«PEDIATRICS» (name of the academic discipline)

General Educational Program of higher education (specialist's degree programs): 31.05.03 DENTISTRY

Department: FACULTY AND POLYCLINIC PEDIATRICS

1. The purpose of mastering the discipline (*participation in the formation of relevant competencies – specify the codes*):

UC - 1, UC - 4, UC - 5 GPC - 4, GPC - 5, GPC - 7, GPC - 10 PC - 1, PC - 3, PC - 8, PC - 9

Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy (UC-1)

Able to apply modern communication technologies, including the use of a foreign language(s), for academic and professional interaction (UC-4)

Able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction (UC-5)

Able to apply medical products, provided by the order of healthcare delivery, as well as examine patients for the purpose of determining the diagnosis (GPC-4)

Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems (GPC-5)

Able to prescribe treatment and monitor its effectiveness and safety (GPC-7)

Able to understand the principles of modern information technologies and use them to solve the tasks of professional activity (GPC - 10)

Able to collect a genealogical history, get the necessary information about parents, next of kin and persons caring for a child (PC - 1)

Able to collect the anamnesis of life and the anamnesis of the child's disease (PC-3) Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD) (PC – 8)

Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current **procedures** for the medical care delivery, **clinical recommendations** (treatment protocols) on the provision of medical care taking into account the **standards** of medical care and to evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment (PC – 9)

2. Position of the academic discipline in the structure of the General Educational Program (GEP).

The discipline PEDIATRICS refers to the core part (or *the part formed by the participants of educational relations*) of Block 1 of GEP HE (Academic discipline index).

The discipline is taught in 5 semester/3 year of study.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

pi	olessional (G	PC) or/and professiona	ii (PC) competencies			· · · · · ·
_	Competen	The content of the	Code and name of		of mastering the students sho	the discipline, ould:
№	ce code	competence (or its part)	the competence acquisition metric	know	be able to	possess
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	UC-1.1 is able to search, critically analyze and synthesize information, apply a systematic approach to solving tasks UC-1.2 He is able to apply methods of collecting, collecting and processing information; performs critical analysis and synthesis of information obtained from various sources; applies a systematic approach to solving tasks. UC-1.3 Owns the methods of search, collection and processing, critical analysis and synthesis of information; the methodology of a systematic approach to solving the tasks.	methods of critical analysis and evaluation of modern scientific achieveme nts; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the profession al field; search for informatio n and solutions based on action, experiment and experience	researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems
2.	UC-4	Able to apply modern communication technologies, including the use of a foreign language(s), for academic and professional interaction	UC-4.1 is able to work with literary sources in Russian and a foreign language UC-4.2 Build and maintain relationships with all members of the team, establish	the basics of oral and written communic ation in Russian and foreign languages, functional	express thoughts in Russian and a foreign language in business communic ation	writing texts in Russian and foreign languages related to the professional activity; experience in translating medical texts

	Practic al experience in productive
diversity of cultures in the process of cross-cultural interactionsocio-historical development of various culturesphilosophy 	interaction in the professional environment taking into account national, ethno- cultural, confessional features overcoming communicati ve, educational, ethnic, confessional and other barriers in the process of intercultural interaction
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				medical	medical	procedures
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				medical	patients to	additional
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				protocols)	ons in	making a
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				care	current	accordance
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					taking into	differential
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					patients for	sudden acute
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					ns to	exacerbation
					medical	of chronic
					specialists	diseases
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					accordance	obvious signs
					with the	of a threat to
					procedures	the patient's
					of medical	life and
					care,	requiring
					clinical	urgent
					recommen	medical care;
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5.	GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	GPC-5.1 He knows the functional systems of the human body, their regulation and self-regulation when interacting with the external environment in normal and pathological	Anatomy, histology, embryolog y, topographi c anatomy, physiology , pathologic al anatomy and physiology	form; use medical devices in accordance with current medical procedures , clinical recommen dations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care Evaluate the basic morpholog ical and functional data, physiologi cal conditions and pathologic al	Assessment of basic morphologic al and functional data, physiological conditions and pathological processes in the child's
			normal and	and	pathologic	processes in

			child and is able			
			to measure them			
6.	GPC-7	Able to prescribe treatment and monitor its effectiveness and safety	to measure them GPS-7.1 Selects a drug based on the totality of its pharmacokinetic and pharmacodynamic characteristics for the treatment GPS-7.2 Selects the optimal minimum of the most effective means, using convenient ways of their application GPC-7.3 applies indicators of morphofunctional, physiological state and pathological process for examination of the child's body in order to establish a diagnosis, appointment treatment and monitoring of its effectiveness and safety GPC-7.4 Evaluates efficiency and safety drug therapy based on a combination of clinical laboratory, instrumental and other diagnostic methods	methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care in the treatment of the most common diseases; the mechanis m of their action, medical indications and contraindic ations to the prescriptio n compatibil ity, possible complicati ons, side effects, adverse reactions, including serious and unforeseen ; features of medical care in	develop a treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines taking into account the standards of medical care; prevent or eliminate complicati ons, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulati ons, the use of drugs and (or) medical devices, non-drug treatment	developing a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases
1				emergency		

GPC-10	Able to understand the principles of modern information technologies and use them to solve the tasks of professional activity	GPC-10.1 able to solve standard tasks of professional activity with the possibility of preparing reviews, abstracts, scientific reports, publications and bibliographies on research work, taking into account the requirements of information security	the capabilities of reference informatio n systems and profession al databases; methods of informatio n retrieval, informatio n and communic ation technologi es; modern medical and biological terminolog y; fundament als of informatio n security in profession al activities	carry out an effective search for informatio n necessary to solve the tasks of profession al activity using reference systems and profession al databases; use	use of modern information and bibliographi resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security

					informatio n security	
8.	PC-1	Able to collect a genealogical history, get the necessary information about parents, next of kin and persons caring for a child	PC – 1.1 to compile a pedigree of the patient in order to identify monogenic and chromosomal diseases PC-1.2 carrying out a quantitative and qualitative assessment of the burden of genealogical history PC-1.3 the establishment of burden with the identification of predisposition to certain diseases	make a family tree within three generation s	Establish contact with the child, the parents of the child to receive informatio n about the presence of hereditary and chronic diseases in the immediate family and persons caring for the child	the methodology of collecting and evaluating data on the health status of the closest relatives and persons caring for the child (hereditary and chronic diseases)
9.	PC-3	Able to collect the anamnesis of life and the anamnesis of the child's disease	PK-3.1 assess the clinical picture of diseases and conditions requiring emergency care for children PK-3.2 Assess the clinical picture of diseases and conditions requiring emergency care for children	Methods of collecting anamnesis of the child's life; obtaining informatio n about diseases and surgical interventio ns (which and at what age); obtaining informatio n about preventive vaccinatio ns; assessing the condition and well- being of the child; features of diagnosis	Receive informatio n about the history of the child's life, including from which pregnancy and which child, about the outcomes of previous pregnancie s, about the course of this pregnancy and childbirth, the condition of the child at birth and during the period of new birth,	Examine and evaluate the skin, the severity of subcutaneous fat, nails, hair, visible mucous membranes, lymph nodes, organs and systems of the child's body, to assess compliance with the passport age of physical and psychomotor development of children; to determine body weight and height, body mass index of a child of

10.	PC-8	Able to: make a	PC-7.1 Performs	and clinical course of diseases in young children	about the duration of natural, mixed and artificial feeding receive informatio n about complaints , the timing of the disease, the timing of the first and repeated treatment, conducted therapy analyze the	various ages, to assess physical and psychomotor development of children
		differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD)	early diagnosis of childhood diseases of internal organs PC-7.2 Establishes a diagnosis taking into account the current	pathogenes is and pathomorp hology, clinical aspect, differential diagnosis, clinical features, complicati ons and outcomes of child's diseases; methods of laboratory and instrument al examinatio ns for assessing the state of health, medical indications for conducting	results of the patient's examinatio n, if necessary, justify and plan the scope of additional examinatio ns; interpret the results of collecting informatio n about the patient's disease; interpret the data obtained during the laboratory examinatio n of the patient; interpret	diagnosis according to the ICD

medical care and tointo account theesforprovidingevaluatethestandardsmedicalmedicaleffectivenessandof medical carecare,care,	11. PC-9	Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non- drug treatment taking into account the diagnosis, age and clinical picture in accordance with current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of	clinical picture of the disease, the presence of complications, concomitant pathology, in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of	examinatio ns, rules for interpretin g their results; ICD modern methods of using medicine s, medical devices and therapeut ic nutrition in diseases and condition s of the patient in accordan ce with the current procedur	the data obtained during the instrument al examinatio n of the patient; interpret the data obtained during consultatio ns of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases of internal organs from other diseases draw up a treatment plan for the disease and the patient's condition taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for	Methods of analysis of evaluation of safety and effectiveness of pharmacothe rapy
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	and clinical picture) on the	provision
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		tions		
		caused		
		by its use		

4. Volume of the academic discipline and types of academic work Total labor intensity of the discipline is 3 CU (108 AH)

Type of educational work	Labor intensity		Labor intensity (AH) in	
	volume in	volume in		semesters
	credit	academic	V	
	units	hours		

			(CU)	(AH)	
Classroom work, including			3	108	108
Lectures (L)			5	14	100
Laboratory practice	um (LP)*				
Practicals (P)				52	52
Seminars (S)					
Student's individual work (SIW)				42	42
Mid-term assessment					
credit/exam (specify the type)					
TOTAL LABOR INTENSITY	volume academic (AH)	in hours		108	108
	volume in units (CU)	credit	3	3	3

5. Sections of the academic discipline and competencies that are formed

	5. Sections of the academic discipline and competencies that are formed					
N⁰	Competence code	Section name				
5 1	competence code	of the discipline				
1.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	Nutrition of infants of the first year of life (breastfeeding, artificial). The benefits of breastfeeding. The composition of maternal milk. 10 steps of successful breastfeeding. Recommendations for breastfeeding support. Signs of successful breastfeeding. Difficulties on the part of the mother and child during breastfeeding, methods of their correction. Artificial feeding. Types of infant's formulas and principles of their purpose. Complementary food. Types of complementary foods. The principles of the appointment of complementary foods. Preparation of a diet for children of the first year of life who are on various types of feeding. Physical development of infants of the first year of life. Mass-growth indicators of infants of the first year of life are normal and pathological. Parametric and nonparametric methods of assessing physical development. Factors affecting the physical development of children. Psychomotor development of children of the 1st year of life. Developmental milestones.				
2.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	A newborn baby. Morphological and functional features of organs and systems of the newborn. Features of examination of the newborn in the delivery room and after discharge from the maternity hospital. The Apgar scale. Transitional states of the newborn. Principles of newborn care. Pathological conditions in the neonatal period. Asphyxia of a newborn. Clinical and laboratory diagnostic criteria. Principles of resuscitation. Perinatal CNS lesion. Clinical and laboratory criteria. Birth trauma. Reasons. Classification. Diagnostic criteria. Principles of correction. Jaundice of newborns. Reasons. Differential diagnosis. Hemolytic disease of the newborn. Etiopathogenesis. Clinical and laboratory diagnostic criteria. Principles of treatment.				
3.	UC – 1, UC – 4, UC- 5					

r	1	
	GPC – 4, GPC –	the child's body. Pathogenesis of rickets. Classification. Clinical options.
	5, GPC- 7, GPC-	Criteria for laboratory and instrumental diagnostics. Changes in bones in
	10	rickets. (Ro-grams). Prevention and treatment of rickets in children.
	PC - 1, PC - 3, PC	Iron deficiency anemia. Classification of anemia. Criteria for the diagnosis
	- 8, PC - 9	of iron deficiency. Diet therapy. Principles of treatment and prevention.
		Atopic dermatitis. Etiology. Diagnostic criteria. Principles of therapy.
		Morphological and functional features of the cardiovascular system in
		children. Features of fetal and newborn blood circulation. Physical
		methods of cardiovascular system examination.
	UC – 1, UC – 4,	Congenital heart defects. Risk factors. Classification.
	UC- 5	CHD with left-to-right shunt ('pale')– VSD,ASD,PDA.
	GPC – 4, GPC –	
4.	5, GPC- 7, GPC-	Defects with right-left shunting ("blue"): tetralogy of Fallot, hypoplasia of
	10	the left heart syndrome, transposition of great vessels, Eisenmenger
	PC - 1, PC - 3, PC	syndrome.
	-8, PC - 9	Features of hemodynamics. Clinical and Diagnostic criteria.
	-6, FC - 9	Complications. Principles of therapy.
		Carditis in children. Etiology. Pathogenesis. Classification. Diagnostic
		criteria. Differential diagnosis. Treatment. Prevention
		Morphological and functional features of the bronchopulmonary system in
	UC – 1, UC – 4,	children. Physical methods of examination of the bronchopulmonary
	UC- 5	
	GPC – 4, GPC –	system.
5.	5, GPC- 7, GPC-	Pneumonia in children. Definition and classification. Age-depended
	10	Etiology. Pathogenesis. Clinical and diagnostic's criteria. Differential
	PC - 1, PC - 3, PC	diagnosis. Differentiated choice of antibacterial therapy.
		Bronchoobstructive syndrome. Clinical and diagnostic criteria. Principles
	- 8, PC - 9	of emergency care.
		Morphological and functional features of the hematopoietic system in
	UC – 1, UC – 4,	children. Indicators of white and red blood are normal and depending on
	UC- 5	age.
	GPC – 4, GPC –	Pathology of the blood system in children: Hemolytic anemia (hereditary
6	5, GPC- 7, GPC-	
6.		spherocytosis), hemoglobinopathies (sickle cell anemia, thalassemia).
	10	Hemorrhagic syndromes in pediatrics: Coagulopathy (hemophilia).
	PC - 1, $PC - 3$, PC	5 1
	- 8, PC - 9	Etiology. Pathogenesis. Clinic. Diagnostics. Principles of therapy.
		Features of dental procedures for hemorrhagic syndromes
	UC – 1, UC – 4,	Functional disorders of the gastrointestinal tract in young children.
	UC- 5	Regurgitation and vomiting syndrome. Intestinal colic. Etiology.
	GPC – 4, GPC –	Diagnostics. Treatment. Diet therapy.
7.	5, GPC- 7, GPC-	Acid-dependent diseases in children: Chronic gastroduodenitis, Peptic and
/.	10	duodenal ulcer. GERD. Clinical and diagnostic criteria. Principles of
		•
	PC - 1, $PC - 3$, PC	therapy.
	- 8, PC - 9	Features of the oral mucosa in diseases of the gastrointestinal tract
	UC – 1, UC – 4,	
	UC- 5	Uningent traget infactions agute revelangementation agute exectition. Eticlogy
8.	GPC – 4, GPC –	Urinary tract infection: acute pyelonephritis, acute cystitis. Etiology.
	5, GPC- 7, GPC-	Clinical and diagnostic criteria. Differential diagnosis. Treatment.
	10	Glomerulonephritis in children. An approach to the diagnosis of hematuria
	PC - 1, $PC - 3$, PC	and proteinuria in children.
	-8, PC - 9	
	UC - 1, UC - 4,	Acute intestinal infections (AII) in children. Classification. Features of the
9.	UC- 5	clinic and conditions associated with AII. Differential diagnosis.
1	GPC – 4. GPC –	Complications (exicosis with toxicosis). Types and severity of

	5, GPC- 7, GPC- 10	dehydration. Principles of oral and parenteral rehydration. Features of diet therapy for AII.
	PC – 1, PC – 3, PC	15
	- 8, PC - 9	
	UC – 1, UC – 4,	
	UC- 5	Vaccination of infectious diseases in children. Concepts of active and
	GPC – 4, GPC –	passive immunization. Types of vaccines. Basic principles of vaccination.
10.	5, GPC- 7, GPC-	Vaccination calendar in different countries. Postvaccinal reactions and
	10	complications. Anaphylactic shock. Clinic. Emergency assistance.
	PC - 1, $PC - 3$, PC	Final lesson.
	- 8, PC - 9	