

Summary to the work program of the discipline

"PROPAEDEUTICS AND PREVENTION OF DENTAL DISEASES"

the main professional educational program of higher education (specialty) specialty 31.05.03 "Dentistry"

1. The purpose of mastering the discipline:

-teaching students the basics of medical deontology, general principles of diagnosis; semiotics of diseases of organs and tissues of the oral cavity, professional initial manual skills of a general practice dentist, which is the basis for mastering clinical disciplines.

-training of students in modern methods and means of prevention of dental diseases for carrying out preventive measures in practice among various contingents of the population.

2. . Position of the academic discipline in the structure of the General Education Program of Higher Education (GEP HE) of the organization.

2.1. The Discipline refers to the core part of Block 1 of GEP HE.

3. Requirements for the results of mastering the discipline program (module) on the formation of competencies

The study of the discipline is aimed at the formation of the following universal (UC), general professional (GPC) and professional (PC) competencies among students:

п/ №	Competence code	The content of the competence (or part of it)	Code and name of the competence achievement indicator	As a result of studying the discipline , students should:		
				To know	To Be Able	To Own
1	UC -1	He is able to carry out a critical analysis of problematic situations based on a systematic approach, to develop a strategy of actions	IUK 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUK 1.2 is able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience IUK 1.3 Has practical experience: research of the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems IUK 4.1 Knows: the basics of oral and written communication in Russian and foreign	1. norms of the culture of thinking, the basics of logical thinking; 2. understand the social significance of your future profession; 3. basic principles of critical analysis	1. to form a systematic approach to the analysis of medical information, based on the comprehensive principles of evidence-based medicine; 2. be able to adequately perceive information, logically, correctly, argumentatively and clearly build oral and written speech, 3. critically evaluate their advantages and disadvantages, analyze socially significant problems;	- skills of presenting an independent point of view, analysis and logical thinking, public speech, moral and ethical argumentation, conducting discussions; - principles of medical deontology and medical ethics; skills of informing patients of various age groups and their relatives and loved ones in accordance with the requirements of the rules of "informed consent"

			<p>languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies</p> <p>IUK 4.2 Can: express your thoughts in Russian and a foreign language in business communication</p> <p>Russian Russian and foreign languages, related to professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages. IUK 4.3 Has practical experience in: writing texts in Russian and foreign languages related to professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages.</p>			
2	UC -4.		<p>Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction</p>	<p>1. modern means of information and communication technologies</p> <p>2 basics of oral and written speech</p> <p>3 lexical minimum of general and terminological character; special dictionary and reference literature and rules for working with it</p>	<p>to express their point of view, to conduct a discussion in Russian and a foreign language</p> <p>2 use communication in oral and written forms to obtain professionally relevant information</p>	<p>skills of presenting an independent point of view, analysis and logical thinking, public speech, moral and ethical argumentation, discussion</p> <p>2. experience in translating medical texts from a foreign language into Russian</p>
3	GPC -1	<p>Able to implement moral and legal norms, ethical and deontological principles in professional activity</p>	<p>IGPC 1.1 Knows: fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity</p> <p>IGPC 1.2 is able to: apply ethical norms and principles of behavior of a medical</p>	<p>1. the main national and international ethical documents;</p> <p>2 ethical documents; principles of ethics and deontology in all spheres of medical activity.</p>	<p>1 apply the principles of ethics and deontology in their professional activities</p>	<p>1 the skills of ethical behavior and the principles of deontology in solving professional tasks within the framework of the discipline being studied</p>

			<p>worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)</p> <p>IGPC 1.3 Has practical experience: solving standard tasks of professional activity on the basis of ethical norms and deontological principles in interaction with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity</p>			
4	GPC -4.	Is able to carry out and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	<p>IGPC 4.1 Knows: the main criteria of a healthy lifestyle and methods of its formation; socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic hygienic measures of a health-improving nature that promote health promotion and prevention the occurrence of the most common diseases; the basics of preventive medicine; stages of planning and implementation of communal programs for the prevention of the most common diseases</p> <p>IGPC 4.2 is able to: conduct sanitary and hygienic education among children and adults (their legal representatives) and medical workers in</p>	<ol style="list-style-type: none"> 1. regulatory documents on sterilization and processing of instruments; sanitary and epidemiological requirements; 2. rules for the use of personal protective equipment; 3 Etiology, pathogenesis, clinic and prevention of common diseases of the maxillofacial region; 4. principles of dispensary observation in various categories of patients; 5. fundamentals of preventive medicine aimed at improving the health of the population; 6. clinical picture, symptoms of caries and periodontal diseases in adults and children; 7. methods of treatment and 	<ol style="list-style-type: none"> 1. carry out preventive measures to prevent the occurrence of dental diseases, including caries and periodontal diseases, as well as dental anomalies; 2. carry out preventive examinations of various categories of citizens; 3. identify and eliminate risk factors for caries and periodontal diseases 	<ol style="list-style-type: none"> 1. methods of primary prevention of caries and periodontal diseases in any age group; 2. methods of conducting preventive examinations of the population; 3. methods of registering the condition of hard tissues of teeth, periodontal, oral hygiene; 4. selection of dental materials for the prevention of caries and periodontal diseases; 5. selection of medicines for the prevention of caries and periodontal diseases;

		<p>order to form a healthy lifestyle and prevent the most common diseases; conduct sanitary and educational work among children and adults in order to form a healthy lifestyle and prevent the most common diseases; form children and adults (their legal representatives) behavior aimed at preserving and improving the level of somatic health; develop and implement programs for the formation of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to patients taking into account risk factors for prevention and early detection diseases, including cancer; to carry out the selection and appointment of medicines and non-drug methods for the prevention of the most common diseases</p> <p>IG3C 4.3 Has practical experience in: promoting a healthy lifestyle and preventing the most common diseases; conducting sanitary and educational work among children and adults; forming behavior in children and adults (their legal representatives) aimed at preserving and improving the level of somatic health; forming healthy lifestyle programs,</p>	<p>prevention of caries and periodontal diseases; 8. conditions requiring emergency and urgent medical care</p>		
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			<p>including programs to reduce alcohol and tobacco consumption, prevention and control of non-medical use of narcotic drugs and psychotropic substances;</p> <p>development of a plan of preventive measures and implementation of methods of group and individual prevention of the most common diseases; prescribing preventive measures for children and adults, taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; selection and prescription of medicines and non-drug methods for the prevention of the most common diseases</p>			
5	GPC -8	<p>Able to use basic physico-chemical, mathematical and natural science concepts and methods in solving professional problems</p>	<p>GPC 8.1 Knows: basic physico-chemical, mathematical and natural science concepts and methods that are used in medicine</p> <p>And GC 8.2 is able to: interpret the data of the basic physico-chemical, mathematical and natural science research methods in solving professional problems</p> <p>GPC 8.3 Has practical experience: the application of basic physico-chemical, mathematical and natural science research methods in solving professional problems</p>	<p>topographic anatomy of the head, maxillofacial region, structure of teeth;</p> <p>-embryology and histology of the maxillary region;</p> <p>-modern equipment, tools and materials used in dentistry;</p> <p>-physico-chemical properties of dental materials, indications for their use;</p> <p>-the main methods of therapeutic treatment of diseases of hard tissues of teeth (filling of carious cavities and root canals);</p> <p>-the main methods of orthopedic treatment of pathology of hard</p>	<p>-perform dental manipulations on the phantom - caries treatment, restoration of the anatomical shape of teeth;</p> <p>-to carry out the stages of endodontic treatment on the phantom in various groups of teeth;</p> <p>-perform dental dissection for orthopedic structures on the phantom;</p> <p>-perform tooth extraction on the phantom</p> <p>-1.provide emergency and emergency medical care in case of sudden acute conditions that threaten the patient's life;</p> <p>2. determine the methods of administration,</p>	<p>-the method of selection of dental materials for the treatment of dental diseases;</p> <p>-modern methods of treatment of hard dental tissues allowed for use in medical practice;</p> <p>-methods of removal of various groups of teeth</p> <p>-methods of taking impressions and casting models</p> <p>-1. selection of the type of local anesthesia</p> <p>2. selection of medicines for the treatment of caries and its complications;</p> <p>3. assessment of possible side effects from taking medications</p> <p>by disinfection and antiseptic treatment of instruments and equipment in order to avoid infection</p>

				<p>tissues of teeth; -biomechanics of tooth extraction surgery -The main aspects of pain in dentistry. -groups of drugs used in practical dentistry, their pharmacodynamics, compatibility; -principles, indications, techniques and methods of anesthesia in dentistry; 4. conditions requiring emergency and urgent care</p>	<p>regimen and dose of medications; 3. perform various methods of local anesthesia of the maxillofacial area on the phantom</p>	<p>of the doctor and patient; -assessment of possible complications caused by the use of local anesthesia; --assessment of possible side effects from taking medications;</p>
6	GPC -9	<p>Able to assess morphofunctional states and pathological processes in the human body to solve professional problems</p>	<p>GPC-9.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems GPC 9.2 is able to: evaluate the basic morphofunctional data, physiological states and pathological processes in the human body GPC 9.3 Has practical experience: evaluation of basic morphofunctional data, physiological conditions and pathological processes in the human body when solving professional tasks</p>	<p>topographic anatomy of the head, maxillofacial region, features of blood supply, innervation, structure of teeth, embryogenesis, major disorders of embryogenesis; 2. normal functioning of the maxillary system and violation of its functions in case of malocclusion; 3. basic and additional methods of examination of a dental patient;</p>	<p>-to conduct an examination of a dental patient; -conduct a patient survey; diagnose dental deformities, anomalies of teeth and jaws; Analyze the results of the survey;</p>	<p>-Methods of primary and repeated examination of the patient; -to identify dental, facial anomalies in patients and the prerequisites for their development; diagnose caries and its complications;</p>
7	PC -2	<p>the ability and readiness to conduct preventive medical examinations, medical examination of various categories of citizens and the implementation of medical supervision of patients with stomatological pathology</p>	<p>IPC 2.1 Knows: Regulatory legal acts regulating the procedures for preventive medical examinations and medical examinations The main criteria of a healthy lifestyle and methods of its formation Socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, basic principles of their prevention Forms and methods of sanitary and hygienic</p>	<p>1. Etiology, pathogenesis, clinic and prevention of common diseases of the maxillofacial region; 2. principles of dispensary observation in various categories of patients; 3. fundamentals of preventive medicine aimed at improving the health of the population;</p>	<p>1. carry out preventive measures to prevent the occurrence of dental diseases, including caries and periodontal diseases, as well as dental anomalies; 2. carry out preventive examinations of various categories of citizens; 3. identify and eliminate risk factors for caries</p>	<p>1. methods of primary prevention of caries and periodontal diseases in any age group; 2. methods of conducting preventive examinations of the population; 3. methods of registering the condition of hard tissues of teeth, periodontal, oral hygiene; 4. selection of dental materials for</p>

		<p>education among patients (their legal representatives), medical workers</p> <p>Features of specific and non-specific prevention of dental diseases</p> <p>The main hygienic measures of a health-improving nature that promote health and prevent the occurrence of dental diseases</p> <p>Etiology, pathogenesis, prevention of dental diseases</p> <p>Fundamentals of preventive medicine</p> <p>Stages of planning and implementation of municipal programs for the prevention of dental diseases</p> <p>IPC 2.2 is able to:</p> <p>Conduct sanitary and hygienic education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent dental diseases</p> <p>To carry out sanitary and educational work among children and adults with dental diseases in order to form a healthy lifestyle and prevent dental diseases</p> <p>To form behavior in children and adults (their legal representatives) aimed at preserving and improving the level of somatic and dental health</p> <p>Develop and implement programs for the formation of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances</p> <p>Develop a plan of preventive measures and implement methods of group and individual prevention</p>	<p>4. clinical picture, symptoms of caries and periodontal diseases in adults and children;</p> <p>5. methods of treatment and prevention of caries and periodontal diseases;</p>	<p>and periodontal diseases;</p>	<p>the prevention of caries and periodontal diseases;</p> <p>5. selection of medicines for the prevention of caries and periodontal diseases;</p>
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		<p>of major stomatological diseases</p> <p>To carry out preventive medical dental examinations of the population</p> <p>Prescribe preventive measures to patients taking into account risk factors for the prevention and early detection of diseases, including cancer</p> <p>To carry out the selection and appointment of medicines and non-pharmacological methods for the prevention of dental diseases in children and adults</p> <p>To carry out dispensary supervision of children and adults with dental diseases</p> <p>IPC 2.3 Has practical experience in promoting a healthy lifestyle and preventing dental diseases</p> <p>Conducting sanitary and educational work among children and adults with dental diseases</p> <p>Formation of behavior in children and adults (their legal representatives) aimed at preserving and improving the level of somatic health</p> <p>Formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevention and control of non-medical use of narcotic drugs and psychotropic substances</p> <p>Development of a plan of preventive measures and implementation of methods of group and individual prevention of dental diseases</p> <p>Carrying out preventive medical dental examinations of the population taking into account age</p> <p>Prescribing preventive</p>			
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8	PC -10	<p>readiness for educational activities to eliminate risk factors for the development of dental diseases, prevention of dental diseases, to teach the population basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and strengthening of health.</p>	<p>IPC 10.1 Knows: Forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers</p> <p>Features of specific and non-specific prevention of dental diseases</p> <p>The main hygienic measures of a health-improving nature that promote health and prevent the occurrence of dental diseases</p> <p>Etiology, pathogenesis, prevention of dental diseases</p> <p>Fundamentals of preventive medicine</p> <p>Methods and forms of organization of education, techniques and techniques for attracting the population to training in hygienic measures of a health-improving nature</p> <p>Psychological and pedagogical bases and methods of application of technical means of training, information computer technologies,</p>	<p>1. the importance of basic and additional methods of examination of a dental patient;</p> <p>2. the main issues of normal and pathological physiology of the dental system, its relationship with the functional state of other body systems;</p> <p>3. functioning of the dental system and violation of its functions in malocclusion;</p> <p>4. medical indications and contraindications to the use of X-ray and other methods of examination;</p> <p>1. basic hygienic measures of a health-improving nature that contribute to the prevention of the occurrence of diseases;</p> <p>2. normal</p>	<p>1.register dental status data during preventive examination in patients of different age groups;</p> <p>2.conducting dental examination of patients of various age groups and identifying those in need of dental treatment;</p> <p>3. interpret the data of instrumental, additional and laboratory studies;</p> <p>4.identify anomalies of the oral mucosa, dental anomalies and deformities;</p> <p>1. Evaluate the physical development and functional state of the patient's body;</p> <p>2. timely identify bad habits in children;</p> <p>3. to teach patients of</p>	<p>1.Methods of collecting a complete medical history of the patient;</p> <p>2. identification of dental, facial anomalies, deformities and prerequisites for their development in patients;</p> <p>3. methods of detecting and predicting the caries-induced situation in the oral cavity;</p> <p>4. methods of detecting and predicting periodontal diseases in patients;</p> <p>5. analysis of the results of the examination and, if necessary, refer patients for additional research and consultation with other specialists;</p> <p>1.methods of conducting a complex of myogymnastic exercises for the</p>

		<p>electronic educational and information resources, distance educational technologies and e-learning, including biomedical technologies Educational technologies and methods of teaching patients and medical workers</p> <p>IPC 10.2 is able to: Plan, organize and carry out activities within the framework of sanitary and hygienic education among the population, training of patients and medical workers</p> <p>To carry out sanitary and educational work among children and adults with dental diseases in order to form a healthy lifestyle and prevent dental diseases</p> <p>To involve medical personnel in the planning and development of measures for sanitary and hygienic education among the population, training of patients and medical workers</p> <p>It is reasonable to use technical means of training, information computer technologies, electronic educational and information resources, distance educational technologies and e-learning, including telemedicine technologies</p> <p>To carry out an analysis of the measures taken for sanitary and hygienic education among the population</p> <p>IPC 10.3 Has practical experience in Planning, organizing and conducting events within the framework of sanitary and hygienic education among the population</p> <p>Planning, organizing and conducting</p>	<p>functioning of the maxillary system and violation of its functions in case of malocclusion;</p> <p>3. local and general caries factors;</p> <p>4. risk factors for periodontal diseases;</p> <p>1. the main criteria for a healthy lifestyle and its formation;</p> <p>2. socio-hygienic and medical aspects of alcoholism, drug addiction, and their prevention;</p> <p>3. Forms and methods of sanitary and hygienic education among various age groups;</p> <p>4. features of the organization and conduct of group prevention in kindergarten and school;</p> <p>5. the main risk factors in the occurrence of caries and periodontal diseases;</p>	<p>different age groups the methods of using individual oral hygiene products and items;</p> <p>4.individually select oral hygiene products and items depending on the age and condition of the patient's oral cavity;</p> <p>1. conduct conversations and lectures with various groups of the population on the prevention of the occurrence and development of dental diseases;</p> <p>2. explain the necessity and principles of eliminating caries-causing factors related to nutrition and personal hygiene of the oral cavity;</p> <p>3. to form positive behavior in patients aimed at maintaining and improving the level of health;</p>	<p>prevention of HFA;</p> <p>2.methods of planning and carrying out hygienic measures depending on the condition of periodontal tissues;</p> <p>3. by the method of controlled brushing of teeth;</p> <p>4. the ability to form a preventive dental care plan for the patient</p> <p>1. the methodology of dental education of the population on the occurrence and prevention of dental diseases;</p> <p>2. make plans for "health lessons", texts of conversations, memos, lectures on the prevention of dental diseases, taking into account the specifics of the trained contingent;</p> <p>3. to motivate patients to lead a healthy lifestyle and give up bad habits;</p>
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		training of patients and medical workers Promotion of a healthy lifestyle and prevention of dental diseases Formation of behavior in children and adults (their legal representatives) aimed at preserving and improving the level of dental health			
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4. . The scope of discipline and types of academic load

Type of educational work	Labor intensity		Labor intensity by semester (AH)				
	volume in credit units (ZE)	volume in academic hours (AH)	2	3	4	5	6
Classroom work, including	18	648	198	216	108	72	54
Lectures (L)	1,75	62	24	16	8	10	4
Laboratory workshops (LP)							
Practical training (PZ)	8,5	306	94	114	36	34	28
Seminars (C)							
Student's Independent work (SRS) Student's research work	6,75	244	80	86	28	28	22
Intermediate certification	1	36			36 ЭКЗАМЕН		зачет
TOTAL LABOR INTENSITY	18	648	198	216	108	72	54

5. Sections of the discipline and formed competencies

п/ №	Competence code	Name of the discipline section	The content of the section in didactic units
1.	UC – 1 GPC - 1	Dentistry. Introduction to the specialty. Examination of a dental patient. Medical documentation.	Organization of a dental clinic. The main methods of examination of a dental patient. Additional methods of examination. The technique of reading radiographs. Introduction to orthopedic dentistry. Goals and objectives of orthopedic dentistry. Rules for filling out the medical card of a dental patient.
2.	UC – 1 GPC - 9	Anatomy of teeth. Functional anatomy of teeth. Topographic and anatomical	. General anatomy of teeth. The timing of eruption of permanent teeth. 2. Histological structure, chemical composition and functions of the hard tissues of the tooth. The structure of the dentition. Dental arches, the shape of dental arches. The frontal group of teeth of the upper jaw. The frontal group of teeth of the lower jaw. Premolars and canines of the upper jaw. Premolars and canines of the lower jaw.

		structure of cavities of various groups of teeth.	Molars of the upper jaw. Molars of the lower jaw.
3.	UC – 4 GPC – 9 GPC - 8	Principles of preparation of carious cavities.	<p>1. Definition of caries. Classification of caries ICD. Classification of carious cavities according to Black. Indices of the intensity and spread of caries. Methods of treatment of dental caries.</p> <p>2. Principles and stages of preparation of carious cavities. Tools for the preparation of carious cavities. Conditions for painless dissection. Dissection of cavities of grades 1 and 6 by Black.</p> <p>3. Preparation of carious cavities of the 2nd class according to Black. Requirements for the preparation of cavities of class 2. Various approaches to the preparation of carious cavities of class 2. Dissection of a class 2 cavity on a phantom.</p> <p>4. Preparation of carious cavities of the 2nd class according to Black. Methodology for the formation of an additional platform. Preparation of a cavity of the MOD type</p> <p>5. Features of preparation of carious cavities of the 3rd and 5th grade according to Black. Requirements for the preparation of cavities of class 3 and 5. Options for the formation of cavities of class 3 and 5 according to Black.</p> <p>Formation of cavities of class 3 and 5.</p> <p>6. Features of the preparation of carious cavities of class 4 according to Black. Requirements for the preparation of cavities of class 4. Stages of preparation of carious cavities of class 4 in Black, tools. Options for the formation of cavities.</p> <p>Formation of a cavity of the 4th class.</p> <p>7. Features of preparation of teeth in the manufacture of veneers.</p>
4.	UC – 1 GPC – 9 GPC - 8	Filling of carious cavities.	<p>8. Classification of filling materials. Requirements for filling materials, their properties. Materials for medical pads and temporary dental fillings. Composition, properties, indications for use.</p> <p>9. Cements for permanent dental fillings (silicate, silico-phosphate). Composition, properties, indications for use.</p> <p>10. Glass ionomer cements. Classification, chemical properties, indications for use. The methodology of the work of the CIC.</p> <p>11. Amalgams and their substitutes. Classification, physico-chemical properties, indications for use. Features of the formation of a carious cavity for filling with amalgam. Methods of preparation and stages of filling of carious cavities with amalgam.</p> <p>12. Composite filling materials. Classification, composition, physico-chemical properties, indications for use.</p> <p>13. Enamel-dentine adhesive systems of various generations. The mechanism of formation of a hybrid zone.</p> <p>14. The stages of filling carious cavities with composite materials of chemical curing. Tools. Filling of cavities I, V, VI with chemical curing composites.</p> <p>15. The method of restoring the contact point when filling cavities of II, III, IV classes. Matrices and matrix holders. Interdental wedges. Filling of a class II cavity with chemical curing composites.</p> <p>16. Filling of cavities of class III and IV with chemical curing composites.</p> <p>17. Stages of filling of carious cavities with composite materials of light curing. Technique of directed polymerization. Photopolymerizers, their technical characteristics.</p> <p>Sealing of cavities of classes I and VI with light-curing composites.</p> <p>18. Compomers and keramers. Composition, properties, indications for use.</p> <p>19. Sealing of class II cavities with light-curing composites.</p> <p>20. Filling of carious cavities of class III with light-curing composites.</p> <p>21. Filling of carious cavities of class IV with light-curing composites.</p>

			<p>The technique of restoring the crown angle using opaque and enamel tones of composite material.</p> <p>22. The technique of finishing fillings from various filling materials. The use of finishing drills, polishing discs, strips, and other polishing systems.</p>
5.	UC – 1 GPC – 9 GPC - 8	Tooth extraction.	Tooth extraction operation. Indications and contraindications. Stages of the operation of tooth extraction on the upper jaw. Forceps and tools for removing teeth on the upper and lower jaw.
6.	UC – 1 GPC – 9 GPC - 8	Endodontics.	<p>1. Endodontics. Definition of the concepts "Endodont", "Morphofunctional complexes of endodont", "Endodontics". Topographic features of the structure of the tooth cavity in various groups of teeth.</p> <p>2. Devitalizing agents. Opening the tooth cavity and applying a devitalizing agent. Opening of the tooth cavity in carious and intact single-root and multi-root teeth.</p> <p>3. Endodontic tools. Classification, standardization. Working methods. Manual preparation of root canals: a standardized technique.</p> <p>4. The technique of expanding root canals "Step Back". Expansion of root canals of single-root teeth.</p> <p>5. The technique of expanding root canals "Step Back". Tools, the sequence of their application. Expansion of root canals of multi-root teeth.</p> <p>6. The technique of expanding the root canals "Crown Down".</p> <p>7. Antiseptic and therapeutic drugs in endodontics. Properties, indications for use. Medical treatment of root canals of teeth.</p> <p>8. Classification of filling materials for root canals. Indications for use. Filling of root canals of teeth with pastes</p> <p>9. Filling of root canals of gutta-percha teeth. The technique of lateral condensation.</p> <p>10. Filling of root canals of gutta-percha teeth. Sealing of channels with the "Termafil" obturator.</p> <p>11. Errors and complications in endodontic treatment. Closure of perforations. Root canal sealing. Tools.</p> <p>12. Features of dental restoration after endodontic treatment. Preparation of the root canal for the anchor pin.</p>
7.	UC – 1 GPC – 9 GPC - 8	Odontopreparation.	<p>Classification of prostheses, classification of artificial crowns. Principles of preparation of teeth for artificial crowns. Cutting and abrasive tools for preparing teeth for artificial crowns. Solid metal and combined artificial crowns. Indications and contraindications for the use of solid metal, plastic and combined artificial crowns. Clinical and laboratory stages of manufacturing. Stages of preparation of teeth for solid metal, Fixed bridges. Types of fixed bridges. Features of preparation of supporting teeth in the manufacture of bridge prostheses. Clinical and laboratory stages of manufacturing non-removable bridges. Preparation of teeth. Impression (impression) materials. Classification of impression materials, indications for use. Development of a technique for obtaining impressions on phantoms. Auxiliary materials. Modeling materials (waxes) – classification, properties, application. Modeling of the tooth crown and the intermediate part of the bridge prosthesis made of wax..</p>
8.	UC – 1 UC-4 GPC – 9 GPC - 8	Biomechanics of the chewing apparatus.	<p>1. The structure of the dentition. Dental arches, the shape of dental arches. The structure of the dentition. Occlusion and articulation. Types of occlusion. Bite. Types of bite.</p> <p>2. Structure and function of the temporomandibular joint. The main muscles that carry out the movement of the lower jaw</p> <p>3. Introduction to gnathology. Types of movements of the lower jaw. Types of occlusion. Methods of determination and fixation of central occlusion.</p> <p>Determination of the height of the lower part of the face</p>
9.	UC – 1 GPC - 8	Aseptics and antiseptics in	Aseptics and antiseptics in dentistry. Disinfection, pre-sterilization cleaning and sterilization of instruments. Rules for cleaning offices.

		dentistry.	
10.	UC – 4 GPC – 9 GPC - 8	Anesthesia in dentistry.	<p>1. Types of local anesthesia. Anesthetics. Mechanism of action. Instruments for injection anesthesia.</p> <p>2. Infiltration, intrapulpar and intraligmental anesthesia. Non-injection methods of anesthesia.</p> <p>3. Anesthesia on the upper jaw. Topography and innervation zones of the branches of the maxillary nerve. Infiltration and conduction anesthesia on the upper jaw.</p> <p>4. Anesthesia on the lower jaw. Topography and innervation zones of the branches of the mandibular nerve. Infiltration and conduction anesthesia on the lower jaw.</p>
11.	UC - 1 UC-4 PC 2	Introduction to the course of prevention Epidemiology of dental diseases	<p>The concept of the prevalence and intensity of dental diseases. Intensity indices, increase in caries intensity, reduction of caries growth.</p> <p>Indices of registration of the state of periodontal tissues. Levels of prevalence and intensity of caries and periodontal diseases according to WHO criteria.</p> <p>Goals, objectives, stages, methods, registration and analysis of the results of epidemiological dental examination of the population. The survey methodology and the WHO data registration map (1995).</p> <p>The importance of the results of epidemiological examination for the development and evaluation of the effectiveness of programs for the prevention of dental diseases.</p>
12.	UC - 1 GPC - 9 PC - 2	Examination of the patient in the preventive department of the polyclinic	<p>Equipment and equipment of the prevention room. Control of cross-infection at a dental appointment.</p> <p>The procedure and methods of examination of the patient: questioning, objective examination (external and intraoral examination, percussion, palpation, additional research methods). Medical card of a dental patient. Examination of the oral mucosa. The role of anomalies of the oral mucosa (bridles of the upper and lower lips, tongue, small vestibule of the oral cavity) in the occurrence and development of dental diseases. Violation of salivation. The role of hyposalivation and xerostomia in the development of oral diseases.</p> <p>Methods for assessing the condition of hard tissues of teeth: examination, probing, vital enamel staining, instrumental. Indices of the intensity of dental caries: KPU, kpu of teeth and surfaces. Graph-digital and international dental designation system.</p> <p>Methods of examination of periodontal tissues (examination, palpation, instrumental examination, radiography, etc.). Assessment of the condition of periodontal tissues using indices: CPITN, CPI, PMA, KPI.</p> <p>Identification of dental anomalies and risk factors for their occurrence.</p> <p>Determination of the hygienic condition of the oral cavity. Hygiene indices according to Fedorov - Volodkina, Green - Vermillion, oral hygiene Efficiency Index (RNR).</p>
13.	GPC-1 GPC – 4 GPC- 9 PC - 2	Oral hygiene. Hygienic education of the population	<p>Surface formations on teeth and dental deposits: cuticle, pellicle, plaque, tartar.</p> <p>Methods for detecting dental deposits.</p> <p>Individual oral hygiene. Oral hygiene products. Toothbrushes and the requirements for them. Classification, composition, properties of toothpastes. Purpose and methods of application of elixirs, floss, toothpicks, brushes, tongue brushes, chewing gums. Individual selection of hygiene products depending on the age and condition of the patient's oral cavity.</p> <p>Methods of brushing teeth. Features of teaching teeth cleaning to children of different ages and adults. Controlled brushing of teeth and its evaluation.</p> <p>Motivation of parents to care for the oral cavity of children from the moment of eruption of the first temporary teeth.</p> <p>Professional oral hygiene and its importance in the prevention of dental diseases. Methods and means of professional oral hygiene. Technique for removing mineralized dental deposits.</p> <p>Hygienic education and training of the population in oral hygiene is an</p>

			integral part of comprehensive programs for the prevention of dental diseases. Organization of "health lessons", hygiene lessons, conversations, lectures in organized children's and adult groups, women's consultations.
14.	UC – 1 UC-4 GPC - 9 PC - 2	Cariesogenicity of enamel. Cariesogenic situation in the oral cavity.	Structure and properties of enamel. Methods for assessing the caries resistance of enamel. Modern ideas about the mechanism of enamel de- and remineralization. Ways to increase the caries resistance of enamel. The concept of a cariesogenic situation in the oral cavity. The role of general and local caries factors, the mechanism of their action. The importance of plaque in the occurrence of a cariesogenic situation. The role of nutritional disorders (composition, consistency, increased consumption of carbohydrates, etc.) in the occurrence of caries. Composition and properties of oral fluid and its significance in enamel maturation, enamel de- and remineralization processes. Stefan's curve. The role of the lack of fluorides in drinking water and the environment in the development of caries in the population of the region. Assessment of the cariesogenic situation in the oral cavity. Ways to eliminate the cariesogenic situation.
15.	UC-1 GPC-8 GPC - 9 PC-2	Primary prevention of dental caries	General methods of caries prevention: healthy lifestyle, hardening, balanced nutrition, oral hygiene, dental education, oral sanitation, medical examination. Endogenous means of caries prevention: composition, properties, mechanism of action of drugs, indications, contraindications, effectiveness. Fluorine, its properties, sources of entry into the body, metabolism. Modern ideas about the mechanism of action of fluorides. Methods of systemic (endogenous) administration of fluorides into the body: fluoridation of drinking water, milk, salt, fluoride-containing tablets and drops. Indications, contraindications, dosages, methods of implementation, effectiveness of application, experience abroad and in Russia. Local (exogenous) means of fluoride prophylaxis: fluoride-containing varnishes, gels, solutions for rinsing and applications, toothpastes. The method of sealing fissures. Materials, indications, contraindications, methods, effectiveness. Detection of early forms of caries: examination, probing, vital staining of enamel, etc.
16.	GPC- 4 PC- 10	Medical examination of the population. Sanitation of the oral cavity. Prevention of complications of dental caries.	The concept of secondary prevention. Goals, objectives, organizational forms and methods of carrying out planned sanitation of the oral cavity, evaluation of its effectiveness. Medical examination as a method of improving the health of the population. Principles of medical examination of the population at the dentist. Population groups at increased risk of dental diseases. Evaluation of the effectiveness and content of medical examination of patients of different ages at the dentist.
17.	UC-1 PC - 10	Antenatal prevention of dental diseases	Antenatal prevention of dental diseases: elimination of occupational hazards, rational daily routine and nutrition of pregnant women, treatment of infectious diseases, control of toxicosis, sanitation of the oral cavity, dental education. The influence of the course of pregnancy on the formation of the dental system of the child. Prevention of dental diseases in pregnant women and dental education are the basis of dental health of young children.
18.	UC-1 PC - 10	Prevention of non-carious lesions of hard tissues of teeth	Toxicity of fluorine compounds. Optimal and potentially harmful doses of fluorides. Etiology, pathogenesis, classification, clinical picture and prevention of fluorosis. Etiology, pathogenesis, clinical picture of systemic and local hypoplasia. Antenatal and postnatal prevention of systemic hypoplasia.
19.	UC-1 GPC - 8	Prevention of periodontal	Classification of periodontal diseases. The mechanism of occurrence and development of inflammatory periodontal diseases. The role of local and

	PC – 10	tissue diseases	general risk factors in the occurrence of periodontal diseases. Methods and means of primary prevention of periodontal diseases. The importance of oral hygiene in the prevention of inflammatory periodontal diseases
20.	UC-1 PC – 10	Dental education	The purpose, methods, means and forms of dental education. Motivation of the population to maintain oral health. The content and features of dental education in women's clinics, healthy child rooms, kindergartens, schools, dental clinics. Personnel involved in the work. Methods of evaluating the effectiveness of dental education. Survey of the population