

**Summary of the working program of the academic discipline**

**«Pediatric dentistry»**

General Educational Program of higher education (specialist) for speciality

31.05.03. "Dentistry"

**Department: Pediatric dentistry**

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

**The aim of the discipline:** participate in the formation of competencies UC-1, GPC-1, GPC-2, GPC-6, GPC-8, GPC-9, GPC-11, PC-1, PC-2, PC-5, PC-6, PC-8, PC-9, PC-12.

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

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

**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

No. n/a	Competence code	The content of the competence (or part of it)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1	Ability to think abstractly, analyse, synthesise.	UC-1 . Is able to critically analyse problematic situations using a systematic approach, to develop a strategy of action	Basic principles and algorithms for analysing and synthesising information in the professional medical activity of the paediatric dentist	Analyse the situation and systematise the information on each clinical case in paediatric dentistry	clinical thinking, synthesis of findings and situation analysis depending on the specific clinical case in paediatric dentistry
2.	PC-1	Ability to diagnose dental diseases and pathological conditions of patients	PC-1. Ability and readiness to implement a set of measures aimed at preservation and promotion of health and including the formation of a healthy lifestyle of the patient (their relatives/legal	The basics of preventive measures for the formation of dental health in children and adolescents, the influence of hereditary factors and	Lectures, talks, discussions on the factors affecting the dental health of children and adults, the causes of major dental diseases among	methods of dental education, auditory, speech and illustrative motivation to promote the dental health of children and their

			representatives). Prevention of the emergence and/or spread of dental diseases, their early diagnosis, identification of causes and conditions of emergence and development, as well as prevention.	environmental factors on the The influence of hereditary factors and environmental factors on the occurrence of major dental diseases among the child population.	children and adolescents, and measures to prevent dental diseases in the family and in society.	parents.
3.	PC-2	Ability to carry out measures to prevent dental diseases	PC-2 . Ability and readiness to carry out preventive medical examinations, medical check-ups for different categories of citizens and to carry out medical check-ups for patients with dental pathologies	The basics of planning and carrying out preventive medical check-ups, check-ups and the implementation of follow-up care for children and adolescents with dental pathology.	Conduct preventive medical check-ups and follow-up care for children and adolescents with dental diseases.	methods for preventive dental check-ups of the maxillofacial region in children and adolescents of different ages and methods for the follow-up of children and adolescents with different nosological forms of dental diseases.
4.	PC-5	Application of the basic principles of the organisation of dental care in medical institutions and their structural subdivisions.	PC-5 . Ability and readiness to apply socio-hygienic techniques to collect and medico-statistical indicators of dental morbidity, quality indicators of dental care delivery.	Rules for the preparation and maintenance of medical records, including in the form of an electronic document, in medical institutions with a dental profile. Rules for	Draw up a work plan and report on the work. Complete medical records, including electronic records, and monitor the quality of the records. Analyse the medical and	Drawing up a work plan and a report on their work. Keeping medical records, including in the form of an electronic document. Supervise the performance of job duties

				<p>working in medical information systems and the information and telecommunication network "Internet". The duties of medical staff in dental health care institutions. The organisation, equipment and facilities of dental surgeries, departments and outpatient clinics. Health, safety and fire safety requirements, emergency procedures.</p>	<p>statistical indicators for the incidence of dental disease. Use health information systems and the Internet in their work. Supervise the performance of the duties of the medical staff on duty. Use patient personal data and patient confidentiality information in their work.</p>	<p>by medical staff on duty. The use of health information systems and the Internet. The use of personal information about patients and medical secrets in their work.</p>
5.	PC-6	Diagnosis of dental diseases and pathological conditions of patients.	<p>PC-6. Ability to identify in patients the main pathological conditions, symptoms, syndromes of dental diseases, nosological forms according to the International Statistical Classification of Diseases and Related Health Problems, X</p>	<p>Pathological physiology and pathological anatomy, clinic, diagnosis and differential diagnosis, nosological forms of the main dental diseases in children and adolescents according to ICD-10.</p>	<p>Identify in patients the main pathological conditions, symptoms, syndromes and nosological forms of dental diseases in children and adolescents.</p>	<p>methods The definition of pathological conditions, symptoms and syndromes of dental diseases and their nosological forms in children and adolescents.</p>
6.	PC-8	Conducting a medical examination	<p>PC-8 . Willingness to assess temporary disability, to participate in</p>	<p>The procedure for issuing certificates of incapacity for work. Medical</p>	<p>Identify signs of temporary care for a child with a dental disease.</p>	<p>Conducting an assessment of temporary incapacity to</p>

			<p>medical and social expert assessment, to establish the biological death of a person</p>	<p>indications for referral for medical and social expert assessment. Requirements for medical records.</p>	<p>Prepare medical documentation for referral of children with dental conditions to the federal state medical and social expert assessment institutions.</p>	<p>work to care for a sick child suffering from a dental disease. The registration of the necessary medical documentation for medical and social expert assessment in the federal state medical and social expert assessment institutions. Referral of children and adolescents with dental diseases for medical and social expertise. Issue certificates of incapacity for work, including for persons caring for a sick family member.</p>
7.	PC-9	Treating patients with dental problems	<p>PC-9. Willingness to determine the need for natural healing factors, medicines, non-pharmacological therapy and other methods in patients with maxillofacial diseases in need of medical rehabilitation and</p>	<p>Indications and contraindications for the use of natural healing factors, drugs, non-medicinal therapy and other methods in children and adolescents</p>	<p>Identify indications and contraindications for the use of natural healing factors, medication, non-medicinal therapy and other methods in patients</p>	<p>Has practical experience: determining indications and contraindications for the use of natural healing factors, medicines, non-</p>

			sanatorium treatment	with maxillofacial area diseases in need of medical rehabilitation and spa treatment; effectiveness and safety of non-medicinal therapy; specifics of interaction between methods of non-medicinal therapy in patients with maxillofacial area diseases in need of medical rehabilitation and spa treatment; an algorithm for carrying out physiotherapy procedures.	with maxillofacial diseases in need of medical rehabilitation and spa treatment; evaluate the effectiveness and safety of non-medicinal therapy; analyse the features of interaction between methods of non-medicinal therapy in patients with maxillofacial diseases in need of medical rehabilitation and spa treatment	medicinal therapy and other methods in children and adolescents with maxillofacial diseases in need of medical rehabilitation and sanatorium treatment; evaluation of effectiveness and safety of non-medicinal therapy; analysis of the interaction features of methods of non-medicinal therapy in patients with maxillofacial diseases in need of medical rehabilitation and sanatorium treatment
8.	PC-12	Participate in research and application in health and medical sciences.	PC-12. Willingness to participate in research, analysis and public presentation of medical information based on evidence-based medicine and to participate in the implementation of new methods and techniques aimed at	Basics of evidence-based medicine; main sources of evidence-based medical information; ways and forms of public presentation of	Search for medical information based on evidence-based medicine; interpret data from scientific publications; critically appraise	Has practical experience: Developing algorithms for the examination and treatment of adults and children with dental diseases

			protecting public health and reducing dental morbidity.	medical information; basic principles of medical research.	modern methods of diagnosis, prevention and treatment of diseases from the perspective of evidence-based medicine; argue for your choice of methods of diagnosis, prevention and treatment of dental diseases; prepare a presentation for public presentation of medical information, results of scientific research.	according to the principles of evidence-based medicine; searching for and interpreting medical information based on evidence-based medicine; public presentation of medical information based on evidence-based medicine; partial participation in a scientific study.
10.	GPC-2	Using the ethical and legal foundations of professional practice	GPC-2 . Ability to analyse their own performance to prevent professional errors	The procedure for the provision of medical care, clinical guidelines, taking into account the standards of medical care; the methodology for analysing the results of their own activities.	Analyse the results of the examination and treatment of patients with dental diseases; draw up an action plan to prevent professional errors based on the analysis of your own performance.	Participation in a clinical (clinical-anatomical) conference on professional errors
11.	GPC-1	Using the ethical and legal foundations of professional practice	GPC-1. Ability and readiness to implement ethical and deontological principles in professional	the basic principles of ethics and deontology of medical practice,	interact with children and young people of different ages, and interact	medical deontological skills in communicating with fellow

12.	GPC-6	Willingness to diagnose and treat diseases of the maxillofacial region in children and adolescents.	<p>activity.</p> <p>GPC-6. Capable of examining a patient in order to establish a diagnosis in order to solve professional problems</p>	<p>adapted to the interaction with the team, children and their parents in pediatric dentistry.</p> <p>Knows how to collect the anamnesis of life and diseases, complaints from children and adults (their legal representatives); methods of examination and physical examination; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental tests to assess the state of health, medical indications for the tests, rules of interpretation of their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring medical care in emergency</p>	<p>with the parents of children in an ethical and deontological manner;</p> <p>Collect complaints, life and medical history in children and adults (their legal representatives), identify risk factors and causes of diseases; apply examination and physical examination techniques in children and adults; interpret examination and physical examination results in children and adults; diagnose the most common pathologies in children and adults; identify risk factors for cancer diseases; formulate a preliminary diagnosis, plan laboratory, instrumental and additional</p>	<p>patients and nursing staff.</p> <p>Has practical experience in: collecting complaints, life and disease history from children and adults, (their legal representatives), identifying risk factors and causes of diseases; examination and physical examination of children and adults; diagnosis of the most common diseases in children and adults; identifying risk factors for major cancers; formulating a preliminary diagnosis, making a plan for instrumental, laboratory, additional investigations, consultations with</p>
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13	GPC-8	Applying the fundamentals of fundamental and scientific knowledge	GPC-8 . Is able to use basic physico-chemical, mathematical and natural science concepts and methods to solve professional problems	Basic physico-chemical, mathematical and natural science concepts and methods used in medicine	Interpret data from basic physico-chemical, mathematical and natural science research methods in solving professional problems	specialists; referring patients to specialists Has practical experience of applying basic physico-chemical, mathematical and natural science research methods to solve professional problems
14.	GPC-9	Applying the fundamentals of fundamental and scientific knowledge	GPC-9. Ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems.	An algorithm for a general clinical examination and laboratory and instrumental methods of investigation in norm and pathology in children and adolescents to assess morphofunctional, physiological conditions and pathological processes.	perform a general clinical examination, write up a medical history and interpret the results of laboratory and instrumental examinations.	methods of carrying out a general clinical examination, completing a medical history, methods of assessing the results of laboratory and instrumental examinations
15.	GPC-11	Willingness to organise and manage	GPC-11. Ability to implement the principles of quality management in professional activities	Basic concepts of the quality management system of a medical organisation; requirements for ensuring internal control of the quality and safety of	Carry out analyse the quality of care provided to dental patients; ensure internal control of the quality and safety of medical activity; organise the	Has practical experience in: carrying out internal quality assurance work on dental patient care and medical safety



				medical practice.	work and supervise the performance of the job duties of the medical staff on hand.	
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#### 4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 13 CU (36AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units (CU)	volume in academic hours (AH)	7	8	9	10
Classroom work, including						
Lectures (L) DOT and EOC	1,6	58	10	16	18	14
Seminars (S) and Practical training using the DOT and E-Learning Technology (PST)	5,7	206	34	38	82	52
Student's individual work (SIW)	4,7	168	28	36	62	42
Mid-term assessment credit/exam ( <i>specify the type</i> )	1	36			exam	GIA
					18	18
<b>TOTAL LABOR INTENSITY</b>	<b>13</b>	<b>504</b>	<b>72</b>	<b>90</b>	<b>180</b>	<b>126</b>

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

№	Competence code	Name of discipline section	Section content in didactic units
1.	UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12	Prevention of dental caries; non-carious dental hard tissue damage, periodontal disease and oral mucosa	Prevention of major dental diseases in children and adolescents, forms and methods of prevention. Etiology, pathogenesis, pathological anatomy, clinic, diagnosis, differential diagnosis, methods of treatment and prevention of caries; pulpitis, periodontitis, non-carious dental hard tissue lesions, periodontal disease and oral mucosa. The preparation of medical records.
2.	UC-1 GPC-1	Diagnosis of caries; pulpitis, periodontitis, non-carious dental	Etiology, pathogenesis, pathological anatomy, clinic, diagnosis, differential diagnosis, methods of

3.	<p>GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12 UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12 UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12</p>	<p>hard tissue lesions, periodontal disease and oral mucosa</p> <p>Treatment methods for dental hard tissue diseases in patients of different ages</p> <p>Endodontic treatment of pulp and periodontal disease in patients of different ages</p>	<p>treatment and prevention of caries; pulpitis, periodontitis, non-carious dental hard tissue lesions, periodontal disease and oral mucosa. The preparation of medical records.</p> <p>Etiology, pathogenesis, pathological anatomy, clinic, diagnosis, differential diagnosis, methods of treatment and prevention of caries; pulpitis, periodontitis, non-carious dental hard tissue lesions. Registration of medical documentation.</p> <p>Etiology, pathogenesis, pathological anatomy, clinic, diagnosis, differential diagnosis, methods of treatment and prevention of pulpitis, periodontitis. Registration of medical documentation.</p>
5.	<p>UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6</p>	<p>Treatment of periodontal disease in patients of different ages</p>	<p>Etiology, pathogenesis, pathological anatomy, clinic, diagnosis, differential diagnosis, methods of treatment and prevention of periodontal disease. Registration of medical documentation.</p>

6.	PC-8 PC-9 PC-12 UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12	Treatment of typical oral mucosal diseases in patients of different ages	Etiology, pathogenesis, pathological anatomy, clinic, diagnosis, differential diagnosis, methods of treatment and prevention of diseases of the SOPR and lips in children and adolescents. Registration of medical documentation.
7.	UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12	Anaesthesia and resuscitation in paediatric surgical dentistry	Indications and contraindications for general and local anaesthesia in surgical procedures in paediatric dental surgery. The value of premedication. Types of local anesthesia, peculiarities of its implementation in children. Emergency conditions in the dental polyclinic.
8.	UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12	Removal of temporary and permanent teeth in children.	Tooth extraction surgery. Indications for removal of temporary and permanent teeth in children. Features of the operation of temporary tooth extraction. Complications during and after surgery, their prevention and treatment. Registration of medical documentation.
9.	UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9	Clinic and treatment of inflammatory diseases of the maxillofacial region in children.	Features of odontogenic inflammatory processes in childhood. Inflammatory processes of the soft tissues of the face in children. Lymphadenitis. Abscess, phlegmon. Periostitis jawbones. Osteomyelitis of the jaw bones in children. Hematogenous osteomyelitis in newborns and

10.	<p>GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12 UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12</p>	<p>Salivary gland diseases in children with inflammatory genesis</p>	<p>infants. Clinic, diagnosis, differential diagnosis, treatment in children of different ages. Registration of medical documentation.</p> <p>Acute mumps in newborns, acute epidemic mumps, chronic parenchymal mumps in children, salivary mumps disease. Etiology, pathogenesis of diseases. Clinic, diagnosis, treatment, outcomes. Registration of medical records.</p>
11.	<p>UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12</p>	<p>Temporomandibular joint disorders in children and adolescents</p>	<p>Primary bone injuries and diseases of the temporomandibular joint. Etiology, pathogenesis, clinic, diagnosis, treatment methods, age-related indications. Aims and objectives of orthodontic treatment, prevention of osteoarthritis and ankylosis. Functional diseases of temporomandibular joint in childhood and adolescence. Special additional methods of examination. Diagnosis, treatment, prevention. Registration of medical documentation.</p>
12.	<p>UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12</p>	<p>Injury to soft tissues of the face, organs, oral mucosa, teeth, jaws</p>	<p>Treatment of dislocations and tooth fractures in children. Facial bone injuries in children. Contusions and fractures of facial bones in children. Green branch type fractures, subcostal fractures. Methods of fixation in childhood. Complications and their prevention.</p> <p>Etiology of soft tissue injuries of the mouth and face in children. Burns and frostbites. Clinic, treatment, outcomes. General indications for plastic surgery in childhood. Registration of medical documentation.</p>

13.	UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12	Tumours and tumour-like processes of the facial soft tissue, organs and oral mucosa. Tumours and tumour-like processes of the facial bones in children	Benign and malignant soft tissue and oral and facial tumours in children. Facial bone tumours - benign and malignant. Classification, clinic, diagnosis, differential diagnosis, treatment. Tactics of surgical treatment of neoplasms in children. Conservative methods of treatment. Principles of oncologic alertness. Comprehensive rehabilitation of children with neoplasms. Registration of medical documentation.
14.	UC-1 GPC-1 GPC-2 GPC-6 GPC-8 GPC-9 GPC-11 PC-1 PC-2 PC-5 PC-6 PC-8 PC-9 PC-12	Congenital and hereditary diseases of the face and neck, jaw and facial bones, oral mucosa	Congenital clefts of the face. Medical genetic counseling of patients and their relatives as a method of prevention of congenital malformations. Congenital syndromes with involvement of the maxillofacial region. Congenital cysts and fistulas of maxillofacial region and neck. Age indication for surgical treatment. Dissemination of children with congenital cleft lip and palate. Registration of medical documentation.