical and physiological features of the gastrointestinal tract and endocrine system in children, by visual research methods in children. The acquired knowledge will allow in medical practice: correctly determine the normal development and functioning of the digestive and endocrine systems in children, diagnose and analyze the results of studies to assess their conditions, treat disorders, develop and implement preventive and rehabilitative measures to	BD	UC	5	LO1 LO2 LO5

		preserve the health of children.				
21	The genitourinary system is normal in children (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics, introduction to the clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about morphofunctional and biochemical features of the genitourinary system in children, on the peculiarities of embryogenesis of the urinary system, on syntopy, holotopy, skeletotopy of the genitourinary organs and clinical, visual research methods in children. The acquired knowledge will allow in medical practice: correctly determine the normal development and functioning of the genitourinary system in children, diagnose and analyze the results of studies to assess their conditions, treat disorders, develop and implement preventive and rehabilitative measures to preserve the health of children.	BD	UC	5	LO1 LO2 LO5
22	Blood and lymph in children are normal (anatomy, physiology, histology, biochemistry, introduction to the clinic)	<i>Integrated discipline:</i> formation of fundamental knowledge about morphofunctional and biochemical features of blood and lymph in children, about the organs of hematopoiesis and the immune system, about the morphology of blood cells and types of immunity, about clinical, laboratory, visual methods of research in children. The acquired knowledge will allow in medical practice: correctly determine the normal development and functioning of the hematopoietic and lymphatic systems in children, diagnose and analyze the results of studies to assess their conditions, treat disorders, develop and implement preventive and rehabilitative measures to preserve the health of children.	BD	UC	3	LO1 LO2 LO5
23	Educational practice "As an assistant ward and procedural nurse"	Formation of skills of effective communication with the patient and their parents, high-quality performance of professional duties, organization of self-control in order to continuously improve their activities; skills of pre-medical care to patients and organization of work in medical organizations: methods of using medicines, organization of the work of the treatment room, methods of performing injections, technique of blood and urine sampling for laboratory studies, preparation of patients for X-ray, instrumental, ultra-sound and other research methods.	BD	UC	2	LO2 LO3 LO4 LO8 LO13

24	Introduction to scientific research (Public health and biostatistics)	<i>Integrated discipline:</i> formation of knowledge about the basic principles and concepts of public health, about the principles of design and planning of research in the field of health, about methods and statistical indicators of public health for the description and interpretation of data; skills: to analyze and evaluate the state of public health and identify factors affecting it; to develop and implement measures to improve public health and prevention of diseases; work with statistical computer programs and conduct statistical modeling; use biostatistical methods to assess the effectiveness of measures to improve public health.	BD	UC	6	LO 1 LO 4 LO10 LO 11 LO13
25	Fundamentals of project activity and evidence-based medicine	<i>Integrated discipline:</i> formation of knowledge: about the basic methods and tools of project management in medicine; skills of planning, organization and project management; systematic review of literature and synthesis of scientific data; basic principles, methods, ethical and legal aspects of evidence-based medicine; skills: to communicate and cooperate within project teams; to analyze and predict risks and effectiveness projects in healthcare, critically analyze scientific research in medicine; to apply evidence-based medicine in clinical practice and make informed decisions; the use of preventive, diagnostic and therapeutic interventions based on the available evidence of their effectiveness and safety.	BD	UC	4	LO1 LO5 LO7 LO12
26	Microbiology and Immunology	The discipline will allow you to study the basics of the morphophysiology of bacteria, viruses, the mechanisms of transmission of infections, the issues of etiopathogenesis and the functioning of the immune response system in the human body. The discipline, being an important component of biomedical science, promotes the development of medical technologies and methods of treatment of infectious and non-communicable diseases, which will allow the future pediatrician to protect public health, develop preventive measures and measures to protect medical personnel.	BD	UC	5	LO1 LO7 LO11 LO13

27	General pathology (pathological anatomy and pathological physiology)	<i>Integrated discipline:</i> 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 micro-preparations, understanding of pathophysiological foundations for the prevention and treatment of various diseases. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, and develop a treatment plan based on pathological data.	BD	UC	6	LO1 LO5
28	Nervous system and sensory organs (hearing and balance, vision) in children in pathology (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology)	<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, microbiology of microorganisms of frequently occurring pathological processes of the nervous system, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases of the nervous system, sensory organs (hearing and balance, vision) in children. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes in the nervous system and sensory organs (hearing and balance, vision) in children at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, develop a treatment plan based on pathological data.	BD	UC	6	LO1 LO2 LO5

29	Cardiorespiratory system in children in pathology (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology)	<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, microbiology 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 children. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes in the cardiorespiratory system in children at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, and develop a treatment plan based on pathological data.	BD	UC	9	LO1 LO2 LO5
30	Digestive and endocrine systems in children in pathology (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology)	<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, microbiology 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 children. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes in the digestive and endocrine systems in children at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, and develop a treatment plan based on pathological data.	BD	UC	6	LO1 LO2 LO5
31	Genitourinary system in	<i>Integrated discipline:</i> formation of fundamental	BD	UC	5	LO1

	children in pathology (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology)	knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, etiology, pathogenesis, morphogenesis, microbiology 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. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes in the genitourinary system in children at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, and develop a treatment plan based on pathological data.				LO2 LO5
32	Blood and lymph in children in pathology (biochemistry, pathological anatomy, pathological physiology, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology)	<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, microbiology of microorganisms of frequently occurring pathological processes of the hematopoietic and lymphoid systems, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in children. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes in the hematopoietic and lymphatic systems in children at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, and develop a treatment plan based on pathological data.	BD	UC	5	LO1 LO2 LO5
33	Musculoskeletal system and skin in children in pathology (biochemistry, pathological	<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,	BD	UC	6	LO1 LO2 LO5

	anatomy, pathological physiology, radiation diagnostics, propaedeutics of internal diseases, propaedeutics of childhood diseases, pharmacology)	morphogenesis, microbiology 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. The acquired knowledge will allow in medical practice to correctly analyze and interpret pathological changes in the musculoskeletal system and skin in children at the micro and macro levels, as well as apply them to make a preliminary diagnosis, select appropriate research methods, and develop a treatment plan based on pathological data.				
34	Industrial practice "As an assistant to a resident doctor-1" (propaedeutics of children's diseases)	Acquisition of practical skills in medical, diagnostic manipulations, care of children's patients. 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 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 their activities.	BD	UC	4	LO2 LO3 LO4 LO8 LO10
35	Hygiene and epidemiology (general hygiene, epidemiology and infection control in medical organizations)	<i>Integrated discipline:</i> Formation of the basics of the organization of sanitary-hygienic and anti-epidemic work, infection control of nosocomial infections in medical organizations; the ability to apply methods of prevention and control of the spread of diseases among the population and in hospital institutions, conduct epidemiological analysis and assessment of the health of the population, which will allow the specialist to work effectively in the hospital environment, maintain the safety of patients and staff, prevent the spread of infections and diseases, as well as plan measures for the	BD	UC	6	LO1 LO7 LO10 LO13

		prevention and control of infectious diseases.				
36	General surgery	Formation of skills in the organization of primary surgical care: aseptics and antiseptics; injuries, burns and assistance with them; wounds and wound process and types of surgical sutures; bleeding, blood loss and assistance with them; local and regional anesthesia in surgery, general anesthesia; issues of ethics and deontology in surgery; issues of hospitalization. The acquired knowledge will allow in medical practice: to correctly diagnose and analyze the results of research to assess the condition of surgical patients, provide surgical care, develop and implement preventive and rehabilitative measures to preserve the health of children.	BD	UC	3	LO1 LO2 LO3 LO5 LO6 LO10
37	Topographic anatomy and operative surgery	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-related features of the structure, shape and position of organs in children; technique of performing basic surgical techniques using general surgical and specialized instruments; issues of ethics and deontology. In professional activity, a pediatrician can apply the acquired topographic and anatomical knowledge to substantiate the diagnosis, explain the features of the course of pathological processes, solve diagnostic and anatomical-surgical tasks.	BD	UC	4	LO1 LO3 LO5
38	Diseases of the nervous system, sensory organs (hearing and balance, vision) in children (pediatric neurology, pediatric diseases, clinical	<i>Integrated medicine:</i> formation of skills for conducting examinations of children's patients, interpreting the results of the examination, making a preliminary diagnosis, determining the volume of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention of diseases of various	SD	UC	9	LO1 LO2 LO3 LO5 LO6

	pharmacology, visual diagnostics, pediatric oncology, pediatric otolaryngology, pediatric ophthalmology)	parts of the nervous system, sensory organs (hearing and balance, vision) in children; performing basic medical diagnostic and therapeutic measures for providing first aid to victims in urgent and life-threatening conditions. Tactics of patient management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of diseases of the nervous system, sensory organs (hearing and balance, vision) in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating harmful effects of environmental factors on human health				
39	Diseases of the digestive and endocrine system in children (children's diseases, visual diagnostics, clinical pharmacology, pediatric oncology)	<i>Integrated discipline:</i> formation of skills for conducting examinations of children's patients, interpreting the results of the examination, making a preliminary diagnosis, determining the volume of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention of diseases of the digestive and endocrine systems in children. Tactics of patient management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of diseases of the digestive and endocrine systems in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health. habitat.	SD	UC	6	LO1 LO2 LO3 LO4 LO5 LO9
40	Diseases of the musculoskeletal system and	<i>Integrated discipline:</i> formation of skills for conducting examinations of children's patients, interpreting the	SD	UC	8	LO1 LO2

	skin in children (children's diseases, clinical pharmacology, pediatric traumatology, visual diagnostics, pediatric oncology, dermatovenerology)	results of the examination, making a preliminary diagnosis, determining the volume of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention of diseases of the musculoskeletal system and skin in children. Tactics of patient management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of diseases of the musculoskeletal system and skin in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects on human health factors its habitat.				LO3 LO4 LO5 LO9
41	Pediatric infectious diseases with clinical immunology and microbiology (infantile infections, childhood infections, fundamentals of clinical immunology, clinical microbiology)	<i>Integrated discipline:</i> formation of the basic foundations of modern infectology of children, its relationship with clinical microbiology, immunology; skills of conducting examination of patients, interpreting examination results, making a preliminary diagnosis, determining the volume of additional studies to clarify the diagnosis, formulation of clinical diagnosis, pharmacotherapy and prevention of infectious diseases in children. Tactics of patient management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of infectious diseases in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health.	SD	UC	10	LO1 LO2 LO3 LO4 LO5 LO9 LO10 LO13
42	Pediatric phthisiology	Formation of skills for conducting examinations of children's patients, interpreting the results of the	SD	UC	3	LO1 LO4

		examination, making a preliminary diagnosis, determining the scope of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention. Tactics of patient management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of tuberculosis in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health.				LO5 LO9 LO10 LO12 LO13
43	Obstetrics	Formation of knowledge and mastering of the main stages of medical and diagnostic work with pregnant women, women in labor and maternity hospitals; formation of the ability to make and justify a clinical diagnosis, to conduct differential diagnosis of pathological conditions of pregnant women, women in labor, women in labor, complications of pregnancy, childbirth and to provide emergency care for emergency conditions in obstetrics. The acquired knowledge of the processes of conception, the course of pregnancy, childbirth and the early neonatal period, which determine the health of children in the perinatal period and subsequent life, will allow the pediatrician to solve problems of maternal and child health in his professional activity, improve his activities and conduct research in the field of obstetrics	SD	UC	4	LO1 LO2 LO3 LO5 LO9 LO10 LO12
44	Gynecology (pediatric gynecology, oncogynecology)	<i>Integrated discipline:</i> formation of skills in the organization of health protection of children and adolescents; family planning; application of methods of contraception based on scientific principles; diagnosis, treatment and prevention of pediatric gynecological	SD	UC	5	LO1 LO4 LO5 LO9 LO12

		diseases. Mastering the main stages of medical and diagnostic work by gynecological patients of child and adolescent age. Oncogynecology: types, causes of development, diagnosis and treatment. The acquired theoretical knowledge and practical skills will allow the pediatrician to freely solve professional tasks, improve his activities and conduct research in the field of preserving the reproductive health of children and adolescents.				
45	Mental disorders (child psychiatry, narcology)	<i>Integrated discipline:</i> formation of knowledge on the basics of organization of psychiatric and narcological care for children and adolescents; skills of conducting clinical and psychological, psychological, pathopsychological, neuropsychological, narcological examination in childhood and adolescence, therapy, prevention and psychocorrection of mental disorders in children and adolescents. Questions of ethics and deontology. The formed basic, fundamental medical knowledge will allow you to successfully solve your professional tasks and carry out diagnostic, preventive and rehabilitative measures to preserve the life and health of children and adolescents.	SD	UC	3	LO2 LO3 LO5 LO8 LO10
46	Pediatric surgery, traumatology and orthopedics	<i>Integrated discipline:</i> formation of knowledge about modern problems of pediatric surgery, traumatology and orthopedics, and the clinical picture of surgical diseases in children; skills of diagnosis, treatment and prevention of surgical, traumatological and orthopedic pathology in children; emergency care at the pre-hospital stage; tactics of management of patients with surgical pathology and indications for hospitalization. Questions of ethics and deontology. Priority research, new technologies of diagnostic methods, surgical interventions, treatment and rehabilitation based on scientific principles. The acquired knowledge will allow the pediatrician in his professional activity to carry out a	SD	UC	5	LO2 LO3 LO4 LO5 LO8 LO9 LO12

		set of measures aimed at preserving and strengthening the health of children and adolescents.				
47	Bioethics and scientific research in medicine	<p>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; skills of formulating a research question, hypothesizing and choosing a research methodology in medicine; literature review, collection and analysis of scientific articles, design selection, obtaining and analyzing information, drawing conclusions, transfer and use of research knowledge, design of scientific papers.</p> <p>The acquired knowledge will allow the pediatrician to detect and implement innovative methods and means of treatment, improving the results of treatment and increasing the chances of recovery and more accurate diagnosis and prediction of childhood diseases.</p>	SD	UC	3	LO 1 LO3 LO 4 LO11 LO12
48	Industrial practice "As an assistant to a resident doctor-2" (children's diseases)	<p>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. Compliance with the principles of child health protection. Documentation.</p>	SD	UC	4	LO2 LO3 LO4 LO6 LO8 LO10 LO11
49	Diseases of the cardiorespiratory system in children (children's diseases, clinical pharmacology, visual diagnostics, pediatric oncology, emergency medical	<i>Integrated discipline:</i> formation of skills for conducting examinations of children's patients, interpreting the results of the examination, making a preliminary diagnosis, determining the scope of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention of diseases of the cardiorespiratory system in children. Tactics of patient	SD	UC	9	LO1 LO2 LO3 LO4 LO5 LO6 LO8

	care)	management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of diseases of the cardiorespiratory system in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health.				LO9
50	Diseases of the urinary system in children (childhood diseases, clinical pharmacology, visual diagnostics, pediatric oncology)	<i>Integrated discipline:</i> formation of skills for conducting examinations of children's patients, interpreting the results of the examination, making a preliminary diagnosis, determining the scope of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention of diseases of the urinary system in children. Tactics of patient management. Questions of ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of diseases of the urinary system in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health.	SD	UC	5	LO1 LO2 LO3 LO4 LO5 LO6 LO8 LO9
51	Diseases of blood and lymph in children (children's diseases, clinical pharmacology, pediatric oncology)	<i>Integrated discipline:</i> formation of skills for conducting examinations of children's patients, interpreting the results of the examination, making a preliminary diagnosis, determining the scope of additional studies to clarify the diagnosis, formulating a clinical diagnosis, pharmacotherapy and prevention of diseases of the hematopoietic and lymphatic systems in children. Tactics of patient management. Questions of ethics and	SD	UC	4	LO1 LO2 LO3 LO4 LO5 LO6 LO8 LO9

		deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and strengthening health, preventing the occurrence and/or spread of diseases of the hematopoietic and lymphatic systems in children, their early diagnosis and treatment, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health. habitat.				
52	Clinical pathomorphology and forensic medicine	<i>Integrated discipline:</i> Formation of skills of in-life and postmortem pathomorphological diagnostics of common diseases and urgent conditions in children: pathoanatomic autopsy, protocol, epicrisis, formulation of 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. Features of pathoanatomic examination of fetal and child corpses that died in the perinatal period and infancy. Skills of examination of corpses of children with various signs of violent and nonviolent death. Filling out a medical death certificate, coding the causes of death of children.	SD	UC	3	LO1 LO3 LO4 LO11
53	Children's diseases in primary health care	Formation of skills and abilities for the diagnosis, treatment of diseases and conditions, medical rehabilitation, prevention and formation of a healthy lifestyle and sanitary and hygienic education of the child population in primary health care; maintaining basic accounting records and electronic document management in healthcare organizations; carrying out anti-epidemic measures and vaccination, medical examination. The acquired knowledge will allow the implementation of the main tasks of the district pediatrician in the protection of children's health, ensuring the harmonious development of the child, helping parents in his upbringing, prevention of somatic and infectious diseases.	SD	UC	5	LO1 LO3 LO4 LO5 LO6 LO7 LO10 LO13

54	Industrial practice "As an assistant pediatrician in primary health care "	Formation of skills for organizing the work of a pediatrician in primary health care, the basics of management of a medical outpatient clinic; maintaining accounting and reporting documentation in health information systems. Effective interaction with specialists and patients in solving health problems. Algorithms of rational differential diagnosis, management tactics and dynamic observation of patients. Diagnosis and provision of emergency and emergency medical care to patients with acute diseases of internal organs at the pre-hospital stage. Prevention of diseases in children. Communicative competence in extreme situations.	SD	UC	4,0	LO2 LO3 LO4 LO5 LO7 LO8 LO10 LO11 LO13
55	Management	Management as an informational and functional process. Principles and methods of management. Modern management approaches. Integration processes in management. Management information support system. Control in the management system. Organization as a system. Basic management functions. Connecting processes in management. The manager in the management system. Leadership, power and leadership. Conflict management in the organization. Management of organizational culture. Management of organizational changes. Social responsibility of the organization. Business ethics.	BD	UC	2	LO3 LO9 LO10
56	Management Psychology	Formation of the psychological management culture of the head, which allows to effectively carry out 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.	BD	UC	2	LO3 LO9 LO10

57	Foreign language (professional)	Formation of skills of using language and speech means based on a system of grammatical knowledge to build communication programs, self-improvement and professional success in a foreign language; communication in a foreign language in oral and written form to solve problems of interpersonal, intercultural and professional communication; application of scientific knowledge and information analysis in accordance with the conditions of communication and interpersonal social and professional formation of the ability to communicate in a foreign language in a foreign language.	BD	UC	2	LO2 LO9 LO12
58	Clinical epidemiology*	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 causes and conditions of their occurrence and development; for the organization and conduct of scientific research, including the choice of goals and formulation of tasks, planning, selection of adequate methods, collection, processing, use of information technologies, data analysis and public presentation. The acquired knowledge is necessary for a pediatrician in medical activity for the implementation of a set of measures for early diagnosis, identification of the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health	BD	OC	4	LO10 LO11 LO12 LO13

59	Management in healthcare*	Formation of knowledge about the basic functions and principles of modern management practices of healthcare institutions, and systems of strategic and operational planning; skills to assess the external and internal environment of the organization using modern methods of diagnostics of healthcare organizations; communication and interpersonal communication in the business environment; skills to carry out activities related to the management or actions of individual employees, to assist subordinates; to organize work on a scientific basis, to plan the production and economic activities of a medical institution, depending on changes in the market conditions of educational services and consumer demand. The acquired knowledge is necessary for a pediatrician in medical activity for the effective organization of business processes, management processes and functioning processes of healthcare organizations.	BD	OC		LO10 LO11 LO12
60	Digital Medicine*	Formation of knowledge about digital technologies in the field of medicine and healthcare, about modern software and hardware for processing medical information, about the processes and methods of processing medical information, ways of practical use of information flows in the professional activity of a doctor, about Internet medical resources, forms and possibilities of telemedicine services; skills and abilities of using computer applications, information support tools medical solutions, automated medical and technological systems. The acquired knowledge is necessary for a pediatrician in medical activities to solve the problems of medicine and healthcare: planning medical services; making a diagnosis using artificial intelligence; checking the correctness of the prescribed drug and its dosage; access to a complete history of diseases and seeking medical help, notifications and reminders of cases or patients; access to information about the availability of available resources (drugs, medical devices, equipment, services, beds) to redirect the patient; access to reliable depersonalized information for medical research, development of standards and treatment protocols, etc.	BD	OC		LO10 LO11 LO12

61	Ambulatory polyclinic pediatrics	Formation of skills and abilities of organizing and conducting a complex of preventive measures (dynamic medical supervision of children of various age groups, the frequency of complex examinations by their doctors of narrow specialties); medical and advisory assistance at home and in a polyclinic; medical examination and rehabilitation, therapeutic and preventive care in preschool institutions and schools; anti-epidemic measures and vaccination immunoprophylaxis; providing first aid for emergency conditions in children and adolescents; maintaining medical records, including in electronic form. The acquired knowledge will allow the pediatrician in medical activity to provide full medical care, including in critical conditions, to carry out preventive and rehabilitative measures to preserve life and health at all age periods of children's lives and successfully solve their professional tasks.	SD	UC	7	LO1 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12
62	Outpatient pediatric surgery	Formation of knowledge and skills on the basic principles of diagnosis and treatment of surgical pathology of childhood in polyclinic conditions based on modern scientific achievements in the field of pediatric surgery. Working with documentation in the information system. Communication skills, ethics and deontology. The acquired knowledge will allow the pediatrician in medical activity to provide full medical care, including in critical conditions, to carry out preventive and rehabilitative measures to preserve life and health at all age periods of children's lives and successfully solve their professional tasks.	SD	UC	5	LO1 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12

63	Emergency medical care in pediatrics	Formation of knowledge of the organizational foundations of providing assistance to children in critical and terminal conditions, skills and abilities for diagnosing critical conditions in children, conducting post-syndrome therapy for children in urgent and critical conditions; conducting emergency care in critical conditions, possession of techniques for the operation of medical and monitoring equipment; forced ventilation, tracheal intubation, methods of local and regional anesthesia; modern methods of complex cardiovascular and cerebral resuscitation. The acquired knowledge will allow the pediatrician in medical activity to provide full medical care, including in critical conditions, to carry out preventive and rehabilitative measures to preserve life and health at all age periods of children's lives and successfully solve their professional tasks.	SD	UC	5	LO4 LO5 LO6
64	Modern approaches to diagnosis and treatment in neonatology	Formation of knowledge about the physiological and pathological processes in the body of a newborn child; mastering methods of examination of newborns and premature babies, acquisition of skills of resuscitation and intensive care, methods of feeding and caring for critically ill and deeply premature newborns; skills of applying optimal methods of diagnosis and treatment of diseases in children of the first four weeks of life, as well as rehabilitation of sick newborns, creation in the neonatal period of conditions necessary for the formation of a state of health throughout the subsequent life of a person; provision of planned and emergency care for the pathology of newborn children. The acquired knowledge will allow the pediatrician in medical activities to provide full medical care, including in critical conditions, to carry out preventive and rehabilitative measures to preserve the life and health of newborn children and successfully solve their professional tasks.	SD	UC	5	LO1 LO5 LO6 LO7 LO8 LO10 LO11 LO12

65	Nutritionology in pediatrics*	Formation of knowledge in the field of organization of rational nutrition of children, taking into account age and lifestyle, according to the method of feeding full-term and premature babies; parenteral nutrition of children; according to the principles of prescribing diet therapy to children with various pathologies during rehabilitation; skills: to assess the nutritional status of the child according to anthropometry; to make a diet and carry out nutraceutical correction, taking into account individual characteristics and needs of the child; identify and correct deficiencies with the help of nutrition; use the basic principles of the organization of therapeutic nutrition for various nosological units. The acquired knowledge will allow the pediatrician in his activities to provide full medical care and carry out preventive and rehabilitative measures to preserve the life and health of children	SD	OC	3	LO1 LO5 LO7 LO8 LO10
66	Pediatric otorhinolaryngology in primary health care *	Formation of theoretical and practical knowledge, skills and abilities in relation to diagnosis, treatment, medical examination, prevention of the most common diseases of the ENT organs in children and the provision of emergency otorhinolaryngological care in primary health care. Ethics and deontology. Documenting the processes of the services provided. The acquired knowledge will allow the pediatrician in his activities to provide full medical care and carry out preventive and rehabilitative measures to preserve the life and health of children.	SD	OC		LO2 LO3 LO5 LO6 LO7 LO8 LO11

67	Pediatric Ophthalmology in primary health care *	Formation of theoretical and practical knowledge, skills and abilities in relation to diagnosis, treatment, medical examination, prevention of the most common diseases of the visual organ and accessory apparatus and the provision of emergency ophthalmological care in primary health care. Ethics and deontology. Documenting the processes of the services provided. The acquired knowledge will allow the pediatrician to effectively solve professional medical tasks based on diagnostic research data and analysis of data on pathological processes, conditions, reactions and diseases of the visual organ and accessory apparatus using knowledge about the general patterns and mechanisms of their occurrence, development and completion, as well as formulate principles (algorithms, strategy) and methods of their detection, treatment and prevention.	SD	OC		LO2 LO3 LO5 LO6 LO7 LO8 LO10 LO11
Internship					30	
68	Children's diseases	Formation of skills for diagnosis, treatment, prevention of major diseases of childhood and emergency care for the child population based on modern methods of examination 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. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and improving the health of children and adolescents by ensuring the proper quality of medical care (therapeutic, preventive, medical and social) and dispensary supervision.	SD	UC	12	LO2 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12
69	Pediatric gynecology	Formation of knowledge on the basics of organization of gynecological care for children and on the algorithm of management of children with gynecological diseases; skills of diagnosis, treatment, prevention, dispensary observation, rehabilitation, medical, social and emergency care for pediatric gynecological patients based on modern methods and scientific data. Teenage contraception. Working with documentation in an electronic system. Communication skills, self-control, patient support. The acquired knowledge will allow the	SD	UC	5	LO2 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12

		pediatrician in his professional activity to carry out a set of measures aimed at preserving and improving the health of children and adolescents by ensuring the proper quality of medical care.				
70	Pediatric surgery	Formation of knowledge and skills on the basic principles of diagnosis and treatment of surgical pathology of childhood in stationary conditions, based on modern scientific achievements in the field of pediatric surgery. Working with documentation in the information system. Communication skills, ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and improving the health of children and adolescents by ensuring the proper quality of medical care.	SD	UC	5	LO2 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12
71	Children's infectious diseases	Formation of skills and abilities to work on algorithms of early and differential diagnosis, tactics of treatment and prevention and management of patients with infectious diseases based on modern methods and scientific data, first aid in emergency conditions in children and adolescents with infectious pathology, specific and nonspecific prevention of infection in children in outpatient settings, conducting medical examinations of children in polyclinic conditions; evaluation of the effectiveness of child management from the standpoint of evidence-based medicine. Working with documentation in the information system. Communication skills, ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and improving the health of children and adolescents by ensuring the proper quality of medical care.	SD	UC	5	LO2 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12

72	Pediatric phthisiology in primary health care *	Formation of skills and abilities to work on algorithms of early and differential diagnosis, tactics of treatment and prevention and management of patients with tuberculosis based on modern methods and scientific data, first aid in emergency conditions in children and adolescents, specific and non-specific prevention in outpatient settings, medical examination of children in a polyclinic; evaluation of the effectiveness of child management from the standpoint of evidence-based medicine. Working with documentation in the information system. Communication skills, ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and improving the health of children and adolescents by ensuring the proper quality of medical care.	SD	OC	3	LO2 LO5 LO6 LO7 LO8 LO9 LO10 LO11 LO12 LO13
73	Integrated management of childhood illness in primary health care *	Formation of skills and management skills of the most significant diseases in children such as: diarrhea, pneumonia, eating disorders, anemia, low weight, throat problems, ear problems; sorting children by severity and early decision-making in emergency care and hospitalization, according to general signs of danger, based on evidence-based medicine. The acquired knowledge will allow the pediatrician in his professional activity to improve the management of childhood diseases with aspects of nutrition, immunization and some other important factors affecting the health of the child, which will eventually lead to a decrease in morbidity, mortality and disability, as well as improve the physical and mental development of children.	SD	OC		LO5 LO6 LO8 LO10
74	Organization of pediatric anesthesiological and resuscitation work*	Formation of knowledge, skills, skills of the initial examination of an anesthesiologist, filling out the anesthesia card, anesthesia protocol, diary of a pediatric resuscitator, preoperative examination, premedication and general anesthesiology; conducting cardiopulmonary and extended cardiopulmonary resuscitation in children; possession of the latest technologies and techniques in the field of anesthesiology and resuscitation of children. The acquired knowledge will make it possible to prepare a	SD	OC		LO2 LO4 LO5 LO8 LO10 LO11

		pediatrician for independent professional medical and diagnostic activities, who is able to conduct differential diagnostic search, provide full medical care, including in critical conditions, carry out preventive and rehabilitation measures to preserve life and health at all age periods of children's lives and successfully solve their professional tasks.				
75	Experimental research work				13	
76	Writing and defending a master's project and preparing and passing a comprehensive exam				12	
	<i>Preparation and passing of a comprehensive exam</i>				4	
	<i>Writing and defending a Master's project</i>				8	
	TOTAL				360	

Note: *- Optional component disciplines