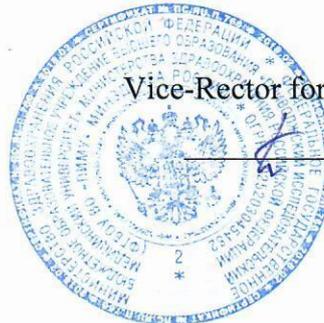


Federal State Budgetary Educational Institution of  
Higher Education  
"Privolzhsky Research Medical University"  
Ministry of Health of the Russian Federation



APPROVED  
Vice-Rector for Academic Affairs  
E.S. Bogomolova  
31 August 2021

### **WORKING PROGRAM**

Name of the academic discipline: **PROPADEUTICS AND PREVENTION OF DENTAL DISEASES**

Specialty: **31.05.03 DENTISTRY**

Qualification: **DENTIST**

Faculty: **INTERNATIONAL MEDICAL EDUCATION**

Department: **PROPADEUTIC DENTISTRY**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **648 academic hours**

Nizhny Novgorod  
2021

The work program had been developed in accordance with the FSES HE of the specialty 31.05.03 "DENTISTRY" approved by order of the Ministry of science and higher education of the Russian Federation No. 984 dated 12 august 2020.

Developers of the working program:

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Reviewers:

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2. Uspenskaya O.A. - Doctor of Medical Sciences, Associate Professor, Head of the Department of Therapeutic Dentistry, Federal State Budgetary Educational Institution of Higher Education "PRMU" of the Ministry of Health of Russia.

The program was reviewed and approved at the department meeting (protocol No. 1, date 30.08.2021)

Head of Department,  
Ph.D. of Medical Sciences, Associate of Professor Kochubeynik A.V.



(signature)

30 August 2021

AGREED

Deputy Head of EMA ph.d. of biology \_\_\_\_\_ Lovtsova L.V.

(signature)

30 August 2021

## 1. The purpose and objectives of mastering academic discipline "Propaedeutics and prevention of dental diseases" (hereinafter - the discipline).

1.1 The purpose of mastering the discipline: teaching students the basics of medical deontology, the general principles of diagnostics; treatment of diseases of the oral cavity, professional initial manual skills of a dentist, modern methods and means of preventing dental diseases for the implementation of preventive measures in practice among various contingents of the population.

Propaedeutic dentistry is a section of dentistry, where the amount of knowledge necessary for the student to master specialized clinical disciplines is laid down. Practical skills acquired in the process of mastering the discipline are basic for all subsequent activities of a dentist. Practical classes are held on phantoms, which is of great importance in the acquisition of manual skills and abilities.

The process of studying the discipline is aimed at developing the following universal competencies (MC) in the graduate:

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

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

The process of studying the discipline is aimed at developing the following general professional competencies (GPC) in the graduate:

GPC-1. Able to implement moral and legal norms, ethical and deontological principles in professional activities

GPC-4. Able to conduct and monitor the effectiveness of prevention measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population

GPC-8. Able to use the basic physico-chemical, mathematical and natural science concepts and methods in solving professional problems

GPC-9. Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems

The process of studying the discipline is aimed at developing the following professional competencies (PC) in the graduate:

PC-2 ability and readiness to conduct preventive medical examinations, medical examination of various categories of citizens and the implementation of dispensary observation of patients with dental pathology

PC-10 readiness for educational activities to eliminate risk factors for the development of dental diseases, prevent dental diseases, to educate the population in basic hygiene measures of a health-improving nature, self-control skills for basic physiological indicators that contribute to the preservation and promotion of health.

### 1.2 Tasks of discipline:

As a result of completing the discipline, the student should:

#### 1. KNOW:

- norms of the culture of thinking, the foundations of logical thinking;
- understand the social significance of their future profession;
- understand the need for preventive measures in different age groups of the population;
- the specifics of working with confidential information, while maintaining medical secrecy;
- principles of medical ethics and deontology in work with patients, their relatives, colleagues
- principles of design and operation of dental equipment;
- normative documents on sterilization and processing of instruments;
- sanitary and epidemiological requirements;
- rules for the use of personal protective equipment;
- conditions requiring emergency and emergency medical care;
- topographic anatomy of the head, maxillofacial region, structure of teeth;
- Embryology and histology of the dentition;
- modern equipment, tools and materials used in dentistry;
- physical and chemical properties of dental materials, indications for their use;
- the main methods of therapeutic treatment of diseases of hard tissues of teeth (filling of carious cavities and root canals);

- the main methods of orthopedic treatment of pathology of hard tissues of teeth;
- biomechanics of tooth extraction;
- 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;
- conditions requiring emergency and urgent care;
- topographic anatomy of the head, maxillofacial region, features of blood supply, innervation, structure of teeth, embryogenesis, basic disorders of embryogenesis;
- normal functioning of the dent-alveolar system and violation of its functions in case of malocclusion;
- basic and additional methods of examination of a dental patient;
- organization and equipment of the dental office, department, clinic, sanitary and hygienic standards;
- modern equipment, tools and materials used in dentistry;
- principles of design and operation of dental equipment;
- rules and methods of disinfection and sterilization in dentistry;
- Etiology, pathogenesis, clinic and prevention of common diseases of the maxillofacial region;
- principles of dispensary observation in various categories of patients;
- Fundamentals of preventive medicine aimed at improving the health of the population;
- clinical picture, symptoms of caries and periodontal disease in adults and children;
- methods of treatment and prevention of caries and periodontal diseases;
- the importance of basic and additional methods of examination of a dental patient;
- the main issues of normal and pathological physiology of the dentition, its relationship with the functional state of other body systems;
- functioning of the dent-alveolar system and violation of its functions in case of malocclusion;
- medical indications and contraindications to the use of X-ray and other methods of additional examination;
- the main hygienic measures of a health-improving nature, contributing to the prevention of the occurrence of diseases;
- normal functioning of the dent-alveolar system and violation of its functions in case of malocclusion;
- local and general cariogenic factors;
- risk factors for the development of periodontal diseases;
- the main criteria for a healthy lifestyle and its formation;
- socio-hygienic and medical aspects of alcoholism, drug addiction, and their prevention;
- forms and methods of health education among different age groups;
- features of the organization and conduct of group prevention in kindergarten and school;
- the main risk factors in the occurrence of caries and periodontal disease;

## **2. BE ABLE TO:**

- to form a systematic approach to the analysis of medical information, based on the comprehensive principles of evidence-based medicine;
- be able to adequately perceive information, logically correct, reasoned and clearly build oral and written speech, critically assess their strengths and weaknesses;
- analyze socially significant problems
- sanitize instruments, medical and diagnostic rooms;
- correctly use personal protective equipment;
- evaluate the effectiveness and safety of the treatment;
- provide emergency and urgent medical care;
- to carry out dental manipulations on the phantom - treatment of caries, restoration of the anatomical shape of the teeth;
- to carry out the stages of endodontic treatment on the phantom in various groups of teeth;
- to prepare teeth for orthopedic constructions on the phantom;
- perform tooth extraction on the phantom;
- provide emergency and emergency medical care in case of sudden acute conditions that threaten the patient's life;
- determine the methods of administration, regimen and dose of drugs;
- perform various methods of local anesthesia of the maxillofacial area on the phantom
- Conduct an examination of a dental patient;
- conduct a survey of a dental patient;
- to diagnose dent-alveolar deformities, anomalies of teeth and jaws;

- analyze the results of the survey;
- work with dental equipment (installation, instruments, tips, cutting and abrasive instruments, disposable instruments) in compliance with ergonomic principles, safety precautions, sanitary and epidemiological regime;
- use personal protective equipment appropriately;
- carry out preventive measures to prevent the occurrence of dental diseases, incl. caries and periodontal diseases, as well as dental anomalies;
- conduct preventive examinations of various categories of citizens;
- identify and eliminate risk factors for caries and periodontal disease;
- register dental status data during preventive examination in patients of various age groups;
- conducting a dental examination of patients of various age groups and identifying those in need of dental treatment;
- interpret the data of instrumental, additional and laboratory studies;
- detect anomalies of the oral mucosa, dent-maxillary anomalies and deformities;
- evaluate the physical development and functional state of the patient's body;
- timely identify bad habits in children;
- to teach patients of different age groups how to use individual means and items of oral hygiene;
- individually select the means and items of oral hygiene, depending on the age and condition of the patient's oral cavity;
- 1. conduct conversations, lectures with various contingents of the population on the prevention of the occurrence and development of dental diseases;
- explain the need and principles for eliminating cariogenic factors related to nutrition and personal oral hygiene;
- to form positive behavior in patients aimed at maintaining and improving the level of health;

### 3. POSSESS:

- the skills of presenting an independent point of view, analysis and logical thinking, public speech, moral and ethical argumentation, discussions and round tables;
- principles of medical deontology and medical ethics; skills in informing patients of various age groups and their relatives and friends in accordance with the requirements of the rules of "informed consent";
- goal-setting skills, the ability to logically formulate the results of thinking in oral and written speech;
- skills to develop motivation to perform professional activities, solve socially and personally significant problems
- methods of disinfection and antiseptic treatment of instruments and equipment in order to avoid infection of the doctor and patient;
- assessment of possible complications caused by the use of local anesthesia;
- assessment of possible side effects from taking medications;
- method of selection of dental materials for the treatment of dental diseases;
- modern methods of treatment of hard tissues of teeth, approved for use in medical practice;
- methods of removal of various groups of teeth;
- methods of taking impressions and casting models
- selection of the type of local anesthesia
- selection of drugs for the treatment of caries and its complications;
- assessment of possible side effects from taking medications;
- methods of primary and repeated examination of the patient;
- to identify dent-alveolar, facial anomalies and prerequisites for their development in patients;
- to diagnose caries, its complications;
- methods for antiseptic treatment of equipment, instruments, dental materials and hands;
- selection of medical dental products in various clinical situations (therapeutic, orthopedic, surgical treatment)
- use dental medical products on the phantom;
- methods of primary prevention of caries and periodontal diseases in any age group;
- methods of conducting preventive examinations of the population;
- methods of recording the state of hard tissues of teeth, periodontium, oral hygiene;
- selection of dental materials for the prevention of caries and periodontal diseases;
- selection of drugs for the prevention of caries and periodontal disease;
- methods of collecting a complete medical history of the patient;

- identification of dent-alveolar, facial anomalies, deformities and prerequisites for their development in patients;
- methods for detecting and predicting a cariogenic situation in the oral cavity;
- methods for detecting and predicting periodontal diseases in patients;
- analysis of the results of the survey and, if necessary, refer patients for additional studies and consultation with other specialists;
- methods of conducting a complex of myogymnastics exercises for the prevention of dent-alveolar anomalies;
- methods of planning and carrying out hygiene measures depending on the state of periodontal tissues;
- method of controlled brushing of teeth;
- the ability to form a plan for preventive dental care for the patient
- methodology for conducting dental education of the population on the occurrence and prevention of dental diseases;
- draw up plans for conducting “health lessons”, texts of conversations, memos, lectures on the prevention of dental diseases, taking into account the specifics of the student population;
- to form in patients the motivation to lead a healthy lifestyle and give up bad habits;

## **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.**

### **2.2. The following knowledge, skills and abilities formed by previous academic disciplines:**

1. Chemistry
2. Biological chemistry - biochemistry of the oral cavity.
3. Human anatomy - head and neck anatomy.
4. Histology, embryology, cytology - histology of the oral cavity.
5. Normal physiology - physiology of the maxillofacial region.
6. Microbiology, virology - microbiology of the oral cavity

### **2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:**

1. Therapeutic dentistry
2. Orthopedic dentistry
3. Surgical dentistry
4. Pediatric dentistry

## **3. Deliverable 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

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the student should:		
				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	<p>IET 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis</p> <p>IUC 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; seek information and solutions based on action, experimentation and experience</p> <p>IUC 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems</p>	<p>1. norms of the culture of thinking, the foundations of logical thinking;</p> <p>2. understand the social significance of their future profession;</p> <p>3. basic principles of critical analysis</p>	<p>1. to form a systematic approach to the analysis of medical information, based on the comprehensive principles of evidence-based medicine;</p> <p>2. be able to adequately perceive information, logically correct, reasoned and clearly build oral and written speech,</p> <p>3. critically assess their strengths and weaknesses, analyze socially significant problems;</p>	<p>- skills of presenting an independent point of view, analysis and logical thinking, public speech, moral and ethical argumentation, discussions;</p> <p>- principles of medical deontology and medical ethics; informing patients of various age groups and their relatives and friends in accordance with the requirements of the rules of "informed consent"</p>
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2	UC-4	Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	<p>IUC 4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies</p> <p>IUC 4.2 Knows how to: express their thoughts in Russian and foreign languages in business communication</p> <p>IUC 4.3 Has practical experience in: compiling texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian; experience of speaking Russian and foreign languages</p>	<p>1. modern means of information and communication technologies</p> <p>2 fundamentals of speaking and writing</p> <p>3 lexical minimum of a general and terminological nature; special vocabulary and reference literature and the rules for working with it</p>	<p>express your point of view, conduct a discussion in Russian and foreign languages</p> <p>2 use communications verbally and in writing for obtaining professionally significant 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>
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3	GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	<p>IGPC 1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice</p> <p>IGPC 1.2 Is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives)</p> <p>IGPC 1.3 Has practical experience: solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice</p>	<p>1. main national and international ethical documents;</p> <p>2 ethical documents; principles of ethics and deontology in all areas of medical activity.</p>	1 apply the principles of ethics and deontology in their professional activities	1 ethical behavior skills and principles of deontology at solving professional problems within the discipline under study
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4	GPC-4.	Able to conduct 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 for 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 health-improving hygiene measures that promote health and prevent the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common diseases</p> <p>IGPC 4.2 Is able to: conduct health and hygiene education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent the most common diseases; to carry out</p>	<ol style="list-style-type: none"> <li>1. normative documents on sterilization and processing of instruments; sanitary and epidemiologic requirements;</li> <li>2. rules for the use of personal protective equipment;</li> <li>3. Etiology, pathogenesis, clinic and prevention of common diseases of the maxillofacial region;</li> <li>4. principles of dispensary observation in various categories of patients;</li> <li>5. Fundamentals of preventive medicine aimed at improving the health of the population;</li> <li>6. clinical picture, symptoms of caries and periodontal disease in adults and children;</li> <li>7. methods of treatment and prevention of caries and periodontal diseases;</li> <li>8. conditions requiring</li> </ol>	<ol style="list-style-type: none"> <li>1. carry out preventive measures to prevent the occurrence of dental diseases, incl. caries and periodontal diseases, as well as dental anomalies;</li> <li>2. to carry out preventive examinations of various categories of citizens;</li> <li>3. identify and eliminate risk factors for caries and periodontal disease;</li> </ol>	<ol style="list-style-type: none"> <li>1. methods of primary prevention of caries and periodontal diseases in any age group;</li> <li>2. methods of conducting preventive examinations of the population;</li> <li>3. methods of recording the state of hard tissues of teeth, periodontium, oral hygiene;</li> <li>4. selection of dental materials for the prevention of caries and periodontal diseases;</li> <li>5. selection of drugs for the prevention of caries and periodontal disease;</li> </ol>
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			sanitary and educational work among children and adults in order to form a healthy lifestyle and prevent the most common diseases; to form in children and adults (their legal representatives) behavior aimed at maintaining and improving the level of somatic health; develop and implement programs for the formation of a healthy lifestyle, including programs to reduce the consumption of alcohol and tobacco, prevent and combat the non-medical consumption 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 the prevention and early detection of diseases, including cancer; select and prescribe drugs	emergency and urgent medical care		
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			<p>and non-drug methods for the prevention of the most common diseases</p> <p>IGPC 4.3 Has practical experience in: promotion of a healthy lifestyle and prevention of the most common diseases; carrying out sanitary-educational work among children and adults; formation in children and adults (their legal representatives) of behavior aimed at maintaining and improving the level of somatic health; formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; development of a plan of preventive measures and the implementation of methods of group and individual prevention of the most common diseases; prescribing preventive measures for</p>		
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			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 drugs and non-drug methods for the prevention of the most common diseases			
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5	GPC-8	Able to use the basic physico-chemical, mathematical and natural science concepts and methods in solving professional problems	<p>IGPC 8.1 Knows: basic physicochemical, mathematical and natural science concepts and methods that are used in medicine</p> <p>IGPC 8.2 Able to: interpret the data of the main physical-chemical, mathematical and natural-science methods of research in solving professional problems</p> <p>IGPC 8.3 Has practical experience: application of basic physical-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 dentition;</p> <p>-modern equipment, tools and materials used in dentistry;</p> <p>- physical and chemical properties of dental materials, indications for their use;</p> <p>- basic methods of therapeutic treatment of diseases of hard tissues of teeth (filling of carious cavities and root canals);</p> <p>- basic methods of orthopedic treatment of pathology of hard tissues of teeth;</p> <p>biomechanics of tooth extraction</p> <p>-Basic aspects of pain in dentistry.</p> <p>-groups of drugs used in practical dentistry, their pharmacodynamics,</p>	<p>-to carry out dental manipulations on the phantom - treatment of caries, restoration of the anatomical shape of the teeth;</p> <p>-carry out the stages of endodontic treatment on the phantom in different groups of teeth;</p> <p>- to carry out preparation of teeth for orthopedic constructions on the phantom;</p> <p>- perform 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, regimen and dose of drugs;</p> <p>3. perform various methods of local anesthesia of the maxillofacial</p>	<p>- method of selection of dental materials for the treatment of dental diseases;</p> <p>- modern methods of treatment of hard tissues of teeth, approved 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>-one. choosing the type of local anesthesia</p> <p>2. selection of drugs for the treatment of caries and its complications;</p> <p>3. assessment of possible side effects from taking medications</p> <p>methods of disinfection and antiseptic treatment of instruments and equipment in order to avoid infection of the doctor and patient;</p> <p>-assessment of possible complications caused by the use of local anesthesia;</p> <p>-assessment of</p>
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				compatibility; -principles, indications, techniques and methods of anesthesia in dentistry; 4. conditions requiring emergency and urgent care	area on the phantom	possible side effects from taking medications;
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6	GPC-9	<p>GPC-9. Able to assess morphofunctional states and pathological processes in the human body to solve professional problems</p>	<p>IGPC-9.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p> <p>IGPC 9.2 Able to: evaluate the main morphological and functional data, physiological conditions and pathological processes in the human body</p> <p>IGPC 9.3 Has practical experience: assessment of basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems</p>	<p>topographic anatomy of the head, maxillofacial area, features of blood supply, innervation, structure of teeth, embryogenesis, basic disorders of embryogenesis ;</p> <p>2. normal functioning of the dentition and violation of its functions in case of malocclusion;</p> <p>3. basic and additional methods of examination of a dental patient;</p>	<p>- conduct a dental examination;</p> <p>- conduct a survey of the patient;</p> <p>diagnose dentoalveolar deformities, anomalies of teeth and jaws;</p> <p>Analyze the results of the survey;</p>	<p>-Methods of primary and repeated examination of the patient;</p> <p>- to identify dentoalveolar, facial anomalies and prerequisites for their development in patients;</p> <p>diagnose caries, its complications;</p>
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7	GPC-11	<p>readiness for the use of medical devices provided for by the procedures for providing medical care to patients with dental diseases</p>	<p>ID-6 GPC-11 - the use of dental materials and instruments in the treatment of dental caries and its complications</p>	<p>1. organization and equipment of a dental office, department, clinic, sanitary and hygienic standards; 2. modern equipment, tools and materials used in dentistry; 3. principles of design and rules for the operation of dental equipment; 4. rules and methods of disinfection and sterilization in dentistry;</p>	<p>1. work with dental equipment (installation, instruments, tips, cutting and abrasive instruments, disposable instruments) in compliance with ergonomic principles, safety precautions, sanitary and epidemiologic al regime; 2. it is safe to use personal protective equipment;</p>	<p>Methods for antiseptic treatment of dental equipment, instruments, dental materials and hands; - apply dental medical products on the phantom; - selection of medical dental products in various clinical situations (therapeutic, orthopedic, surgical treatment)</p>
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7	PC-2	the ability and readiness to conduct preventive medical examinations, medical examinations of various categories of citizens and the implementation of dispensary observation of patients with dental pathology	<p>IPC 2.1 Knows:  Normative legal acts regulating the procedures for conducting preventive medical examinations and medical examinations  The main criteria for a healthy lifestyle and methods for its formation  Socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention  Forms and methods of health education among patients (their legal representatives), medical workers  Features of specific and non-specific prevention of dental diseases  The main hygienic measures of a health-improving nature that promote health and prevent the occurrence of dental diseases  Etiology, pathogenesis, prevention of dental diseases  Fundamentals of Preventive Medicine  Stages of planning and implementation of</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;  4. clinical picture, symptoms of caries and periodontal disease in adults and children;  5. methods of treatment and prevention of caries and periodontal diseases;</p>	<p>1. carry out preventive measures to prevent the occurrence of dental diseases, incl. caries and periodontal diseases, as well as dental anomalies;  2. to carry out preventive examinations of various categories of citizens;  3. identify and eliminate risk factors for caries and periodontal disease;</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 recording the state of hard tissues of teeth, periodontium, oral hygiene;  4. selection of dental materials for the prevention of caries and periodontal diseases;  5. selection of drugs for the prevention of caries and periodontal disease;</p>
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			<p>community programs for the prevention of dental diseases</p> <p>IPC 2.2 Able to:</p> <p>Conduct health and hygiene education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent dental diseases</p> <p>Carry out health education among children and adults with dental diseases in order to form a healthy lifestyle and prevent dental diseases</p> <p>To form in children and adults (their legal representatives) behavior aimed at maintaining and improving the level of somatic and dental health</p> <p>Develop and implement healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances</p> <p>Develop a plan of preventive measures and</p>		
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			<p>implement methods of group and individual prevention of major dental diseases</p> <p>Conduct preventive medical dental examinations of the population</p> <p>Assign preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including cancer</p> <p>Conduct the selection and prescription of drugs and non-drug methods for the prevention of dental diseases in children and adults</p> <p>Carry out dispensary supervision of children and adults with dental diseases</p> <p>IPC 2.3 Has practical experience:</p> <p>Promotion of a healthy lifestyle and prevention of dental diseases</p> <p>Carrying out health education among children and adults with dental diseases</p> <p>Formation in children and adults (their legal representatives) of behavior aimed at maintaining and</p>			
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			<p>improving the level of somatic health</p> <p>Formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances</p> <p>Development of a plan of preventive measures and the implementation of methods for 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 measures for children and adults with dental diseases, 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</p> <p>Selection and</p>		
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			<p>prescription of drugs and non-drug methods for the prevention of dental diseases in children and adults</p> <p>Conducting a dispensary examination of children and adults with dental diseases</p> <p>Monitoring compliance with dental preventive measures</p>			
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8	PC-10	<p>PC-10 readiness for educational activities to eliminate risk factors for the development of dental diseases, prevent dental diseases, to educate the population in basic hygiene measures of a health-improving nature, self-control skills of basic physiological indicators that contribute to the preservation and promotion of health.</p>	<p>IPC 10.1 Knows: Forms and methods of sanitary and hygienic education among patients (their legal representatives), Features of specific and non-specific prevention of dental diseases The main hygienic measures of a health-improving nature that promote health and prevent the occurrence of dental diseases Etiology, pathogenesis, prevention of dental diseases Fundamentals of Preventive Medicine Methods and forms of organization of communication, techniques and methods of attracting the population to training in hygiene measures of a health-improving nature Psychological and pedagogical foundations and methods of using technical teaching aids, information computer technologies, electronic educational and information resources, distance</p>	<p>1. the value of the main and additional methods of examination of a dental patient; 2. the main issues of normal and pathological physiology of the dental system, its relationship with the functional state of other body systems; 3. functioning of the dentition and violation of its functions in case of malocclusion; 4. medical indications and contraindications for the use of X-ray and other methods of additional examination; 1. basic hygienic measures of a health-improving nature, contributing to the prevention of the occurrence of diseases; 2. normal functioning of the dentition and violation of its functions in case of</p>	<p>1. to register dental status data during routine examinations in patients of various age groups; 2. Carrying out a dental examination of patients of various age groups and identifying those in need of dental treatment; 3. to interpret the data of instrumental, additional and laboratory studies; 4. detect abnormalities of the oral mucosa, dento-maxillary anomalies and deformities; 1. Assess the physical development and functional state of the patient's body; 2. timely identify bad habits in children; 3. to teach patients of different age groups how to use individual means and items of oral hygiene; 4. individually select means</p>	<p>1. Methods of collecting a complete medical history of the patient; 2. detection of dental and facial anomalies, deformities and prerequisites for their development in patients; 3. methods for detecting and predicting a cariogenic situation in the oral cavity; 4. methods for detecting and predicting periodontal diseases in patients; 5. analysis of the results of the examination and, if necessary, refer patients for additional studies and consultation with other specialists; 1. methods of conducting a complex of myogymnastic exercises for the prevention of AF; 2. methods of planning and implementation of hygienic measures depending on the state of periodontal</p>
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			<p>learning technologies and e-learning, including telemedicine technologies Educational technologies and methods for teaching patients and medical workers</p> <p>IPC 10.2 Can: Plan, organize and conduct activities within the framework of sanitary and hygienic education among the population, training of patients and medical workers</p> <p>Carry out health education among children and adults with dental diseases in order to form a healthy lifestyle and prevent dental diseases</p> <p>Involve available medical personnel in the planning and development of the content of measures for sanitary and hygienic education among the population, education of patients and medical workers</p> <p>It is reasonable to use technical teaching aids, information computer technologies,</p>	<p>malocclusion;</p> <p>3.local and general cariogenic factors;</p> <p>4. risk factors for the development of periodontal diseases;</p> <p>1. the main criteria for a healthy lifestyle and its formation;</p> <p>2.social-hygienic and medical aspects of alcoholism, drug addiction, and their prevention;</p> <p>3. Forms and methods of health education among different 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 disease;</p>	<p>and items of oral hygiene, depending on the age and condition of the patient's oral cavity;</p> <p>1. to conduct lectures with various contingents of the population on the prevention of the occurrence and development of dental diseases;</p> <p>2. explain the need and principles for eliminating cariogenic factors related to nutrition and personal oral hygiene;</p> <p>3. to form positive behavior in patients aimed at maintaining and improving the level of health;</p>	<p>tissues;</p> <p>3. method of controlled brushing of teeth;</p> <p>4. the ability to form a plan for preventive dental care for the patient</p> <p>1. methodology for conducting dental education of the population on the occurrence and prevention of dental diseases;</p> <p>2. make plans for conducting "health lessons", texts of conversations, memos, lectures on the prevention of dental diseases, taking into account the specifics of the student population;</p> <p>3. to form in patients the motivation to lead a healthy lifestyle and give up bad habits;</p>
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			<p>electronic educational and information resources, distance learning 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:</p> <p>Planning, organizing and holding an event within the framework of sanitary and hygienic education among the population</p> <p>Planning, organizing and conducting patient and healthcare professional education</p> <p>Promotion of a healthy lifestyle and prevention of dental diseases</p> <p>Formation in children and adults (their legal representatives) of behavior aimed at maintaining and improving the level of dental health</p>			
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**4. Sections of the academic discipline and competencies that are formed when mastering them:**

№	Competence code	Section name of the discipline	The content of the section in teaching units
	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 the dental patient. Additional methods of examination. Technique for reading radiographs. Introduction to orthopedic dentistry. Goals and objectives of orthopedic dentistry. Rules for filling out a medical card of a dental patient.
	UC – 1 GPC - 9	Anatomy of teeth. Functional anatomy of teeth. Topographic and anatomical structure of the cavities of various groups of teeth.	.General anatomy of teeth. Eruption of permanent teeth. 2. Histological structure, chemical composition and functions of hard tissues of the tooth. The structure of the dentition. Dental arches, form of dental arches. Frontal group of teeth of the upper jaw. Frontal group of teeth of the lower jaw. Premolars and canines of the upper jaw. Premolars and canines of the lower jaw. Molars of the upper jaw. Molars of the lower jaw.

	<p>UC – 4 GPC – 9 GPC - 8</p>	<p>Principles of preparation of carious cavities.</p>	<ol style="list-style-type: none"> <li>1. Definition of caries. Classification of caries ICD. Classification of carious cavities according to Black. Indices of intensity and distribution of caries. Treatment methods for dental caries.</li> <li>2. Principles and stages of preparation of carious cavities. Tools for the preparation of carious cavities. Conditions for painless preparation. Preparation of cavities 1 and 6 classes according to Black.</li> <li>3. Preparation of carious cavities of the 2nd class according to Black. Requirements for the preparation of class 2 cavities. Various approaches in the preparation of carious cavities of the 2nd class. Class 2 cavity preparation on a phantom.</li> <li>4. Preparation of carious cavities of the 2nd class according to Black. Methodology for the formation of an additional site. Cavity preparation type MOD</li> <li>5. Features of the preparation of carious cavities of the 3rd and 5th grade according to Black. Requirements for the preparation of cavities 3 and 5 classes. Options for the formation of cavities 3 and 5 classes according to Black. Formation of cavities 3 and 5 classes.</li> <li>6. Features of the preparation of carious cavities of the 4th class according to Black. Requirements for the preparation of class 4 cavities. Stages of preparation of carious cavities of the 4th class according to Black, tools. Cavity options. Cavity formation class 4.</li> <li>7. Features of tooth preparation in the manufacture of veneers.</li> </ol>
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	<p>UC – 1 GPC – 9 GPC - 8</p>	<p>Filling of carious cavities.</p>	<p>8. Classification of filling materials. Requirements for filling materials, their properties. Materials for medical pads and temporary filling of teeth. Composition, properties, indications for use.</p> <p>9. Cements for permanent filling of teeth (silicate, silico-phosphate). Composition, properties, indications for use.</p> <p>10. Glass ionomer cements. Classification, chemical properties, indications for use. The method of work of the SIC.</p> <p>11. Amalgams and their substitutes. Classification, physical and chemical properties, indications for use. Features of the formation of a carious cavity for amalgam filling. Method of preparation and stages of filling carious cavities with amalgam.</p> <p>12. Composite filling materials. Classification, composition, physical and chemical properties, indications for use.</p> <p>13. Enamel-dentine adhesive systems of various generations. The mechanism of formation of the hybrid zone.</p> <p>14. Stages of filling carious cavities with composite materials of chemical curing. Tools. Filling with composites of chemical hardening of cavities I, V, VI.</p> <p>15. Methodology for restoring the contact point when filling cavities II, III, IV classes. Matrices and matrix holders. Interdental wedges.</p> <p>Class II cavity filling with chemically cured composites.</p> <p>16. Filling of III and IV class cavities with chemical curing composites.</p> <p>17. Stages of filling carious cavities with light curing composite materials. Directional polymerization technique. Photopolymerizers, their technical characteristics.</p> <p>Filling of cavities of I and VI classes with light curing composites.</p> <p>18. Compomers and ceramers. Composition, properties, indications for use.</p> <p>19. Filling class II cavities with light curing composites.</p> <p>20. Filling of class III carious cavities with light curing composites.</p> <p>21. Filling of IV class carious cavities with light curing composites. Technique for restoring the crown angle using opaque and enamel tones of the composite material.</p> <p>22. Methods for finishing fillings from various filling materials. Use of finishing burs, polishing discs, strips, other polishing systems.</p>
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	UC – 1 GPC – 9 GPC - 8	Tooth Extraction.	Tooth extraction operation. Indications and contraindications. Stages of the extraction of teeth in the upper jaw. Forceps and tools for extracting teeth on the upper and lower jaws.
	UC – 1 GPC- 8 GPC - 9	Endodontics.	<ol style="list-style-type: none"> <li>1. Endodontics. Definition of the concepts "Endodontist", "Morphofunctional complexes of endodontist", "Endodontia". Topographic features of the structure of the tooth cavity in different groups of teeth.</li> <li>2. Devitalizing agents. Opening the cavity of the tooth and applying a devitalizing agent. Disclosure of the tooth cavity in carious and intact single-rooted and multi-rooted teeth.</li> <li>3. Endodontic instruments. Classification, standardization. Method of work. Manual preparation of root canals: a standardized technique.</li> <li>4. Method of expanding the root canals "Step Back". Expanding the root canals of single-rooted teeth.</li> <li>5. Methodology for expanding root canals "Step Back". Tools, the sequence of their application. Expansion of the root canals of multi-rooted teeth.</li> <li>6. Methodology for expanding root canals "Crown Down".</li> <li>7. Antiseptic and medical preparations in endodontics. Properties, indications for use. Medical treatment of root canals of teeth.</li> <li>8. Classification of filling materials for root canals. Indications for use. Root canal filling with pastes</li> <li>9. Filling the root canals of the teeth with gutta-percha. Method of lateral condensation.</li> <li>10. Filling the root canals of the teeth with gutta-percha. Canal filling with the Thermafil obturator.</li> <li>11. Mistakes and complications in endodontic treatment. closure of perforations. Unsealing of root canals. Tools.</li> <li>12. Features of restoration of teeth after endodontic treatment. Preparation of the root canal for the anchor pin.</li> </ol>

	<p>UC – 1 GPC - 8 GPC - 9</p>	<p>Odontopreparation.</p>	<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.</p> <p>Metal cast and combined artificial crowns</p> <p>Indications and contraindications for the use of solid metal, plastic and combined artificial crowns. Clinical and laboratory stages of manufacturing.</p> <p>Stages of preparation of teeth for metal cast, Fixed bridges</p> <p>Types of fixed bridges. Features of the preparation of supporting teeth in the manufacture of bridges. Clinical and laboratory stages of manufacturing fixed bridge prostheses.</p> <p>Teeth preparation.</p> <p>Impression (impression) materials</p> <p>Classification of impression materials, indications for use. Development of a technique for obtaining impressions on phantoms. Auxiliary materials</p> <p>Modeling materials (waxes) - classification, properties, application. Modeling of the crown of the tooth and the intermediate part of the bridge prosthesis from wax.</p>
	<p>UC – 1 UC-4 GPC - 8 GPC - 9</p>	<p>Biomechanics of the chewing apparatus.</p>	<p>1.Строение зубных рядов. Зубные дуги, форма зубных дуг. Строение зубных рядов. Окклюзия и артикуляция. Виды окклюзии. Прикус. Виды прикуса.</p> <p>2.Строение и функция височно-нижнечелюстного сустава. Основные мышцы, осуществляющие движение нижней челюсти</p> <p>3.Введение в гнатологию. Виды движений нижней челюсти. Виды окклюзии. Методы определения и фиксации центральной окклюзии.</p> <p>Определение высоты нижнего отдела лица</p>
	<p>UC – 1 GPC - 8</p>	<p>Asepsis and antisepsis in dentistry.</p>	<p>Asepsis and antisepsis in dentistry. Disinfection, pre-sterilization cleaning and sterilization of instruments. Office cleaning rules.</p>
	<p>UC – 4 GPC - 8 GPC – 9</p>	<p>Anesthesia in dentistry.</p>	<p>1. Types of local anesthesia. Anesthetics. Mechanism of action. Instruments for injection anesthesia.</p> <p>2. Infiltration, intrapulpal and intraligamentary anesthesia. Non-injection methods of anesthesia.</p> <p>3. Anesthesia on the upper jaw. Topography and zones of innervation of the branches of the maxillary nerve. Infiltration and conduction anesthesia in the upper jaw.</p> <p>4. Anesthesia on the lower jaw. Topography and zones of innervation of the branches of the mandibular nerve. Infiltration and conduction anesthesia in the lower jaw.</p>

	<p>UC - 1 UC-4 PC 2</p>	<p>Introduction to Prevention Epidemiology of Dental Diseases</p>	<p>The concept of the prevalence and intensity of dental diseases. Indices of intensity, increase in the intensity of caries, reduction in the growth of caries. Indexes of registration of the state of periodontal tissues. Levels of prevalence and intensity of caries and periodontal diseases according to WHO criteria. Goals, objectives, stages, methods, registration and analysis of the results of an epidemiological dental survey of the population. Survey Methodology and Data Record Card WHO (1995). The significance of the results of an epidemiological survey for the development and evaluation of the effectiveness of programs for the prevention of dental diseases.</p>
	<p>UC - 1 GPC - 9 PC -2</p>	<p>Examination of a patient in the preventive department of a polyclinic</p>	<p>Equipment and equipment of the prevention room. Cross-infection control in the dental office. The order 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 (the frenulum of the upper and lower lips, tongue, small vestibule of the oral cavity) in the occurrence and development of dental diseases. Salivation disorder. The role of hyposalivation and xerostomia in the development of oral diseases. Methods for assessing the state of hard tissues of teeth: examination, probing, vital enamel staining, instrumental. Dental caries intensity indices: KPU, KPU of teeth and surfaces. Graphic-digital and international teeth designation system. Methods for the study of periodontal tissues (examination, palpation, instrumental examination, radiography, etc.). Assessment of the state of periodontal tissues using indices: CPITN, CPI, PMA, KPI. Identification of dental anomalies and risk factors for their occurrence. Determination of the hygienic state of the oral cavity. Hygiene indices according to Fedorov - Volodkina, Green - Vermillion, oral hygiene efficiency index (PHP).</p>

	<p>GPC-1 GPC – 4 GPC - 9 PC - 2</p>	<p>Oral hygiene. Hygienic education of the population</p>	<p>Surface formations on the teeth and dental deposits: cuticle, pellicle, plaque, tartar. Methods for detecting dental deposits. Individual oral hygiene. Oral hygiene products. Toothbrushes and requirements for them. Classification, composition, properties of toothpastes. Purpose and methods of using elixirs, flosses, toothpicks, brushes, tongue brushes, chewing gums. Individual selection of hygiene products depending on the age and condition of the patient's oral cavity. Teeth brushing methods. Features of teaching brushing teeth to children of different ages and adults. Supervised brushing of teeth and its assessment. Motivation of parents to care for the oral cavity of children from the moment of eruption of the first temporary teeth. 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. Hygienic education and education of the population in oral hygiene is an 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.</p>
	<p>UC – 1 UC-4 GPC - 9 PC- 2</p>	<p>Enamel cariogenicity. Cariogenic situation in the oral cavity.</p>	<p>Structure and properties of enamel. Methods for assessing caries resistance of enamel. Modern ideas about the mechanism of de - and remineralization of enamel. Ways to increase caries resistance of enamel. The concept of a cariogenic situation in the oral cavity. The role of general and local cariogenic factors, the mechanism of their action. The value of plaque in the occurrence of a cariogenic situation. The role of malnutrition (composition, consistency, increased consumption of carbohydrates, etc.) in the occurrence of caries. The composition and properties of the oral fluid and its significance in the maturation of enamel, the processes of de and remineralization of enamel. Stefan Curve. The role of fluoride deficiency in drinking water and the environment in the development of caries in the population of the region. Assessment of the cariogenic situation in the oral cavity. Ways to eliminate the cariogenic situation.</p>

	<p>UC-1 GPC-8 GPC- 9 PC-2</p>	<p>Primary prevention of dental caries</p>	<p>General methods of caries prevention: healthy lifestyle, hardening, balanced diet, oral hygiene, dental education, oral health, clinical examination.</p> <p>Endogenous means of preventing caries: 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.</p> <p>Methods of systemic (endogenous) introduction of fluorides into the body: fluoridation of drinking water, milk, salt, Fluoride-containing tablets and drops.</p> <p>Indications, contraindications, dosages, methods of implementation, effectiveness of use, experience abroad and in Russia.</p> <p>Local (exogenous) means of fluoride prophylaxis: fluoride-containing varnishes, gels, solutions for rinsing and applications, toothpastes. Fissure sealing method. Materials, indications, contraindications, methods, efficiency.</p> <p>Detection of early forms of caries: examination, probing, vital enamel staining, etc.</p>
	<p>GPC - 4 PC - 10</p>	<p>Dispensary of the population. Sanitation of the oral cavity. Prevention of complications of dental caries.</p>	<p>The concept of secondary prevention. Goals, objectives, organizational forms and methods of carrying out planned sanitation of the oral cavity, evaluation of its effectiveness. Clinical 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 disease. Evaluation of the effectiveness and content of medical examination of patients of different ages at the dentist.</p>
	<p>UC-1 PC - 10</p>	<p>Antenatal prevention of dental diseases</p>	<p>Antenatal prevention of dental diseases: elimination of occupational hazards, rational regimen of the day and nutrition of a pregnant woman, treatment of infectious diseases, fight against toxicosis, sanitation of the oral cavity, dental education.</p> <p>Influence of the course of pregnancy on the formation of the dentoalveolar system of the child. Prevention of dental diseases in pregnant women and dental education is the basis of dental health in young children.</p>
	<p>UC-1 PC - 10</p>	<p>Prevention of non-carious lesions of hard dental tissues</p>	<p>Toxicity of fluorine compounds. Optimal and potentially harmful doses of fluoride. 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.</p>

	UC-1 GPC - 8 PC – 10	Prevention of periodontal tissue diseases	Classification of periodontal diseases. The mechanism of occurrence and development of inflammatory periodontal diseases. The role of local and general risk factors in the occurrence of periodontal disease. Methods and means of primary prevention of periodontal diseases. The value of oral hygiene in the prevention of inflammatory periodontal diseases
	UC-1 PC – 10	Dental Education	Purpose, methods, means and forms of dental education. Motivation of the population to maintain oral health. The content and features of dental education in antenatal clinics, rooms for a healthy child, kindergartens, schools, dental clinics. Personnel involved in the work. Methods for assessing the effectiveness of dental education. Population survey

### 5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters				
	Volume in credit units (CU)	Volume in academic hours (AH)	2	3	4	5	6
<b>Classroom work, including</b>	<b>18</b>	<b>648</b>	<b>198</b>	<b>216</b>	<b>108</b>	<b>72</b>	<b>54</b>
Lectures (L)	1,75	62	24	16	8	10	4
Laboratory practicum (LP)*							
Ptacticals (P)	8,5	306	94	114	36	34	28
Seminars (S)							
Student's individual work (SIW)	6,75	244	80	86	28	28	22
Mid-term assessment							
Credit/exam (specify the type)	1	36			36 Exam		Pass
<b>TOTAL LABOR INTENSITY</b>	<b>18</b>	<b>648</b>	<b>198</b>	<b>216</b>	<b>108</b>	<b>72</b>	<b>54</b>

### 6. Content of the academic discipline

## 6.1 Sections of the discipline and types of academic work

№	№ Section	Name of the section of the academic discipline	Types of academic work* (in AH)					Total
			L	LP	P	S	SIW	
1	2	Examination of a dental patient. Medical documentation. Anatomy of teeth. Functional anatomy of teeth. Principles of preparation of carious cavities. Filling materials for the treatment of caries. Impression materials in orthopedic dentistry.	24		94		80	198
2	3	Endodontics. Alloys in orthopedic dentistry. Biomechanics of the chewing apparatus. Articulation, occlusion.	16		114		86	216
3	4	Asepsis Antisepsis. Organization of the surgical room. Surgical instruments. Local anesthesia in dentistry. Surgery to remove teeth. Mistakes, Complications. Urgent care.	8		36		28	108
4	5	Introduction to prevention. Epidemiology of dental diseases. Examination of a dental patient. Oral hygiene. Means and hygiene items. Hygienic education of the population. dental education	10		34		28	72
5	5	Cariogenic situation in the oral cavity. Primary prevention of dental caries. Medical examination Sanitation of the oral cavity. Antenatal prophylaxis. Prevention of periodontal diseases, dental anomalies. The development of the child's bite	4		28		22	54
		<b>TOTAL</b>	<b>62</b>		<b>306</b>		<b>244</b>	<b>648</b>

\* L- Lectures, LP - laboratory practicum, P – practical lessons, S - seminars, SIW - student's individual work

## 6.2 Thematic schedule of educational work types:

### 6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH				
		2 sem	3 sem	4 sem	5 sem	6sem
1.	Introduction to the specialty. Goals and objectives of propaedeutic dentistry. The subject of orthopedic and therapeutic dentistry.	2				
2.	Embryogenesis of the tooth.	2				

3.	Types of orthopedic structures. Classification. Anatomical features of the oral cavity, which are important for prosthetics.	2				
4.	Impression materials. Classification, requirements, methods of obtaining, crystallizing materials.	2				
5.	Cariou cavities according to Black's classification. Stages and features of preparation. Cavity MOD.	2				
6.	Plastics in orthopedic dentistry (basic, acrylic, elastic).	2				
7.	Dental filling materials for permanent fillings. Classification. glass ionomer cements. Composition, properties, indications for use in therapeutic dentistry.	2				
8.	Light curing composite filling materials. Filling technique. Polymerization stress and methods for its elimination.	2				
9.	Plastics of cold polymerization. Methods for making temporary crowns.	2				
10.	Adhesive systems. Classification, stages of work. Modern adhesive protocol.	2				
11.	Contact point. Types of contact points. Methods and features of sealing. Matrix systems. Features and classification of matrix systems. Ways to restore the contact point.	2				
12.	Retraction of the gingival margin, methods, types of material. Isolation of the working field.	2				
13.	Endodontic treatment. Stages of work. Peculiarities of tooth cavity opening in incisors, canines, premolars and molars.		2			
14.	Mechanical treatment of root canals. Methods and techniques for performing endodontic manipulations in a passable root canal. Formation of the apical ledge		2			
15.	Examination of a patient in the orthopedic department Disinfection and sterilization in the clinic of orthopedic dentistry		2			
16.	Metal alloys (fusible, chromium-nickel and chrome-cobalt alloys, alloys of gold 900 and 750, titanium, silver and palladium). Auxiliary metals and alloys. Molding materials for casting.		2			
17.	Medical preparation of the root canal. Classification of drugs for medical treatment of the root canal		2			
18.	The structure of the dentition. Occlusion, articulation. Types of bite Biomechanics of the lower jaw.		2			
19.	Glass ionomer cements. Materials for fixation of non-removable prostheses. Indications for the choice of cement for fixation of fixed prostheses		2			
20.	Dental porcelain, composition, properties, application		2			
21.	Anesthesia in dental practice. Types of local anesthesia.			2		

22.	The technique of local anesthesia in the upper jaw. Possible complications.			2		
23.	The technique of local anesthesia in the lower jaw. Possible complications.			2		
24.	Complications during and after tooth extraction. Prevention of complications. Wound healing after tooth extraction.			2		
25	Epidemiology of Dental Diseases				2	
26	Oral hygiene items. Teeth brushing methods. Standard method of brushing teeth. Controlled oral hygiene				2	
27	Principles and approaches of secondary prevention. Sanitation of the oral cavity and its role in the prevention of dental diseases. Medical examination of the population at the dentist. Dental education.				2	
28	The role and importance of fluorides in the prevention of caries. Mechanism of action. Systemic methods of fluoridation: indications, contraindications, efficiency.				2	
29	Cariogenic situation in the oral cavity				2	
30	Antenatal prevention of caries.					2
31	Local remedies for the prevention of dental caries. remineralizing therapy. Methods of deep fluorination.					2
<b>Total:</b>		<b>24</b>	<b>16</b>	<b>8</b>	<b>10</b>	<b>4</b>
<b>TOTAL (AH)</b>		<b>62</b>				

6.2.2 The thematic plan of laboratory practicum (if this type of classes is stipulated in the curriculum)  
In accordance with the Federal State Educational Standards, they are not provided.

### 6.2.3 Thematic plan of practical lessons

№	Name of the topics of practical lessons	Volume in AH				
		2 sem	3 sem	4 sem	5 sem	6 sem
1.	Dental office and its equipment. Ergonomics and safety engineering. Types of drills and tips. Dental instruments, rules and techniques of use.	4				
2	Embryogenesis of the tooth. Drawing.	4				
3	Histology of dental tissues. The structure of the enamel of permanent teeth. Modeling. Drawing.	4				
4	Histology of dental tissues. Histological structure of dentin and cementum. Modeling. Drawing.	4				
5	Anatomy of teeth. Features of the anatomical structure of permanent incisors, canines and premolars. Modeling. Drawing. The ABC of preparation.	4				

6	Anatomy of teeth. Features of the anatomical structure of the molars. Modeling. Drawing. The ABC of preparation.	4				
7	Caries. Classification of carious cavities. Principles of biological feasibility and preventive expansion. Stages of preparation of carious cavities. Features of the preparation of a carious cavity according to the 1st class of Black. Preparation on artificial and permanent teeth.	4				
8	Black class II cavities. Preparation features. Cavities MOD Preparation of Class II Black cavities on artificial and permanent teeth.	4				
9	Cavities III, IV, V class Black. Principles and stages of cavity preparation. Preparation of cavities on artificial and permanent teeth.	4				
10	Dental filling materials for insulating and medical pads. Composition, properties, indications for use. Method of preparation and imposition.	4				
11	Filling dental materials: cements. Composition, properties, indications for use. Method of mixing, filling.	4				
12	Composite filling materials (CFM). CFM classification. Composition, properties, indications for use. CFM of chemical curing, principles and stages of work.	4				
13	Light curing composite filling materials. Methodology and features of work. Types of polymerization lamps. Debonding. Polymerization stress, methods of its reduction.	4				
14	Adhesion, its types. Adhesive systems, classification stages of work. Modern adhesive protocol.	4				
15	Filling dental materials for permanent fillings. Amalgam. Composition, properties, indications for use. Method of preparation and filling. Materials for temporary fillings, properties, indications for use. Method of preparation and imposition.	4				
16	Final lesson	4				
17	Organization of the work of the orthopedic department. Basic and auxiliary equipment, tools and materials used in the clinic, dental laboratory and phantom class in the manufacture of prostheses and devices.	4				
18	Types of orthopedic structures. Classification. Anatomical features of the oral cavity that are important for prosthetics.	4				
19	Definition of "imprint" and "model". Classification of impression materials, requirements for them. Crystallizing materials for impressions and models. Demonstration of taking impressions and models. Demonstration of taking impressions and models.	4				
20	Elastic impression masses (alginate, silicone). Thermoplastic impression materials Demonstration of taking impressions and models.	4				
21	Basic acrylic plastics. Colorless base plastic. Demonstration of the preparation of plastic. Plastic teeth fabrication.	4				
22	Technology of basic plastics. Types of porosity, aging of plastics, causes and methods for their prevention.	4				

23	Elastic plastics for bases. Self-hardening plastics. Polymerization of cold curing plastics.	4				
24	Final lesson. (2 hours)	2				
25	Endodontics. Morphological and functional complexes of the endodont (pulp-dental, pulp-periodontal). Structural features of crown cavities and root canals in permanent teeth. Topography, anatomy of coronal cavities and root canals. Drawing.		5			
26	Methods and features of opening cavities in incisors, canines. Goals and objectives pursued by the stage of opening the cavity of the tooth. Topography, anatomy of coronal cavities and root canals. Drawing. Preparation.		5			
27	Methods and features of opening cavities in premolars. Goals and objectives pursued by the stage of opening the cavity of the tooth. Topography, anatomy of coronal cavities and root canals. Drawing. Preparation.		5			
28	Methods and features of opening cavities in molars. Goals and objectives pursued by the stage of opening the cavity of the tooth. Topography, anatomy of coronal cavities and root canals. Drawing. Preparation.		5			
29	Tools for root canal treatment. ISO classification. Methods and techniques for using endodontic instruments. Drawing. Preparation.		5			
30	Stages of endodontic treatment. Goals and objectives of each stage. Mechanical preparation of root canals		5			
31	Medical treatment of root canals. Classification of drugs for root canal treatment. Composition		5			
32	Pulpitis. Concept. Classification. Vital methods of treatment of pulpitis (amputation)		5			
33	Devital methods of treatment of pulpitis. Method of devital extirpation		5			
34	Permanent filling materials for root fillings. Classification of materials for permanent filling of root canals. Composition, properties of materials. Root canal filling in incisors, canines, premolars and molars.		5			
35	Temporary filling. Indications. Contraindications Stages of work. Methods and techniques for performing all manipulations. Temporary filling materials for root canal filling. Composition, properties of materials. Root canal filling in incisors, canines, premolars and molars.		5			
36	Permanent filling of root canals. Classification. Sealing methods: paste filling, single pin method, lateral condensation method, vertical condensation method, hot gutta-percha filling methods. Technique of performing manipulations, features of carrying out, possible complications, disadvantages of methods. The choice of filling material depending on the filling method. Root canal filling in incisors, canines, premolars and molars.		5			

37	Mistakes in endodontic manipulations, their prevention and elimination. Perforation closure. Unsealing the root canal, stages, methods and techniques for performing all manipulations. Root canal filling in incisors, canines, premolars and molars with various filling materials followed by permanent filling.		<b>5</b>			
38	Features of permanent restoration after endodontic treatment of teeth. Planning, choice of restoration method, filling material. Practical development of post-endodontic restoration of teeth.		<b>5</b>			
39	15. Final lesson.		<b>5</b>			
40	Examination of the patient in the clinic of orthopedic dentistry. Medical documentation. Modeling of teeth from wax. Modeling materials (waxes, wax compositions). Wax for artificial crowns and bridges, arc prostheses, for inlays (lavax). Sticky wax. Modeling of teeth from wax		<b>5</b>			
41	Chrome-nickel and chrome-cobalt alloys used in prosthetic dentistry. Solder for soldering parts of prostheses. Demonstration of prostheses. Preparing a incisor for a stamped metal crown on a phantom. Modeling of teeth from wax.		5			
42	Alloys of gold 900 and 750 used in orthopedic dentistry. Solder for soldering parts of gold alloy prostheses. Determination of gold sample. Refining.		5			
43	Alloys of fusible metals (tin, copper, bismuth) and their application in orthopedic dentistry. Preparing a canine for a stamped metal crown on a phantom. Modeling of teeth from wax. Alloys based on silver and palladium. Composition, physical and chemical properties. Preparation of the premolar and molar for a stamped metal crown on a phantom. Modeling of teeth from wax.		<b>5</b>			
44	Molding materials for casting dental alloys. Technology of refractory masses. Preparation of the incisor and canine for combined and plastic crowns on the phantom. Modeling of teeth from wax.		<b>5</b>			
45	The concept of occlusion, articulation. Types of bites. Occluders and articulators. Modeling of teeth from wax.		<b>5</b>			
46	Anatomy of the chewing apparatus. Biomechanics of the chewing apparatus. Preparation of the premolar and molar for combined and plastic crowns on the phantom.		<b>5</b>			
48	Dental porcelain. Components of porcelain masses. Properties of dental porcelain. Final lesson.		<b>5</b>			
49	Sections of surgical dentistry, goals, objectives and problems in the practice of surgical dentistry. Organization of surgical dental care. Asepsis and antiseptics in the conditions of surgical dental reception. Examination of a dental patient.			<b>5</b>		
50	Anesthesia in dentistry. Local anesthetics used in dentistry. Vasoconstrictors. Composition of carpool anesthetics. Features of anesthesia in the area of inflammation. Premedication			<b>5</b>		
51	"Pain relief during surgical interventions on the upper jaw. Innervation of the upper jaw. Topography of the maxillary nerve. Technique conduction and infiltration anesthesia on the upper jaws (on the phantom). "			<b>5</b>		

52	Anesthesia during surgical interventions on the lower jaw. Topography of the mandibular nerve. Technique for conduction and infiltration anesthesia on the lower jaw (on a phantom).			5		
53	Tooth extraction as a surgical intervention. Indications and contraindications for tooth extraction. The technique of removing roots and teeth in the upper jaw. Instruments: types of forceps, their purpose.			5		
54	The technique of removing roots and teeth in the lower jaw. The technique of removing the third lower molar with its incomplete eruption and incorrect location. Treatment of the wound after tooth extraction.			5		
55	General complications arising from local anesthesia, treatment, prevention. Complications during tooth extraction surgery. Complications after tooth extraction. Final lesson.			5		
56	Device, tasks and principles of work of the preventive department. Dental prevention office. Dental examination: taking an anamnesis, recording the dental formula, examining the vestibule and oral cavity/ Comparative assessment of healthy and affected hard tissues of the tooth.				5	
57	Indicators characterizing the incidence of caries in the population: prevalence, intensity (indices DFM (t), DFM (s), increase in intensity. caries reduction. Evaluation of caries activity according to the WHO methodology. The concept of permeability, mineralization, demineralization, remineralization. Focal demineralization, clinical and pathomorphological picture, methods of detection.				5	
58	Superficial formations on the teeth, classification, the significance of these formations in the development of dental diseases. Methods for their detection. hygiene indices. Dyes for the determination of plaque. Practical development of oral hygiene indices according to Fedorov-Volodkina, Green-Vermillion, oral hygiene efficiency index (PHP), plaque index Silness-Loe.				5	
59	Hygiene items. Toothbrushes, caring for them. Floss. Toothpicks. Interdental stimulators, irrigators, interdental brushes, tongue cleaners. Teeth brushing methods. Controlled brushing of teeth and methods of its implementation. Practical mastery of the standard method of brushing teeth. Methods of individual control of self-brushing teeth.				5	
60	Oral hygiene products. Classification, properties, indications for use. The composition of therapeutic and prophylactic toothpastes. Liquid oral hygiene products, classification, their purpose.				5	
61	Sanitation of the oral cavity. Medical examination. Organization principles.				5	
62	Requirements for the level of knowledge and practical skills in dental care in children and adults. Methods of health education. Group prevention of dental caries and periodontal diseases Final testing.				5	

63	Cariogenic situation in the oral cavity and methods for its detection. General and local risk factors for caries. Structure and properties of enamel after teething. Evaluation of tooth resistance to caries according to the degree of enamel acid resistance. Dependence of tooth resistance to caries on the properties of mixed saliva (amount, viscosity, pH, buffer capacity, etc.). KOSRE test. Stefan curve, assessment of cariogenicity of dental plaque (express method according to V.A. Rummyantsev, V.K. Leontiev). Determination of the resistance of teeth to caries by the degree of activity of the carious process. Hygienic index in the prognosis of carious lesions of the teeth.					<b>5</b>
64	The role and importance of fluorides in the body. The use of fluorides for the prevention of dental caries, the mechanism of action. Indications, contraindications, effectiveness of systemic methods. Fluoridation of drinking water, milk, salt.					<b>5</b>
65	Exogenous drug prevention of dental caries. Teeth coating technique with fluorine varnish. Practical mastery of the methods of topical application of fluorides: coating of teeth with fluorine varnish, gels, rinses, applications					<b>5</b>
66	Endogenous drug prevention of caries. The role of the general condition of a pregnant woman and child in the development of a cariogenic situation. Appointment of anticariogenic drugs inside. Fluorosis prevention of fluorosis. Enamel hypoplasia. Risk factors for systemic and local hypoplasia and their elimination.					<b>5</b>
67	Identification of risk factors in the occurrence of periodontal diseases. Mastering the methods and means of individual prevention of periodontal diseases. Theoretical and practical development of periodontal indices CPITN, CPI, PMA. Technique of detection and removal of dental deposits. Methods and means of professional oral hygiene. Practical development of methods for removing dental plaque.					<b>5</b>
68	Test (3 hours)					<b>3</b>
<b>TOTAL (AH)</b>		<b>94</b>	<b>114</b>	<b>36</b>	<b>34</b>	<b>28</b>
<b>TOTAL(total - AH)</b>		<b>306</b>				

#### 6.2.4. Thematic plan of seminar

In accordance with the Federal State Educational Standards, they are not provided.

#### 6.2.5 Types of topics of student's individual work (SIW)

№	Types of topics of SIW	Volume in AH	
		Semester	AH

1	<p>Working with lecture video material for self-study:</p> <ol style="list-style-type: none"> <li>1. Stages of development of therapeutic dentistry. The contribution of scientists to the development of therapeutic dentistry.</li> <li>2. Elastic impression materials. Composition, properties, indications for use.</li> <li>3. Caries. Classification of carious cavities. Principles and stages of preparation of carious cavities</li> <li>4. Filling materials for insulating and medical pads. Composition, properties, indications for use.</li> <li>5. Composite filling materials. Classification, composition, properties, indications for use.</li> <li>6. Composite filling materials of chemical curing. Method and features of filling. Indications for use.</li> <li>7. Filling materials for permanent fillings. Amalgam. Composition, properties, indications for use. Method of preparation and filling.</li> </ol> <p>Work with lecture material, providing for the study of lecture notes and educational literature;</p> <ul style="list-style-type: none"> <li>- search (selection) and review of literature and electronic sources of information on the problem, writing an abstract (essay, report, scientific article) on a given problem;</li> <li>-doing homework for the lesson;</li> <li>– performing home control work (solving problems, doing exercises);</li> <li>– study of the material submitted for independent study (separate topics, paragraphs);</li> <li>–practicum on academic discipline using software;</li> <li>– preparation for practical exercises;</li> <li>– preparation for the control work;</li> <li>- preparation for the test on the topics:</li> </ul> <p>Organizational structure of dental care  Prevention of dental diseases  Methods of examination of the patient. Dental and medical documentation. Sterilization of dental instruments.</p>	2	80
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2	<p>Work with lecture material, providing for the study of lecture notes and educational literature;</p> <ul style="list-style-type: none"> <li>- search (selection) and review of literature and electronic sources of information on the problem, writing an abstract (essay, report, scientific article) on a given problem;</li> <li>-doing homework for the lesson;</li> <li>– performing home control work (solving problems, doing exercises);</li> <li>– study of the material submitted for independent study (separate topics, paragraphs);</li> <li>–practicum on academic discipline using software;</li> <li>– preparation for practical exercises;</li> <li>– preparation for the control work;</li> <li>- preparation for the test on the topic “Dental caries. Treatment of dental caries.</li> </ul>	3	86
3	<p>Work with lecture material, providing for the study of lecture notes and educational literature;</p> <ul style="list-style-type: none"> <li>- search (selection) and review of literature and electronic sources of information on the problem, writing an abstract (essay, report, scientific article) on a given problem;</li> <li>-doing homework for the lesson;</li> <li>– performing home control work (solving problems, doing exercises);</li> <li>– study of the material submitted for independent study (separate topics, paragraphs);</li> <li>–practicum on academic discipline using software;</li> <li>– preparation for practical exercises;</li> <li>– preparation for the control work;</li> <li>- preparation for the test on the choice of the method of anesthesia in various clinical situations, complex tooth extraction.</li> </ul>	4	28

4	<p>Work with lecture material, providing for the study of lecture notes and educational literature;</p> <ul style="list-style-type: none"> <li>- search (selection) and review of literature and electronic sources of information on the problem, writing an abstract (essay, report, scientific article) on a given problem;</li> <li>-doing homework for the lesson;</li> <li>– performing home control work (solving problems, doing exercises);</li> <li>– study of the material submitted for independent study (separate topics, paragraphs);</li> <li>–practicum on academic discipline using software;</li> <li>– preparation for practical exercises;</li> <li>– preparation for the control work;</li> <li>- preparation for participation in classes in an interactive form - role-playing games;</li> <li>- work with electronic educational resources posted on the educational portal of the SDO Nizhny State Medical Academy;</li> <li>- preparation for the test on the topics: Tooth deposits. Items and means of oral hygiene. Oral hygiene. Medical examination and education</li> </ul>	5	28
5	<p>Work with lecture material, providing for the study of lecture notes and educational literature;</p> <ul style="list-style-type: none"> <li>- search (selection) and review of literature and electronic sources of information on the problem, writing an abstract (essay, report, scientific article) on a given problem;</li> <li>-doing homework for the lesson;</li> <li>– performing home control work (solving problems, doing exercises);</li> <li>– study of the material submitted for independent study (separate topics, paragraphs);</li> <li>- preparation for participation in classes in an interactive form - role-playing games</li> <li>– preparation for practical exercises;</li> <li>– preparation for the control work;</li> <li>- preparation of term paper;</li> <li>- preparation for the test on the topics: Cariogenic situation and methods for its detection Fluoride prophylaxis in dentistry Antenatal prophylaxis Modern methods of remotherapy Prevention of dental anomalies</li> </ul>	6	22
<b>TOTAL (total - 244 AH)</b>			

## 7. Types of assessment formats for ongoing monitoring and mid0term assessment

№ semester	Types of control	Name of section of academic discipline	Assessment formats		
			Types	Number of test questions	Number of test task options
2,3, 4,5, 6	<i>Current monitoring control SIW</i>	Control of the mastering the topic	-Test -Individual survey - Written test work -Situational tasks	10	10
				1	200
2,3, 4,5, 6	<i>Current monitoring control knowledge</i>	Control of the mastering the topic	-Test -Individual survey - Written test work -Situational tasks -Educational practice	15	10
				1	300
4	<i>Mid-term assessment exam</i>	Control of the mastering the topic	-Control questions on the ticket (Interview)	3	50
6	<i>Mid-term assessment - pass</i>	Control of the mastering the topic	-Control questions on the ticket (Interview)	45	15
				2	40

## 8. Educational, methodological and information support for mastering the academic discipline (printed, electronic publications, Internet and other network resources).

### 8.1 Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Propaedeutic dentistry: textbook / E. A. Bazikyan, L. V. Volchkova, G. I. Lukina, K. I. Golovin, D. A. Seleznev; ed. E. A. Bazikyan, O. O. Yanushkevich. - 2nd ed., add. and reworked. - M. : GEOTAR-Media, 2013. - 640 p. : ill.	3	108
2	Orthopedic dentistry. Phantom course: textbook / E. N. Zhulev, N. V. Kuryakina, N. E. Mitin; ed. E. N. Zhulev. - M. : Medical Information Agency, 2011. - 720 p. : ill. tv.	5	98
3	Development and structure of the tooth: textbook / E. V. Kondyurova, L. N. Kazarina, L. V. Vdovina; Ed. organization Nizhny Novgorod State Medical Academy. - N. Novgorod: NizhGMA, 2011. - 142 p. : ill. soft	6	117

4	Propaedeutics of surgical dentistry [Electronic resource]: textbook / M. M. Solovyov. – 5th ed. (electron.). - M. : MEDpress-inform, 2016. - 281 p. – Access mode: <a href="http://books-up.ru/product/77795">http://books-up.ru/product/77795</a> . - Free access from the Academy's computers. Access from other IP addresses requires a login and password (available to registered users at the EBS Academy). - Zagl. with title. screen. ISBN 978-5-00030-034-3.	3	1 electronic variant
5	Local anesthesia in dentistry: textbook / ed. E. A. Bazikyan. - M. : GEOTAR-Media, 2012. - 144 p. : ill.	2	50
6	Surface formations on the teeth: clinic, diagnostics, methods of removal [Electronic resource]: study guide / O. O. Gushchina, L. N. Kazarina. – Electron. Dan. (1 Mb). - Nizhny Novgorod: Publishing house of NizhGMA, 2017. - Access mode: <a href="http://10.10.35.5/view.php?fDocumentId=7037">http://10.10.35.5/view.php?fDocumentId=7037</a> . - Zagl. with title. screen.	5	1 electronic variant
7	Preventive dentistry: textbook / E. M. Kuzmina, O. O. Yanushkevich. - M. : Practical medicine, 2017. - 544 p. : ill.	3	40

## 8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Surgical dentistry: textbook / ed. T. G. Robustova. - 3rd ed., revised. and additional - M. : Medicine, 2003. - 504 p. : ill. tv. - (Educational literature for students of dental faculties of medical universities). - Uch. kart. - 50 copies.	1	69
2	Surgical dentistry and maxillofacial surgery: national guidelines + 1 electron. disc (CD-Rom) / ed. A. A. Kulakov, T. G. Robustova, A. I. Nerobeev; Ed. organization Dental Association of Russia. - M. : GEOTAR-Media, 2010. - 928 p. : ill. tv. – (National guidelines)	1	1
3	Practical Therapeutic Dentistry [Electronic resource]: textbook / A. I. Nikolaev, L. M. Tsepov. – 9th ed. (electron.). - M. : MEDpress-inform, 2016. - 929 p. – Access mode: <a href="http://books-up.ru/product/77870">http://books-up.ru/product/77870</a> . - Free access from the Academy's computers. Access from other IP addresses requires a login and password (available to registered users at the EBS Academy). - Zagl. with title. screen.	3	1 Electronic version
5	Orthopedic dentistry. Applied materials science: a textbook for medical schools / V. N. Trezubov, L. M. Mishnev, E. N. Zhulev, V. V. Trezubov; ed. V. N. Trezubov. - 5th ed., Rev. and additional - M. : MEDpress-inform, 2011. - 384 p. : ill. tv.	2	8
6	Histology, cytology and embryology: a brief atlas / S. I. Yushkantseva, V. L. Bykov. - 2nd ed., revised. and additional - St. Petersburg. : P-2, 2007. - 120 p. : ill. soft - Account cards. N1735 Training Ab. N1 -511 copies.	1	508
7	Tests for the prevention of dental diseases / comp. L. N. Kazarina, L. V. Vdovina, O. O. Gushchina; Ed. organization Nizhny Novgorod State Medical Academy. - N. Novgorod: Publishing House of NizhGMA, 2009. - 132 p. : soft	5	103

8	"Features of root canal filling	3	1 Electronic version
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### 8.3. Electronic educational resources for teaching academic subjects:

#### 8.3.1. Internal Electronic Library System of the University (IELSU)

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Internal electronic library system (VEBS) of PIMU	Works of PIMU employees (textbooks, study guides, collections of problems, methodological manuals, laboratory works, monographs, etc.)	Access by individual login and password from any computer and mobile device	Unlimited

#### 8.3.2. Electronic educational resources acquired by the university

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1.	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic library of a technical university (ELS "Student Consultant"	"Textbooks and teaching aids for higher medical and pharmaceutical education.	Access by individual login and password from any computer and mobile device	Not limited
2.	Database "Doctor's Consultant. Electronic Medical Library»	"	Access by individual login and password from any computer and mobile device	Not limited
3.	Database "Electronic Library System "Bukap"	National guidelines, clinical guidelines, textbooks, monographs, atlases, reference books, etc.	"Access by individual login and password from any computer and mobile device.	Not limited
4.	Electronic periodicals in the database "SCIENTIFIC ELECTRONIC LIBRARY eLIBRARY"	Educational and scientific medical literature of Russian publishing houses, incl. translated editions. The collection of subscription publications is formed point by point.	From university computers - access is automatic."	Not limited

#### 8.3.3 Open access resources

№	Name of the electronic resource	Short characteristic (content)	Access conditions
1	Scientific electronic library of open access CyberLeninka		Opened

2	Russian State Library (RSL)		Opened
3	"Scientific institutions and government structures		Opened
4	<a href="http://www.minzdravsoc.ru/">http://www.minzdravsoc.ru/</a>		Opened

## 9. Material and technical support for mastering an academic discipline.

### 9.1. List of premises for classroom activities for the discipline.

1. Two dental offices at the department with dental units for mastering the list of necessary manual skills.
2. Three phantom rooms equipped with phantoms, portable machines, micromotors, equipped with means for viewing educational videos, tables, diagrams, models, simulators, posters, a multimedia projector and a screen
3. X-ray room
4. Sterilization

### 9.2 List of equipment for classroom activities for the discipline

#### Multimedia complex:

A set of electronic presentations, a screen, a projector, a laptop, a TV, a video camera, a slidescope, a VCR, a PC, video and DVD players, monitors, sets of slides, tables / multimedia visual materials in various sections of the discipline, videos, boards, etc.

#### Tables and posters:

Embryogenesis

Classification of caries.

Classification of pulpitis.

Clinical dental formula of primary occlusion.

Clinical dental formula of permanent occlusion.

Timing of teething in children.

Endodontics.

Rules and stages of preparation of carious cavities.

The structure of enamel.

The structure of dentin.

The structure of cement.

Artistic restoration of teeth grades 1-6 Black.

Endodontic manipulations in difficult and impassable, previously sealed (with pastes, gutta-percha) root canals.

Anatomy of teeth

Mechanism of action of local anesthetics

Comparative characteristics of modern anesthetics

Types of anesthesia in the upper and lower jaw

Hygiene Indices

Periodontal indices

Clinical dental formula of primary occlusion.

Clinical dental formula of permanent occlusion.

Timing of teething in children.

Determination of the intensity and prevalence of dental caries.

Definition of hygiene indices.

Determination of periodontal indices.

Teeth brushing methods.

#### Presentations, transparencies, albums, videos:

Caries and its complications (pulpitis, periodontitis)

Methods of examination of the patient in the clinic of therapeutic dentistry.

High technologies in the practice of dentistry.

Anesthesia in the practice of therapeutic dentistry

TVs and VCRs.

High technologies in the practice of therapeutic dentistry (cofferdam, gutta-percha, Thermafil, Ribbond, fiberglass pins, etc.)

Prevention of caries.

Endogenous drug prevention

Tooth sealing

Professional oral hygiene

Periodontal diseases (gingivitis, periodontitis, periodontal disease, idiopathic diseases).

Non-carious lesions of the teeth.

Methods of examination of the patient in the clinic of therapeutic dentistry.

High technologies in the practice of dentistry.

TVs and VCRs.

Dental instruments and materials:

Dental tweezers, periodontal probes, dental probes, mirrors, excavators, trowels, pluggers, matrix holders, matrices, tips, burs, cutters, polishers, rubber bands and brushes in stock.

Endodontic instruments

Dental handpieces - turbine, for micromotor

Impression trays, mixing bowls, spatula

Articulator, occluders

Forceps for extraction of teeth of the upper and lower jaws, elevators, separators

Carpool syringes, needles

Dental filling materials for filling root canals and carious cavities.

Orthopedic Dental Materials

Carpool anesthetics

Dental tweezers, periodontal probes, dental probes, mirrors, excavators, trowels, pluggers, matrix holders, matrices, tips, burs, polishers, gums and brushes in assortment, ultrasonic nozzles, tips for AIR-FLOW.

Dental equipment:

Dental units (Azimuth, Dabi Atlant).

Chair of the dentist.

Assistant's chair.

Dentist's table.

bactericidal lamp.

Negatoscope.

Apex locator.

Thermafil system, equipment for three-dimensional sealing with gutta-percha

Ultrasound MiniPieison.

Assistance.

Training dummies:

Teeth with carious cavities of 1-6 Black classes.

head phantoms.

Phantom of oral hygiene.

Phantom jaws and toothbrushes for rational oral hygiene.

Human teeth are artificial and natural.

Phantoms for endodontic manipulations.

Phantom jaws.

Training stands:

Information (announcements).

Plans of lectures and practical exercises, lists of recommended basic and additional literature for study.

Oral hygiene, hygiene products.

Prevention of dental caries and periodontal disease

### **9.3. A set of licensed and freely distributed software, including domestic production**

<b>Item no.</b>	<b>Software</b>	<b>number of licenses</b>	<b>Type of software</b>	<b>Manufacturer</b>	<b>Number in the unified register of Russian software</b>	<b>Contract No. and date</b>
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

**10. List of changes to the working program (to be filled out by the template)**

Federal State Budgetary Educational Institution of Higher Education  
"Privolzhsky Research Medical University"  
Ministry of Health of the Russian Federation  
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of  
**PROPADEUTIC DENTISTRY**

**CHANGE REGISTRATION SHEET**

working program for the academic discipline  
**PROPADEUTICS AND PREVENTION DENTAL DISEASES**

Field of study / specialty / scientific specialty: \_\_\_\_\_  
(code, name)

Training profile: \_\_\_\_\_  
(name) - for master's degree programs

Mode of study: \_\_\_\_\_  
full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting  
Protocol No. \_\_\_\_ of \_\_\_\_\_ 20\_\_

Head of the Department

\_\_\_\_\_  
department name, academic title

\_\_\_\_\_  
signature

\_\_\_\_\_  
print name