

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 PROGRAMM
Elective discipline

Name of the discipline (according to the working curriculum): **DIAGNOSTIC CRITERIA
IN THERAPEUTIC DENTISTRY**

Specialty: **31.05.03 DENTISTRY**

Qualification: **DENTIST**

Department: **THERAPEUTIC DENTISTRY**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.03 Dentistry approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.

Program Developers:

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Reviewers:

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2. Sahakyan M.Y., Doctor of Medical Sciences, Associate Professor, Head. Department of Orthopedic Dentistry and Orthodontics , Federal State Budgetary Educational Institution of Higher Education "PIMU" of the Ministry of Health of the Russian Federation. ;

The program was reviewed and approved at a meeting of the Department of Therapeutic Dentistry Minutes No. 9 dated April 13, 2021

Head of the Department of Therapeutic Dentistry, MD, Associate Professor

O.A. Uspenskaya _____



April 13, 2021

AGREED

Deputy Head of EMA ph.d. of biology _____ Lovtsova L.V.

(signature)

April 13, 2021

1. Goals and objectives of mastering the discipline

Therapeutic dentistry is the leading among dental disciplines, since the main place in it is occupied by the problems of not only treatment, but also the prevention of dental caries, periodontal diseases and oral mucosa. There is a close relationship between restorative dentistry and other clinical disciplines, restorative dentistry is the most important preventive section among all other profiles of dentistry - surgical and orthopedic.

The therapeutic section of dentistry combines a number of diseases of the oral cavity (diseases of the teeth and periodontal tissues, pathology of the oral mucosa and tongue), which are subject to mainly conservative, and often complex etiopathogenetic treatment with the participation of dental surgeons, orthopedists, endocrinologists, gastroenterologists and other specialists.

Practical skills acquired at the Department of Therapeutic Dentistry are the basis for all subsequent creative activities of a dentist.

1.1. The purpose of teaching an elective discipline

The program of elective disciplines is aimed at an in-depth study of therapeutic dentistry - the leading among dental disciplines, since the main place in it is occupied by the problems of not only treatment, but also the prevention of major dental diseases.

The purpose of teaching therapeutic dentistry in elective disciplines is to study in depth the causes, mechanisms of development, modern methods of diagnosis and treatment of diseases of the teeth, periodontium and oral mucosa.

Manual and theoretical knowledge acquired in the preclinical course allows you to fully master modern methods of diagnosing dental diseases, the principles of differential diagnosis and learn how to apply the knowledge gained in practice.

For better assimilation of the material, the educational process is as close as possible to the real work environment in the clinic, which enables students to better master the practical side of the matter. The topics studied are worked out in two stages: theoretically, then practically in the dental office, which helps to reflect the essence of the topic being studied from different positions. This tactic makes it possible to better meet the requirements of bringing teaching closer to practical medicine, to ensure the specific nature of the pedagogical process. Practical classes are held in direct work with patients, which is important in acquiring manual skills and of great educational value - ethics, aesthetics, deontology.

1.2. The tasks of studying the discipline of choice

The main task is to develop students' knowledge about modern methods for diagnosing various diseases of hard dental tissues, periodontal diseases and oral mucosa, used in the practice of a dentist.

In the practice of therapeutic dentistry, the student must master the methods of diagnosing diseases of hard tissues of the teeth, including: visual examination, probing, percussion, comparative percussion, thermometry, electroodontometry, reading x-ray images, determining the resistance of hard tissues of the tooth. To study modern methods of early diagnosis of caries, for example: the transillumination method, to study the devices used for diagnostics in dentistry. In addition, to study the methods of diagnosing periodontal diseases. To develop the skills of determining hygiene indices and periodontal indices, the degree of tooth mobility, the severity of the course of the disease, and reading radiographs. When studying methods for diagnosing diseases of the mucous membrane, the student must know the methods of examining the oral mucosa, methods of laboratory diagnostics, and the principles of oncological alertness.

Students master modern methods of diagnosing diseases of hard tissues of the tooth. During practical classes, a demonstration or presentation of additional examination methods used in the practice of a dentist is carried out. Students acquire the skills of differential diagnosis, master additional examination methods. Having learned to analyze radiographs, the student gets the opportunity to confirm the diagnosis, evaluate the quality of endodontic treatment, filling canals and carious cavities.

Mastering the skills of determining tooth mobility, hygiene index, periodontal pocket depth, the presence of supra- and subgingival tartar, P MA index , PI, Schiller-Pisarev, is achieved in practical classes and allows students to apply them in practice in the diagnosis of diseases during the learning process periodontal. The student must have the skills to read orthopantomograms, panoramic radiographs, sighting images. In the course of practical exercises, the methods of examining a dental patient, the criteria for differential diagnosis of dental diseases are worked out.

In the lecture course and in practical classes, much attention is paid to deontological principles, the formation of the worldview of a generalist doctor who is able to provide qualified dental care to children, pre-conscripts, pregnant women, and people suffering from chronic diseases.

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

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

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

Willingness to participate in scientific research, analysis and public presentation of medical information based on evidence-based medicine and to participate in the introduction of new methods and techniques aimed at protecting public health and reducing dental morbidity (PC-12) ;

With the ability to determine the tactics of managing patients with various dental diseases in accordance with the Clinical recommendations and other regulatory documents of the Ministry of Health of the Russian Federation on an outpatient basis and in a day hospital, taking into account the age of the patient (PC-7) ;

Willingness to collect and analyze complaints and other information from the patient (relatives / legal representatives), his medical history, interpretation of examination results, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of Medical Care, Clinical Recommendations on the provision of medical care, etc.) (PC -6).

As a result of studying the discipline

STUDENT SHOULD KNOW:

- definition, classification, etiology and pathogenesis of diseases of hard dental tissues such as dental caries, non-carious lesions, diseases of the dental pulp, periodontitis;
- definition, classification, etiology and pathogenesis of periodontal diseases;
- definition, classification, etiology and pathogenesis of diseases of the oral mucosa and precancerous diseases;
- the main methods of diagnosing diseases of hard tissues of teeth;
- the main methods of diagnosing periodontal diseases;
- the main methods for diagnosing diseases of the oral mucosa;
- modern diagnostic methods used in therapeutic dentistry;
- the main criteria for the differential diagnosis of diseases.

STUDENT SHOULD BE ABLE TO:

- to conduct examinations of patients with the aim of diagnosing dental diseases;
- determine the index of oral hygiene according to Fedorov - Volodkina, according to Green-Vermillion , KPU;
- read and describe radiographs;

- determine the degree of tooth mobility (I, II , III);
- determine the type of plaque on the teeth, tartar, its color, consistency;
- determine the state of the anatomical areas of the gums (free and attached gums);
- determine the depth of the pockets with a graduated probe;
- to determine the presence of subgingival tartar, discharge from pockets;
- carry out drying and vital staining of enamel in order to identify carious spots;
- to carry out staining of dental plaque with the subsequent determination of hygiene indices by various methods;
- to carry out differential diagnostics of various forms of caries and non-carious lesions;
- to carry out the method of thermometry;
- to carry out the technique of electroodontometry;
- perform percussion, comparative percussion of the teeth, palpation of the transitional fold, soft tissues;
- to carry out differential diagnostics between diseases of the dental pulp and periodontitis;
- to carry out differential diagnostics between periodontal diseases;
- to carry out differential diagnostics between diseases of the oral mucosa;
- correctly draw up a medical history and other medical documentation (referrals to other departments, etc.);

STUDENT SHOULD OWN:

- examination of a dental patient;
- methods for diagnosing non-carious lesions of hard tissues;
- modern methods of diagnosing early caries;
- methods for diagnosing dental caries;
- methods for diagnosing complicated forms of caries;
- Skills in reading radiographs;
- Methods for diagnosing periodontal diseases;
- methods for diagnosing diseases of the oral mucosa;
- methods for diagnosing precancerous diseases of the oral cavity;
- rules for filling out medical documentation.

To fulfill this provision

The teacher sets himself the following tasks:

1. By his personal example, demeanor, appearance, technique of examination and communication with the patient - to demonstrate to the student the basic provisions that must be observed in communicating with the patient, the ability to get in touch with him.
2. Demonstrate in practice a sample of a consistent methodical examination of the patient, to the maximum extent possible to show the symptoms of a particular disease.
3. Actively involve students in conversations with patients, in individual stages and moments of patient examination (palpation, percussion, probing, identification of various symptoms) and thereby facilitate the first independent steps, help overcome the "barrier" in communicating with patients.
4. Analyzing the data obtained during the collection of anamnesis and objective data, give an example of clinical thinking at the patient's chair.
5. Involve students in primary preventive measures to reduce dental diseases, as well as in conducting health education work (issuing health bulletins, brochures, writing lectures and talks on topical dental topics for patients).
6. The study of the disease of hard tissues of the tooth, pulp, periodontal, periodontal and oral mucosa is accompanied by a demonstration of patients, analysis of the anamnesis, etiology

and course of the disease, the treatment of pathology is complex and local, focusing on modern aspects in the practice of treating a particular disease.

The practical orientation of the classes is realized by involving students in direct work with patients, which contributes to the fulfillment of the main task: to teach students not only to know, but also to be able to.

2. The place of discipline in the structure of the PEP HPE Academy

Therapeutic dentistry is a core discipline of paramount importance. The main task of the Department of Therapeutic Dentistry is the theoretical and practical training of a doctor who is able to solve the problems of diagnosing dental diseases. The general preventive orientation of the therapeutic dentist will be most fully disclosed to the student during the general medical examination of the population, which allows you to get acquainted with all dental diseases that form before eruption and after eruption, their local and general treatment, preventive manipulations, as well as recommendations and advice that will certainly accompany treatment. doctor's preventive work.

Based on the knowledge gained by the student at the general clinical, general biological, dental departments and the department of childhood diseases, to teach students the features of prevention, clinic, diagnosis and treatment of dental diseases. Prepare a doctor who is able to work in a medical institution after completing an internship.

2.1. The list of disciplines indicating the sections (topics), the assimilation of which by students is necessary for the study of this discipline:

2.1. The topic "Criteria for the diagnosis of dental diseases" is a section of therapeutic dentistry. Professional cycle (discipline of choice).

2.2. To study the discipline, knowledge, skills and abilities are necessary, formed by the previous disciplines:

2.2.1. *pathological physiology.*

Knowledge - Inflammation. Pathology of thermoregulation. Fever. Tumors. Allergy. Somatic diseases.

Skills - to identify the presence of inflammation, allergic reactions, tumors, general somatic diseases.

Skills - to determine the severity and severity of the process

2.2.2. *Pathological anatomy.*

Knowledge - Inflammation. Necrosis. Regeneration. Injuries.

Skills - to carry out diagnostic measures, probing, palpation, determining the viability of the pulp;

Skills - to distinguish various pathological processes from each other.

2.3. And the study of the discipline is necessary for the knowledge, skills and abilities formed by subsequent disciplines/practices:

Department of Therapeutic Dentistry - graduating department.

3. The results of mastering the discipline and indicators of the achievement of competencies.

The study of the discipline is aimed at developing the following universal (UK), general professional (OPK) and professional (PC) competencies among students:

№	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 students should:		
				know	be able to	possess
1.	UC-1	Able to carry out a critical analysis of problem situations based on a	IET 1.1 Knows: methods of critical analysis and evaluation of modern scientific	Principles and methods of search, analysis and synthesis of information.	Apply the principles and methods of searching, analyzing and	Practical skills of searching, analyzing and synthesizing information.

		systematic approach, develop an action strategy	<p>achievements; basic principles of critical analysis</p> <p>IUK 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience</p> <p>IUK 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems</p>		synthesizing information; Competently, logically, reasonably form their own judgments and assessments.	
2.	PC-6	<p>Able to send a patient to laboratory, instrumental examination, to a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are</p>	<p>IPC 6.1 Knows: The methodology for collecting complaints and anamnesis from patients (their legal representatives). Methods of physical examination of patients (examination, palpation, percussion, auscultation). The procedure for providing medical care to the adult population with dental diseases The procedure for providing medical care to children with dental diseases Clinical guidelines on the provision of medical care to patients with dental</p>	<p>pathological anatomy, clinic, differential diagnosis, methods of treatment and prevention of caries; classification, etiology, pathogenesis, pathological anatomy of pulpitis; clinic, differential diagnostics, methods of treatment of inflammatio</p>	<p>conduct examination of patients in order to diagnose caries, pulpitis, periodontitis, non-cariou lesions of the teeth, periodontal diseases and oral mucosa, take a smear for cytological, bacterioscop ic, bacteriologic al examination of the</p>	<p>methods of treatment of periodontal diseases; methods of treatment of diseases of the oral mucosa; methods of treatment of non-cariou lesions of hard dental tissues; methods of treatment of pulpitis, apical periodontitis and caries</p>

		<p>medical indications in accordance with the current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care</p>	<p>diseases Standards of Care IPK 6.2. Able to: interpret the results of examination, laboratory, instrumental, pathological and other studies, incl. diagnostic studies using modern technical means and digital technologies, in order to recognize the state or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of medical care, Clinical recommendations on the provision of medical care, etc.) Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care. IPC 6.3 Has practical experience: interpretation of the results of examination, laboratory, instrumental, pathoanatomical and other studies, incl. diagnostic studies using modern technical means and digital technologies, in order to recognize the state or establish the presence or absence of a dental disease,</p>	<p>n of the pulp; classification, etiology, pathogenesis, pathological anatomy of periodontitis; classification, etiology, pathogenesis, pathological anatomy of dental lesions of non-carious origin. Clinic, differential diagnosis, methods of prevention and treatment of lesions of hard tissues of the tooth of non-carious origin; clinic, differential diagnostics, methods of treatment of periodontal inflammation; classification, etiology, pathogenesis, pathological anatomy of diseases of the oral mucosa. Clinic, differential diagnosis, methods of prevention and treatment of diseases of the oral mucosa</p>	<p>contents of the pocket; perform palpation of regional lymph nodes of the facial skeleton, soft tissues of the face; palpation of the oral mucosa; determine the morphological elements of the lesion; probe deep ulcers, fistulas; take material for cytological examination (scrapings, prints); take material for direct microscopy for fungi, fusospirochetes; to carry out therapeutic measures in case of damage to the oral mucosa with arsenic salts; local treatment of lesions of the mucous membrane - removal of plaque, necrotic tissues, washing, irrigation, applications; inject drugs under the elements of the lesion; eliminate local traumatic factors determine the index of</p>	
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			<p>symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of medical care, Clinical recommendations on the provision of medical care, etc.)</p> <p>Development of a treatment plan for children and adults with dental diseases, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p>		<p>oral hygiene according to Fedorov - Volodkina, according to Green-Vermillion; describe radiographs; determine the degree of tooth mobility (I, II, III);</p>	
3	PC-7	<p>Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD)</p>	<p>IPC 7.1 Knows: Methods of drug and non-drug treatment, medical indications for the use of medical devices for dental diseases</p> <p>Groups of drugs used to provide medical care in the treatment of dental diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unexpected</p> <p>Principles, techniques and methods of anesthesia, selection of the type of local anesthesia in the treatment of dental</p>	<p>clinic, differential diagnostics, methods of treatment of inflammation of the pulp; periodontal, periodontal and diseases of the oral mucosa, classification, etiology, pathogenesis, pathological anatomy. Methods of treatment, indications, contraindications to methods of treatment.</p>	<p>choose and carry out a rational method of treating caries, pulpitis, periodontitis, periodontal diseases, oral mucosa, depending on the clinical manifestations and the state of the body as a whole; apply paste for pulp devitalization; open the cavities of all anatomical</p>	<p>methods of treatment of non-carious lesions of hard dental tissues; methods of preparation, mechanical and drug treatment and filling of carious cavities; methods of treatment of pulpitis, apical periodontitis and caries, methods of professional hygiene, removal of dental deposits, methods of treatment of diseases of the oral mucosa</p>

		<p>diseases</p> <p>Ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, that occurred during the examination or treatment of patients with diseases of the teeth, pulp, periodontium, periodontium, oral mucosa and lips</p> <p>Materials science, technologies, equipment and medical products used in dentistry</p> <p>Anatomy of the head, maxillofacial region, features of blood supply and innervation; the structure of the teeth; histology and embryology of the oral cavity and teeth, the main violations of embryogenesis</p> <p>IPK 7.2. Able to:</p> <p>Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of care</p> <p>Select and prescribe medicines, medical devices (including dental materials), dietary nutrition, medical and recreational regimen for the treatment of children and adults with dental diseases in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p> <p>Determine medical indications and</p>		<p>groups of teeth, prepare the crowns of intact teeth; remove the pulp after devitalization from the root canal; to carry out instrumental, drug treatment of the root canal, its drying, determining the degree of its patency; seal root canals with pastes and sealants without using and using pins; remove fragments of instruments from the root canal; carry out the removal of supra- and subgingival dental deposits, applications on the oral mucosa, blockade under the elements of the lesion take a smear for cytological, bacterioscopic, bacteriological examination of the contents of the pocket; perform palpation of regional lymph nodes of the facial skeleton,</p>	
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			<p>contraindications for local anesthesia</p> <p>techniques in the maxillofacial region</p> <p>Perform local anesthesia (application, infiltration, conduction) in children and adults with dental diseases</p> <p>Perform medical interventions, including therapeutic ones, in children and adults with dental diseases on an outpatient basis (excluding repeated endodontic treatment):</p> <ul style="list-style-type: none"> - individual training in oral and dental hygiene, selection of means and items for oral hygiene - controlled brushing of teeth - professional oral and dental hygiene - injection of drugs in the maxillofacial area - local application of remineralizing preparations in the area of the tooth - deep fluoridation of tooth enamel - sealing the fissure of the tooth with a sealant - professional teeth whitening - grinding of hard tissues of the tooth - restoration of a tooth with a filling using dental cements, chemical curing materials, photopolymers - restoration of teeth with a violation of the contact point - tooth restoration with filling material using anchor pins - application of devitalizing paste - pulpotomy (amputation of the coronal pulp) - pulp extirpation - instrumental and medical treatment of a 		<p>soft tissues of the face;</p> <p>palpation of the oral mucosa;</p> <p>determine the morphological elements of the lesion;</p> <p>probe deep ulcers, fistulas; take material for cytological examination (scrapings, prints);</p> <p>take material for direct microscopy for fungi, fusospirochetes;</p> <p>to carry out therapeutic measures in case of damage to the oral mucosa with arsenic salts;</p> <p>local treatment of lesions of the mucous membrane</p> <ul style="list-style-type: none"> - removal of plaque, necrotic tissues, washing, irrigation, applications; inject drugs under the elements of the lesion; eliminate local traumatic factors 	
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			<p>well-passable root canal</p> <ul style="list-style-type: none"> - temporary filling of the root canal with a drug - filling the root canal of the tooth with paste, gutta-percha pins - removal of supragingival and subgingival plaque in the tooth area (manual method) - ultrasonic removal of supragingival and subgingival dental deposits in the tooth area - closed curettage for periodontal diseases in the tooth area - application of a medical dressing for periodontal diseases in the area of one jaw - prescription of drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth <p>Perform medical interventions, including surgical ones, in children and adults with dental diseases on an outpatient basis (excluding the extraction of impacted and dystopic teeth):</p> <ul style="list-style-type: none"> - removal of a tooth - removal of a temporary tooth - permanent tooth extraction - opening and drainage of odontogenic abscess <p>Carry out phased sanitation of the oral cavity (excluding sanitation of the oral cavity in children under anesthesia)</p> <p>Perform medical interventions, including orthopedic, in adults with dental diseases on an outpatient basis</p>			
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			<p>(excluding prosthetics on dental implants, technologies for automated production of orthopedic structures, complete removable lamellar and clasp dentures):</p> <ul style="list-style-type: none"> - obtaining anatomical and functional impressions - restoration of a tooth with a crown - restoration of the integrity of the dentition with fixed bridges - prosthetics with partial removable lamellar dentures - correction of a removable orthopedic structure - removal of a fixed orthopedic structure <p>Interpret the results of X-ray studies of the maxillofacial region Conduct counseling for children and adults with diseases of the mucous membranes of the mouth and lips, determine indications for referral for a consultation with specialist doctors Prevent or eliminate donkey</p>			
4	PC-12	<p>Able to prepare the necessary medical documentation for the implementation of medical and social expertise in federal state institutions of medical and social expertise and refer a patient with a persistent impairment of body functions caused by diseases, the consequences of injuries or defects to medical and social expertise</p>	<p>IPC 12.1 Knows: Fundamentals of evidence-based medicine; the main sources of medical information based on evidence-based medicine; methods and forms of public presentation of medical information; basic principles of medical research</p> <p>IPC 12.2 Can: Search for medical information based on evidence-based medicine; interpret the data of scientific publications; critically evaluate modern methods of diagnosis, prevention</p>	<p>Scientific literature, educational and methodical publications, scientific journals and collections of works. Methods of medical statistics.</p>	<p>Analyze scientific literature and statistical reviews, conduct statistical analysis, present the resulting statistics, and interpret them.</p>	<p>Methods of medical statistics, determination of the Student's criterion, non-parametric methods, comparison of independent and dependent groups, methods for describing qualitative features.</p>

			<p>and treatment of diseases from the perspective of evidence-based medicine;</p> <p>justify your choice of methods for diagnosing, preventing and treating dental diseases;</p> <p>prepare a presentation for the public presentation of medical information, the results of scientific research</p> <p>IPC 12.3 Has practical experience:</p> <p>Development of algorithms for examination and treatment of adults and children with dental diseases in accordance with the principles of evidence-based medicine;</p> <p>search and interpretation of medical information based on evidence-based medicine;</p> <p>public presentation of medical information based on evidence-based medicine;</p> <p>partial participation in scientific research</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
1.	PC-6	Prevention of caries; non-carious lesions of hard tissues of teeth, periodontal diseases and oral mucosa.	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of caries treatment and prevention; pulpitis, periodontitis, non-carious lesions of hard dental tissues, periodontal diseases and oral mucosa
2.	PK-7, UC-1	Diagnosis of caries; pulpitis, periodontitis, non-carious lesions of hard dental tissues, periodontal diseases and oral mucosa.	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of caries treatment and prevention; pulpitis, periodontitis, non-carious lesions of hard dental tissues, periodontal diseases and oral mucosa
3.	PC-12	Differential diagnosis of caries; pulpitis, periodontitis, non-carious lesions, periodontal diseases and oral mucosa.	Modern methods for diagnosing dental diseases: caries, non-carious lesions, pulpitis, periodontitis, periodontal disease, oral mucosa.

5. Volume of discipline and types of educational work

The distribution of the labor intensity of the discipline and types of educational work by semesters:

Type of educational work	Labor intensity		Labor intensity (AH) in semesters		
	volume in credit units (CU)	volume in academic hours (AH)	6	7	10
classroom work, including	2	72			72
Lectures (L)		10			10
Laboratory workshops (LP)					
Practical exercises (PZ)					
Clinical Practice (CPP)		34			34
Seminars (C)					
Student Independent Work (SIW)		28			28
Intermediate certification					
test/exam (<i>specify type</i>)		<i>offset</i>			
TOTAL	2	72			72

6. The content of the discipline

6.1. Sections of the discipline and types of classes using DOT and EOS:

p / no.	semester number	Name of the discipline section	Types of educational work (in AH)							Evaluation tools	
			L	LP	PE	CP	S	IWS	Total		
1	10	Modern methods of diagnosing dental caries	2			7			5	9	Current testing. Testing practical skills. Writing a fragment of the medical history.
2	10	Differential diagnosis of complicated forms of caries: pulpitis, periodontitis.	2			7			5	9	Current testing. Oral individual survey. Writing a fragment of the case history.
3	10	Modern methods of diagnosing periodontal diseases	2			7			5	9	Current testing. Oral individual survey. Abstract. Solution of situational problems.
4	10	Differential diagnosis of diseases of the oral mucosa	2			6			5	8	Current testing. Oral individual survey. Abstract.
5	10	Diagnosis of				7			8	9	Current testing.

		precancerous diseases. Oncological alertness in the practice of a dentist.	2							Oral individual survey. Written test work. Writing a fragment of the medical history.
	ten	<i>offset</i>								
		TOTAL	10			34		28	72	

L- lectures

LP - laboratory workshop

PE - practical exercises

CP - clinical practice

S - seminars

IWS - independent work of the student

6.2. Thematic plan of lectures using DOT and EOS:

No№ p/n	Name of lecture topics	Semester 6	Semester 7	Semester 10
1.	Dental caries. Cariogenic situation in the oral cavity, methods for its detection and elimination. classification of caries. Etiopathogenetic rationale for the treatment and prevention of dental caries. Exogenous and endogenous prevention. Modern methods of treatment and prevention of caries. Modern etiopathogenetic methods and methods of restoration of permanent teeth with modern filling materials.			2
2.	Pulpitis. Periodontitis. Classification, clinic, diagnostics, differential diagnostics. Modern methods of treatment. Modern etiopathogenetic methods and methods of restoration of permanent teeth subjected to primary and repeated endodontic treatment using modern filling materials.			2
3.	Periodontal diseases: Gingivitis (catarrhal, hypertrophic, erosive). Periodontitis. Classification, clinic, diagnostics, differential diagnostics. Modern methods of treatment. Modern etiopathogenetic methods and methods of prevention			2
4.	Periodontal diseases: Periodontitis. Idiopathic periodontal disease. Classification, clinic, diagnostics, differential diagnostics. Modern methods of treatment. Modern etiopathogenetic methods and methods of prevention.			2
5.	Tactics of a doctor in diseases of the oral mucosa. Modern methods of treatment and diagnosis of all types of diseases of the oral mucosa. Clinical cases in the disease of oral mucosa.			2

total				10

6.3. Distribution of laboratory workshops by semesters: not provided by the Federal State Educational Standard.

6.4 Distribution of practical training topics by semester: not provided by the Federal State Educational Standard.

6.5. Distribution of topics of clinical practical classes by semesters using DOT and EOS:

№	Name of topics of clinical practical classes	Volume in AH		
		Semester 6	Semester 7	Semester 10
1.	Modern methods of diagnosing dental caries			7
2.	Differential diagnosis of complicated forms of caries: pulpitis, periodontitis.			7
3.	Modern methods of diagnosing periodontal diseases			7
4.	Differential diagnosis of diseases of the oral mucosa			6
5.	Diagnosis of precancerous diseases. Oncological alertness in the practice of a dentist.			7
	offset			
	Total (total - 36 Ah)			34

6.6 Distribution of seminar topics by semester: not provided by the Federal State Educational Standard.

6.7 Distribution of student independent work (SIW) by types and semesters with the use of DOT and EOS:

№	Name of the type of CPC*	Volume in Ah		
		Semester 6	Semester 7	Semester 10
	<i>Preparation for clinical practical classes, homework, preparation for current control</i>			5
	<i>Working with lecture material</i>			5
	<i>Working with electronic resources on the PIMU distance education portal</i>			5
	<i>The study of material submitted for independent study (separate topics, paragraphs), work with literary sources</i>			8
	<i>Preparing for testing</i>			5
	<i>Total</i>			28

7. Fund of evaluation tools for current control and intermediate certification

7.1. Forms of current control and intermediate certification*, types of evaluation tools:

No. p/p	semester number	Forms of control	Name of the discipline section	Evaluation tools		
				Kinds	Number of questions in the task	Number of independent options
1	2	3	4	5	6	7

1	10	offset	Research methods in dentistry	Tests, clinical situational tasks	3	50
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** forms of current control: control of the student's independent work, control of the development of the topic; forms of intermediate certification: test, exam*

The current control over the discipline is carried out using control questions, situational tasks, as well as test tasks.

Boundary control in the discipline is carried out by conducting a test using tasks and test tasks.

Intermediate control in the form of an exam (after the 4th year) in the discipline is carried out in the form of an interview on tickets (using clinical situational tasks, tests).

The final control is carried out at the end of the training, students pass the final state certification in the form of state final exams after the 5th year in 3 stages: certification of practical skills, test tasks, interviews on clinical situational tasks.

7.2. Examples of evaluation tools:

Task #1

Patient S. is 25 years old. The patient complains about the presence of a carious cavity in the tooth. The tooth has never hurt before. Treatment was not carried out.

Objectively: at 2.5 there is a carious cavity filled with food remains on the chewing surface of medium depth. The gingival mucosa in the area 2.5,2.4,2.3 is pale pink. When probing 2.5 - a dense bottom of the carious cavity is determined, probing the bottom and walls is painless. The reaction to the cold does not cause pain. Percussion 2.5,2.4,2.3 - painless. When preparing 2.5 - pain occurs along the enamel-dentin border.

1. Make a preliminary diagnosis, conduct a differential diagnosis.
2. What additional research methods should be carried out to clarify the diagnosis?
3. What data of the anamnesis and research methods confirm the diagnosis?
4. What treatment should be carried out?

Task #2

Patient N., 45 years old, applied to the dental clinic for the purpose of sanitation of the oral cavity.

Objectively: there is a carious cavity on the chewing surface 2.6 within the middle layers of dentin. Dentin along the walls and bottom is dense, pigmented. Cold water does not cause pain.

1. List the diseases that are likely with this symptomatology.
2. Make a preliminary diagnosis by selecting the necessary data from the problem statement.
3. Perform differential diagnosis.

Task #3

Patient M., 40 years old, came to the clinic with complaints of pain in the lower jaw on the left.

Objectively: the gingival mucosa is hyperemic, edematous, bleeding on probing. Tooth 3.6 has a deep carious cavity filled with food debris. EDI - 20 μ A, tooth 3.5 - intact, II degree mobility, swelling of the gums, pathological periodontal pocket 7 mm deep, with purulent discharge, painful percussion.

1. Make a preliminary diagnosis.
2. Perform differential diagnosis.
3. Make a survey plan.
4. Tactics of a dentist.

5. The choice of method of anesthesia.

Task #4

Patient K., 45 years old, came to see a dentist with complaints of burning sensation, pain in the tongue, oral mucosa, lips, dryness in the oral cavity.

From the anamnesis it was found out that the patient 6 months ago underwent gastric resection due to a malignant neoplasm.

Objectively: the examination revealed a decompensated form of dental caries, tooth enamel without natural shine. The mucous membrane of the oral cavity is dry, pale, the tongue is smooth.

1. Make a preliminary diagnosis.
2. What examination methods can you use to clarify the diagnosis?
3. Plan a comprehensive treatment plan.

Task #5

Patient V., aged 15, is hospitalized in a children's clinic. An assistant of the Department of Therapeutic Dentistry was invited to the consultation.

The child complains of pain in the mouth, general weakness. The mother notes lethargy, drowsiness, fever up to 39°C , refusal to eat.

From the anamnesis: the child had ARVI a week ago (he received oleandomycin, calcium gluconate, vitamin C for 5 days). He grew and developed according to his age. In early childhood he suffered from exudative diathesis, he is allergic to chocolate.

Objectively: the general condition of the child is severe, the body temperature is 38.8°C . The lips are edematous, covered with massive crusts. Many extensive erosions on the mucous membrane of the cheeks, tongue, lips, covered with a whitish coating, which are sharply painful when touched. Bloody crusts in the nasal passages, hemorrhages in the sclera of the left eye. On the back of the left hand there are two bubbles up to 5 mm in diameter.

1. Make a preliminary diagnosis.
2. Carry out differential diagnostics.
3. What morphological elements are typical for this pathology.
 - a) papule d) blister
 - b) erosion e) bubble
 - c) ulcer g) crust

Task #6

Patient A., 22 years old, gave birth to a child 3 months ago. The child is breastfed.

Currently, patient A. complains of tooth decay, as well as dryness and burning sensation in the tongue and lips, a perversion of taste sensitivity.

Blood analysis:

erythrocytes -3×10^{12} in 1l,

H b -90 g/l,

color indicator - 0.7,

leukocytes -5.3×10^9 ,

lymphocytes-38%,

platelets -200×10^9 ,

ESR-18 mm/h.

Serum iron 560 mcg/l.

1. List the diseases that are likely with this clinical symptomatology
2. Make a preliminary diagnosis.
3. What additional examination methods does your patient need?
4. Which doctor should consult, treat and observe this patient?
5. What is your next strategy?

Task #7

Patient N., 44 years old, went to the dentist for the purpose of sanitation of the oral cavity.

When examining the oral cavity on the buccal mucosa on the right and left, white areas were found in the form of a lacy pattern. The area of the lesion is 1.5x2.5 cm. The mucosa around is pale pink, sufficiently moistened. Palpation of the foci is painless. Regional lymph nodes are not palpable. 47.46 - amalgam fillings, devoid of shine. 36 - missing. The patient is easily excitable, touchy.

1. Make a diagnosis.
2. Perform differential diagnosis.
3. Should the patient be informed of her illness?
4. What treatment is needed?
5. Disease prognosis.

7.3. Evaluation tools recommended for inclusion in the fund of evaluation tools for the final state certification.

Clinical situational tasks illustrated with photographs and radiographs with a list of questions on the topic. Test tasks. Conducting an exam in manual skills using modern dental materials and tools.

8. Educational, methodological and information support of the discipline (printed, electronic publications, Internet and other network resources) .

8.1. List of basic literature*:

No.	Name according to bibliographic requirements	Number of copies	
		At the department	In library
1	Therapeutic dentistry. Part 2: Periodontal disease: a textbook for universities 2 / Barer G. M.; Publisher: GEOTAR-Media, 2008	1	33
2	Therapeutic dentistry. Guide to practical exercises: study guide / Maksimovsky Yu. M.; Publisher: GEOTAR-Media, 2011	1	102
3	Therapeutic dentistry: a textbook for students. honey. universities / Borovsky E.V. Publisher: Medical News Agency, 2011	1	54
4	Dentistry of the XXI century : topical aspects : compilation scientific works With international participation , dedicated to the 20th anniversary departments therapeutic and orthopedic dentistry / Lukinykh L . M .; Ed . Nizhny State Medical Academy , 2012	1	6
5	Recovery teeth light-cured composite materials : practical management for doctors dentists - therapists Author : Makeeva I . M .; Publisher : MEDpress - inform , 2013	1	30

8.2. List of additional literature:

No.	Name according to bibliographic requirements	Number of copies
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		At the department	In library
1	Modern filling materials and medicinal drugs in therapeutic dentistry : practical management / Dmitrieva L . A .; Ed .: Medical informational agency , 2011	1	1
2	Phantom course of therapeutic Phantom course of therapeutic dentistry / Nikolaev AI; Publisher: MEDpress-inform, 2009	1	96
3	Recovery teeth light-cured composite materials : practical management for doctors dentists - therapists / Makeeva I . M .; Publisher : MEDpress - inform , 2011	1	1
4	Mistakes in endodontic treatment and ways to prevent them: a teaching aid / Murzova T.V.; Publisher: NizhGMA, 2010	1	35
5	Apical periodontitis: textbook / Lukinykh L. M.; Ed. Nizhny State Medical Academy, 2010	1	54
6	Therapeutic dentistry: a textbook for students. honey. Universities / Borovsky E.V.; Publisher: Medical Information Agency, 2011	1	54
8	Dentistry. Recording and maintaining a medical history: a guide / Afanasiev V.V.; Publisher: GEOTAR-Media, 2013	1	50
9	Restoration of teeth with light-cured composite materials: a practical guide for the doctor / Makeeva I.M.; Publisher: MEDpress-inform, 2013	1	30
10	Treatment of periodontal diseases: textbook / Zhulev E. N.; Publisher: NizhGMA, 2016	6	1

8.3. List of guidelines for classroom and independent work of students:

No	Name according to bibliographic requirements	Number of copies	
		At the department	In library
1	Pulpitis. Etiology. Pathogenesis. Diagnostics. Treatment / N.N.	1	1

	Bondarenko, L.M. Lukinykh. - Nizhny Novgorod: Publishing house of NizhGMA, 2014.- 190p.		
2	Algorithm aesthetic restoration front and lateral teeth : monograph / L. _ A . Lobovkina A. _ _ M . Romanov - M . : MEDpress - inform , 2008 R / W	1	1
3	Scheme surveys and writing medical cards dental patient (methodical instructions) / Kondyurova E . V ., Uspenskaya Oh . A . // Saransk : Publishing House _ Mordovs . un - ta , 2015. - 72 p .	1	1
4	.Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions / L.M. Lukinykh, O.A. Assumption. - N.Novgorod: 5th edition, NizhGMA Publishing House, 2015.-44p.	1	1
5	Irrigation of the root canal system / ed. L.M. Lukinykh. , 2nd edition - Nizhny Novgorod: NizhGMA Publishing House, 2015.- 36p.	1	1
6	Obturation of the root canal system / ed. L.M. Lukinykh. - Nizhny Novgorod: Publishing house of NizhGMA, 2015.- 60s.	1	1
7	Apical periodontitis / Lukinykh L.M., Egorova L.I., Tiunova N.V., Zhdanova M.L. // Tutorial. Publishing house NGMA. Nizhny Novgorod, 2016. - 174p.	1	1
8	Caries teeth : educational allowance / Yu . M . Maksimovsky - M . : GEOTAR - Media , 2009 Ab / scientific	1	1
9	Gutova , Yu . C . Influence postbonding on the quality restorations at operational and recovery treatment solid fabrics tooth With using compositional filling materials : author's abstract . dis cand . honey . Sciences : 14.00.21 / Yu . C . Gutov . - M. _ : B . and ., 2008. - 26 p .	1	1
10	Chagay A. _ _ A . Clinico - experimental justification choice methods restoration teeth at treatment uncomplicated caries : author's abstract . dis cand . honey . Sciences : 14.00.21 / A. A . Chagay . - Yekaterinburg : B. _ and ., 2007.	1	1

Educational and methodological materials published by the staff of the Department of Therapeutic Dentistry and used by both teachers and students:

No. \ No. p / p	Teaching aid, monograph	The authors)	Edition (where, when)
1.	Catarrhal gingivitis. Etiology, clinic, treatment. (Guidelines for students)	L.M. Lukinykh	Nizhny Novgorod, NGMI.-1992.- 24s.
2.	Reading radiographs of teeth and jaws. (Guidelines for students)	L.M. Lukinykh	Nizhny Novgorod, NGMI.-1992. - 27s.

3.	Scheme of clinical examination of the patient and writing an academic medical history. (Guidelines for students)	L.M. Lukinykh	Nizhny Novgorod, NGMI.-1992. -28s.
4.	Periodontal disease (guidelines for students). Part 1	L.M. Lukinykh	Nizhny Novgorod, NGMA. - 1993. -43s.
5.	Periodontal disease (guidelines for students). Part 2	L.M. Lukinykh	Nizhny Novgorod, NGMA. - 1993. -46s.
6.	Diseases of the oral mucosa mouth. (Tutorial)	L.M. Lukinykh S.I. Gazhva L.N. Kazarina Yu.N. Livshits M.M. Poleshchuk L.V. Shestopalova L.I. Krasulova and others.	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 1993.-211s.
7.	Guidelines for industrial practice for students of the Faculty of Dentistry on the prevention of dental diseases.	L.M. Lukinykh S.I. Gazhva	Nizhny Novgorod, NGMA.-1994. -16s.
8.	Guidelines for students of the Faculty of Dentistry on the production practice of pediatric dentistry.	L.M. Lukinykh L.N. Kazarina	Nizhny Novgorod, NGMA.-1994.-18s.
9.	Guidelines for students of the Faculty of Dentistry for practical work in therapeutic dentistry.	L.M. Lukinykh L.N. Kazarina	Nizhny Novgorod, NSMA.-1995.-31s.
10.	Organization of therapeutic dental care in the armed forces in peacetime and wartime.	L.M. Lukinykh	Nizhny Novgorod, NGMA. -1996.-24s.
11.	Dental caries.	L.M. Lukinykh S.I. Gazhva L.N. Kazarina	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 1996.-128s.
12.	Guidelines for students of the Faculty of Dentistry to industrial practice in therapeutic dentistry and clinical examination	L.M. Lukinykh L.N. Kazarina	Nizhny Novgorod, NSMA.-1997.-34s.
13.	Treatment and prevention of dental caries. (Tutorial)	L.M. Lukinykh	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 1998.-168 p.
14.	Guidelines for foreign students of the Faculty of Dentistry to work practice in therapeutic dentistry.	L.M. Lukinykh	Nizhny Novgorod: Nizhegorod Publishing House.

			state medical academy, 1998.-32 p.
15.	Guidelines for students of the 2nd year of the Faculty of Dentistry to the industrial practice "Nurse of a Dental Institution".	L.M. Lukinykh Yu.N. Livshits N.N. Shakerova S.R. Sorokin	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 1998.-10 p.
16.	Dental caries (etiology, clinic, treatment, prevention).	L.M. Lukinykh	N. Novgorod: 2nd edition, Nizhegorod Publishing House. state medical academy, 1999. -185 p.
17.	Non-surgical treatment of periradicular jaw cyst. Monograph	L.M. Lukinykh G.D. Ovrutsky Yu.N. Livshits	Library of the practical doctor. -M.: Medicine.-1999.-118s.
18.	Apical periodontitis. (Tutorial)	L.M. Lukinykh Yu.N. Livshits	Nizhny Novgorod: Nizhegorod Publishing House. state Medical Academy, 1999.-92.S.
19.	Pulpitis (Clinic, diagnosis, treatment).	L.M. Lukinykh L.V. Shestopalova	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 1999.-88s.
20.	Scheme of clinical examination of the patient and writing an academic medical history. (Guidelines for students of the Faculty of Dentistry)	L.M. Lukinykh I.I. Parshin	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 1999.-44 p.
21.	Diseases of the oral mucosa.	L.M. Lukinykh L.N. Kazarina S.I. GazhvaL.V.Shestopalova Yu.N.Livshits	Nizhny Novgorod: Nizhegorod Publishing House. state medical academy, 2000.-p. 57-160.
22.	Dental caries (etiology, clinic, treatment, prevention).	L.M. Lukinykh	N. Novgorod: 3rd edition, Nizhegorod Publishing House. state medical academy, 2001. -185 p.
23.	Pulpitis (Clinic, diagnosis, treatment).	L.M. Lukinykh L.V. Shestopalova	N. Novgorod: 2nd edition, Nizhegorod Publishing House. state medical academy, 2002.-88s.

24.	Scheme of clinical examination of the patient and writing an academic medical history. (Guidelines for students)	L.M. Lukinykh I.I. Parshin	Nizhny Novgorod: 2nd edition, Nizhny Novgorod Publishing House. state medical academy, 2003. -44s.
25.	Physiotherapy in the practice of therapeutic dentistry.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod, NGMA.-2003.-36p.
26.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod, NGMA.-2003.-40p.
27.	Guidelines for work practice in therapeutic pediatric dentistry for students of the Faculty of Dentistry.	L.M. Lukinykh L.N. Kazarina S.Yu. Kosyuga I.N. Chuprunova MM. Ratsyuk	Nizhny Novgorod, NGMA.-2003.-38s.
28.	Prevention of dental caries and diseases periodontal. <i>Monograph</i>	L.M. Lukinykh	M.: Medical book, 2003.-196s.
29.	Dental caries. Etiology, clinic, treatment, prevention.	L.M. Lukinykh	N. Novgorod: 4th edition, Nizhegorod Publishing House. state medical academy, 2004.-186s.
30.	Guidelines for students of the 2nd year of the Faculty of Dentistry to the production practice "Assistant Nurse of a Dental Institution".	L.M. Lukinykh E.V. Kitaeva	Nizhny Novgorod, NGMA. - 2004. -26s.
31.	Guidelines for students of the 3rd year of the Faculty of Dentistry to work practice in therapeutic dentistry.	L.M. Lukinykh E.V. Kitaeva	Nizhny Novgorod, NGMA. - 2004. - 40 p.
32.	Diseases of the mucous membrane of the oral cavity and lips in children.	/ Ed. L.N. Kazarina	Nizhny Novgorod, NGMA. - 2004. - p. 264.
33.	Apical periodontitis. (Tutorial)	L.M. Lukinykh Yu.N. Livshits	N. Novgorod: 2nd edition, Nizhegorod Publishing House. state Medical Academy, 2004.-92.S.
34.	Pulpitis (Clinic, diagnosis, treatment). (Tutorial)	L.M. Lukinykh L.V. Shestopalova	N. Novgorod: 3rd edition, Nizhegorod Publishing House. state medical academy, 2004.-88C.
35.	Dentist and patient: rights, obligations, a responsibility. <i>Monograph</i>	N.N. Bondarenko	M.: Medical book, 2004. - 96 p.

36.	Diseases of the oral cavity.	/ Ed. L.M. Lukinykh	Nizhny Novgorod, Nizhny Novgorod Publishing House. state medical academy, 2004.-510s.
37.	Civil-legal bases of medical activity. Guidelines	N.N. Bondarenko	Nizhny Novgorod, Nizhny Novgorod Publishing House. state medical academy, 2005.-48 p.
38.	Scheme of clinical examination of the patient and writing an academic medical history. (Guidelines for students)	L.M. Lukinykh I.I. Parshin	Nizhny Novgorod: 3rd edition, Nizhny Novgorod Publishing House. state medical academy, 2005. -44s.
39.	Physiotherapy in the practice of therapeutic dentistry.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 2nd edition, NGMA. - 2005.-36s.
40.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 2nd edition, NGMA. - 2005.-40s.
41.	Periodontal disease (clinic, diagnosis, treatment and prevention).	L.M. Lukinykh E.N. Zhulev I.N. Chuprunova	Nizhny Novgorod, Nizhny Novgorod Publishing House. state medical academy, 2005.-322p.
42.	Legal literacy of dentists. <i>Monograph</i>	A.V. Demina G.A. Pashinyan L.M. Lukinykh	Moscow, Medical Book Publishing House, 2005.-160p.
43.	Forensic stomatological identification of a person (state and development prospects). <i>Monograph</i>	G.A. Pashinyan L.M. Lukinykh G.N. Karpov	Moscow, Medical Book Publishing House, 2005.-157p.
44.	Dental diseases during pregnancy and their prevention. <i>Monograph</i>	CM. Tolmacheva L.M. Lukinykh	Moscow, Medical Book Publishing House, 2005.-150p.
45.	Dental complications that developed after radiation and chemoradiotherapy (Clinical course, treatment and prevention of candidiasis that developed against the background of mucositis). <i>Monograph</i>	L.I. Egorova L.M. Lukinykh	Moscow, Medical Book Publishing House, 2006.-155p.
46.	Physiotherapy in the practice of therapeutic dentistry.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 3rd edition, NGMA. - 2006.-36s.
47.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 2nd edition, NGMA.- 2006.-40s.

48.	Establishing the age and gender of a person by the degree of tooth wear, taking into account the presence of a number of pathological conditions and harmful working conditions. <i>Monograph</i>	G.A. Pashinyan L.M. Lukinykh A.A. Plishkin	Moscow, Medical Book Publishing House, 2007.-104 p.
49.	Dryness in the mouth. Classification, differential diagnosis, treatment	O.A. Uspenskaya A.A. Plishkin N.V. Kazarina E.A. Shevchenko	Nizhny Novgorod: Publishing House of NizhGMA, 2007.-31 p.
50.	Urogenital candidiasis and bacterial vaginosis.	E.A. Shevchenko A.A. Artifeksova O.A. Uspenskaya	Nizhny Novgorod: NizhGMA Publishing House, 2007.-27 p.
51.	Dentistry for pregnant women.	O.A. Uspenskaya E.A. Shevchenko N.V. Kazarina	Nizhny Novgorod: Publishing House of NizhGMA, 2008.- 24 p.
52.	Clinical and expert assessment of errors and complications in the practice of a pediatric dentist.	S.I. Gazhva E.S. Tuchik HER. Abramova N.N. Bondarenko	Nizhny Novgorod: Publishing House of NizhGMA, 2008.-300 p.
53.	Guide to Forensic Dentistry.	Ed. G.A. Pashinyan	M: LLC Medical Information Agency, 2009. -528 p.
54.	Scheme of clinical examination of the patient and writing a medical record of a dental patient.	L.M. Lukinykh	Nizhny Novgorod, Nizhny Novgorod Publishing House. state medical academy, 2009. - 72p.
55.	Dentist and patient: legal reality.	N.N. Bondarenko	Moscow, Publishing house Medical book, Publishing house "Dentistry", 2009.-124 p.
56.	Guidelines for the production practice in therapeutic dentistry "Assistant to the dentist therapist".	L.M. Lukinykh CM. Tolmacheva L.I. Egorova E.V. Kitaeva	Nizhny Novgorod: Publishing house of NizhGMA, 2010.-44 p.
57.	Apical periodontitis. Tutorial	L.M. Lukinykh L.I. Egorova	Nizhny Novgorod: Nizhny Novgorod Publishing House. state medical academy, 2010.-120 p.
58.	Methodical Instructions for the clinical practice in therapeutic stomatology for the 3-d year students of the stomatological faculty "THE ASSISTANT OF STOMATOLOGICAL THERAPEUTIST".	L.M. Lukinykh L.I. Egorova CM. Tolmacheva	Nizhny Novgorod: NizhGMA Publishing House, 2010.-35 p.

59.	Guidelines for conducting work practice "Assistant Nurse of the Dental Department."	L.N. Kazarina L.V. Vdovina L.M. Lukinykh E.V. Kitaeva	Nizhny Novgorod: Publishing house of NizhGMA, 2010.-40 p.
60.	Guidelines for the production practice in therapeutic dentistry "Assistant to the dentist therapist".	L.M. Lukinykh CM. Tolmacheva L.I. Egorova E.V. Kitaeva	Nizhny Novgorod: Publishing House of Nizhny State Medical Academy, 2011.-44s.
61.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 3rd edition, NGMA.- 2011.-44p.
62.	Scheme of clinical examination of the patient and writing a medical record of a dental patient.	L.M. Lukinykh	Nizhny Novgorod, Nizhny Novgorod Publishing House. state medical academy, 2011. -72p.
63.	Physiotherapy in the practice of therapeutic dentistry.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 5th edition, NGMA. - 2011.-36s.
64.	Physiotherapy in the practice of therapeutic dentistry.	L.M. Lukinykh O.A. Uspenskaya E.A. Shevchenko	Nizhny Novgorod: 6th edition, NGMA. - 2012.-52s.
65.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 3rd edition, NGMA.- 2012.-44p.
66.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions.	L.M. Lukinykh O.A. Uspenskaya	Nizhny Novgorod: 3rd edition, NGMA.- 2013.-44p.
67.	Urogenital infection and infertility (monograph)	Shevchenko E.A., Artifeksova A.A., Uspenskaya O.A.	Nizhny Novgorod: Publishing house of NizhGMA, 2012. - 160 pages.
68..	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions	Lukinykh L.M. Uspenskaya O.A.	Tutorial. 5th edition. Publishing house NGMA. Nizhny Novgorod, 2013. 44 p.
69	Test tasks in therapeutic dentistry	Lukinykh L.M., Tiunova N.V., Egorova L.I., Zhdanova M.L., Plishkina A.A., Zolotukhin V.A., Kruglova N.V., Spiridonova S.A.	Nizhny Novgorod: Publishing house of NizhGMA, 2013. - 272 pages.
70.	Optimization of complex treatment of inflammatory periodontal diseases: (monograph)	L.M. Lukinykh, N.V. Kruglova -	N. Novgorod: NizhGMA Publishing House, 2013 - 122 p.; ill.

71.	Lichen planus of the oral mucosa: etiology, pathogenesis, clinic, modern methods of treatment (monograph)	Lukinykh L.M., Tiunova N.V.	Nizhny Novgorod: Publishing house of NizhGMA, 2013. - 116 p.
72.	Reading radiographs of teeth and jaws at various age periods in normal and pathological conditions (textbook).	Lukinykh L.M. Uspenskaya O.A.	Tutorial. 6th edition). Publishing house NGMA. Nizhny Novgorod, 2014. 42 p.
73.	Physiotherapy in the practice of therapeutic dentistry (educational manual)	Lukinykh L.M. Uspenskaya O.A. Shevchenko E.A.	Teaching aid. 2nd edition. Nizhny Novgorod: NizhGMA Publishing House, 2014.-52 p.
74	Irrigation of the root canal system (educational manual).	Lukinykh L.M., Tiunova N.V., Egorova L.I., Zhdanova M.L., Yartseva A.V.	Publishing house NGMA. Nizhny Novgorod, 2014. - 36 p.
75.	Pulpitis. Etiology. Pathogenesis. Diagnostics. Treatment (textbook).	N.N. Bondarenko, L.M. Lukinykh.	Nizhny Novgorod: NGMA Publishing House, 2014. - 190 pp. ill.
76.	Lichen planus (educational manual).	Lukinykh L.M., Tiunova N.V.	Publishing house NGMA. Nizhny Novgorod, 2014. 44 p.
77.	Erythema multiforme exudative (educational manual)	L.M. Lukinykh, O.A. Uspenskaya, E.A. Shevchenko.	Nizhny Novgorod: Publishing house of NizhGMA, 2015. - 44 p., ill.
78.	Chronic recurrent aphthous stomatitis (textbook)	O.A. Uspenskaya, L.M. Lukinykh, E.A. Shevchenko, N.V. Tiunova.	Nizhny Novgorod: Publishing house of NizhGMA, 2015. - 72 p., ill.
79.	Obturation of the root canal system (training manual).	Lukinykh L.M., Tiunova N.V., Egorova L.I., Zhdanova M.L., Yartseva A.V.	Publishing house NGMA. Nizhny Novgorod, 2015. - 60 p.
80.	Precancerous diseases of the oral mucosa and the red border of the lips (textbook).	Lukinykh L.M., Zhdanova M.L., Tiunova N.V.	Publishing house NGMA. Nizhny Novgorod, 2015. - 88 p.
81.	Physiotherapy in the practice of therapeutic dentistry (educational manual)	O.A. Uspenskaya, L.M. Lukinykh, E.A. Shevchenko	Teaching aid. 3rd edition. Nizhny Novgorod: NizhGMA Publishing House, 2015.-52 p.
82..	Reading radiographs of teeth and jaws at different age periods in normal and pathological conditions (textbook)	O.A. Uspenskaya, L.M. Lukinykh	Tutorial. 7th edition. Publishing house NGMA. Nizhny

			Novgorod, 2015. - 44 pages.
83	Scheme of examination and writing a medical record of a dental patient (guidelines).	Kondyurova E.V., Uspenskaya O.A.	Saransk: Publishing House Mordovs. unta, 2015. - 72 p.
84.	Treatment of periodontal diseases (textbook)	E.N. Zhulev, N.V. Kruglova, A.V. Kochubeinik	Nizhny Novgorod, 2016-162 c., illustrations ISBN 978-5-7032-1077-2.
85.	Halitosis. (Tutorial.)	O.A. Uspenskaya, N.V. Tiunova	N. Novgorod, publishing house of NizhGMA, 2016. - 72p. ill.
86.	Apical periodontitis (Tutorial).	Lukinykh L.M., Egorova L.I., Tiunova N.V., Zhdanova M.L.	Publishing house NGMA. Nizhny Novgorod, 2016. - 174p.
87.	The orofacial system: the art of clinical diagnosis. (Tutorial).	E.N. Zhulev, V.D. Troshin, O.A. Uspenskaya, N.V. Tiunova.	N. Novgorod, Publishing house of NizhGMA, 2016.- 88 pages

8.4. Electronic educational resources used in the process of teaching the discipline:

8.4.1. Internal Electronic Library System of the University (VEBS)*

<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
Internal Electronic Library System (VEBS) PIMU	Proceedings of PIMU staff (textbooks, manuals, collections of tasks, methodological manuals, laboratory work, monographs, etc.)	Access by individual login and password from any computer and mobile device	Not limited

8.4.2. Electronic educational resources purchased by the university

No.	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
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»	National guidelines, clinical guidelines, textbooks, monographs,	Access by individual login and password from any computer	Not limited

		atlases, reference books, etc.	and mobile device	
3.	Database "Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishing houses, incl. translated editions. The collection of subscription publications is formed point by point.	Access by individual login and password from any computer and mobile device. From university computers - access is automatic.	Not limited
4.	Electronic periodicals in the database "SCIENTIFIC ELECTRONIC LIBRARY eLIBRARY "	Electronic medical magazines	Access - from the computers of the university.	Not limited

8.4.3 Open access resources

No.	Name of the electronic resource	Brief description (content)	Access conditions
1.	Electronic articles and abstracts	Electronic medical magazines	Not limited
2.	Clinical recommendations of the Ministry of Health of the Russian Federation	Protocols for the management of various dental nosologies	Not limited
3.	Standards of Care http : www . rspor . en / index.php?mod1=standards3&mod2=db1	Medical care standards	Not limited
4.	State Register of Medicines http :// www . drogreg . en / bases / WebReestrQuery . asp	List of commonly used drugs	Not limited
5.	Federal State Institution Scientific Center for Expertise of Medicinal Products of Roszdravnadzor http://www.regmed.ru	Circulation of medicines	Not limited
6.	Pharmaceutical Information Foundation http :// drugreg . en	Medications	Not limited
7.	Russian Encyclopedia of Medicines http :// rlsnet . en	Medications	Not limited
8.	Handbook Vidal. http://www.vidal.ru	Medications	Not limited

9.	STAR-Dental Association of Russia www.e-stomatology.en	Guidelines	Not limited
10.	Russian State Library (RSL) http://www.rsl.en/	Abstracts for which there are copyright agreements with permission for their open publication.	Not limited
11.	Scientific electronic library of open access CyberLeninka http://cyberleninka.ru/	Full texts of scientific articles with annotations published in scientific journals in Russia and neighboring countries.	Not limited
12.	Federal Electronic Medical Library (FEMB) http://neb.rf/	Includes electronic analogues of printed publications and original electronic publications that have no analogues recorded on other media (dissertations, abstracts, books, magazines, etc.)	Not limited
13.	European Association of Scientists, Educators and Dental Professionals www.ed-academy	Dental education, scientific activity	Not limited
14.	Russian Medical Academy of Postgraduate Education www.rmappo.en/	Information about the departments and departments, scientific subdivisions. Selection committee.	Not limited
15.	American Dental Association of Dentists www.americandental.ru/index.html?page=23	International standards and requirements for dental products	Not limited

9. Logistics support of discipline.

9.1. List of premises* required for conducting classroom studies in the discipline.

1. Dental rooms equipped with the necessary equipment and equipment No. 5
2. X-ray room
3. Sterilization

9.2. The list of equipment* required for classroom training in the discipline.

Lectures:

1. Electronic presentation set
2. Lecture hall, screen, projector, laptop

Tables and albums.

1. Diagnosis of non-carious lesions and caries.
2. Diagnosis of pulpitis.

3. Diagnosis of periodontitis.
4. Diagnosis of periodontal diseases.
5. Diagnosis of diseases of the oral mucosa.
cement.

Presentations, transparencies, albums, videos:

1. Caries and its complications (pulpitis, periodontitis).
2. Periodontal disease (gingivitis, periodontitis, periodontal disease, idiopathic diseases).
3. Diseases of the oral mucosa.
4. Non-cariou lesions of the teeth.
5. Methods of examination of the patient in the clinic of therapeutic dentistry.
6. Karifei dentistry.

Dental instruments, devices:

1. Dental instruments (tweezers, probes, mirrors, excavators, trowels, pluggers, matrix holders, matrices, tips, burs, polishers, carborundum stones, rubber bands and brushes in stock, endodontic instruments in stock, etc.).
2. Dental filling materials for filling root canals, carious cavities and non-cariou lesions.
3. Dry oven, autoclave.
4. Germicidal lamp.
5. Bixes for sterilization.
6. Negatoscope.
7. Odontosensimeter, Digitest.
8. Apparatus Diathermocoagulator.
- 9 Hydromassage apparatus.
10. Ultradent apparatus.
11. Amalgamator.
12. Apparatus "Neuron-01".
13. Apparatus "Neuron-02".
14. Apparatus "Mirabel".
15. Apparatus IGNL.
16. Tonometer.
17. Phonendoscope.
18. Assistant's chair.
19. Dentist's chair.
20. Dentist's table.
21. Dental unit (Azimuth, Galant, DabiAtlant, Performer-IDek, Castellini).
22. Apex locator.
23. MiniPieson.
24. Assist.
25. Televisions and VCRs.
26. Laptop and multimedia projector

Training stands:

1. Information (announcements).
2. Plans of lectures and practical classes, lists of recommended basic and additional literature for study.
3. Oral hygiene, hygiene products.
4. Sweeteners.
5. Prevention of non-cariou diseases, dental caries and periodontal diseases.
6. A set of orthopantomograms and intraoral radiographs.
7. Treatment, prevention of periodontal diseases and oral mucosa.
8. Recommended literature on therapeutic dentistry, published in a typographical way by the teaching staff of the Department of Therapeutic Dentistry.

Training dummies:

1. Teeth with cavities of 1-6 Black classes.
2. Phantom head.
3. Phantom of oral hygiene.
4. Human teeth are artificial and natural.
5. Phantom for endodontic manipulations.
6. Workplace for each student (dental unit, dental chair, dentist's chair, dentist's table , doctor's desk).
 1. Electronic presentation set
 2. Lecture hall, screen, projector, laptop, screen, TV, video camera, laidoscope, video recorder, PC, video and DVD players, monitors, sets of slides, tables / multimedia visual materials on various sections of the discipline, video films, boards and others

ABOUT educational technologies in an interactive form used in the process of teaching the discipline:

1. role play
2. business games
3. training
4. game design
5. computer simulation
6. situation-case etc.;

non-imitation technologies :

1. lecture (problematic, visualization, etc.),
2. discussion (with and without brainstorming),
3. programmed learning, etc.

Only 25% of interactive classes from the volume of classroom work.

9.3. Examples of educational technologies in an interactive form:

No	Section name	Forms of classes using active and interactive educational technologies
1	Modern methods of diagnosing dental caries	Role-playing game
2	Differential diagnosis of complicated forms of caries: pulpitis, periodontitis.	Seminar-discussion
3	Modern methods of diagnosing periodontal diseases	business game
4	Differential diagnosis of diseases of the oral mucosa	Seminar-discussion
5	Diagnosis of precancerous diseases. Oncological alertness in the practice of a dentist.	Lecture - visualization

Role play design. The methodology of the game can be demonstrated on the example of simulating a clinical situation - dental caries. There are several stages in the role-playing game.

- determination of the goal of the game, development of a game scenario depending on the topic of the lesson: study of the clinic, diagnosis, differential diagnosis of caries, thresholds of sensitivity and emotional lability were determined;
- instructing participants: the moderator (the role of a teacher or educator) names the topic of the lesson, determines its significance, focuses students' attention on the need to highlight competencies (especially legal aspects) that should be analyzed on this particular topic.
- distribution of roles

- determining the features of their behavior, depending on the role. The educational tasks of each are determined based on the game roles.

Dive into the game . Participants of the game are determined. In a role-playing game, learning takes place in the process of joint activity, but at the same time, each participant performs (solves) his task, in accordance with the role.

Students choose cards with a given role in the "blind", determine the range of questions in accordance with the job responsibilities associated with the reception of a patient with dental caries. The "patient" card indicates the diagnosis, severity and aggravating moments (background disease, condition of the dentition: deep bite, partial absence of teeth, short frenulum or any other concomitant pathology). The rest of the participants in the game should not know the diagnosis.

Game process. The student-patient must formulate the complaints with which patients usually go to the doctor in this situation, model the clinical signs of the disease in the form of individual symptoms characteristic of this particular case.

The task of the doctor was to recreate the picture of the disease from individual symptoms, supplement it with the results of appropriate examination methods, and make a diagnosis that is known only to the student - the patient. At this stage of the game, the main points that were taken into account when discussing the course of the game were the observance of the procedure for examining the patient, compliance with the norms of ethics and deontology.

The student dentist clarifies the patient's complaints, details the conditions for the occurrence and development of these symptoms, how they stop. After a complete survey (anamnesis of the development of the disease, life), he identifies the leading symptoms. Conducts a detailed examination of the patient (external examination, examination of the oral cavity, the condition of hard tissues of the teeth), reveals the objective symptoms of the alleged diagnosis, determines and justifies the need for additional examination methods and their significance in making the final diagnosis. He clarified the need for a consultation consisting of an orthodontist, a surgeon or other related specialists to draw up a protocol for the complex treatment of a patient.

The radiologist describes the patient's x-ray, drawing attention to the degree of bone resorption, which determines the severity of the course of periodontal disease, which may accompany the underlying disease.

The lab doctor interprets the tests, identifying changes in the data and their implications for the clinic (for example, a blood test).

Head the dental department analyzes the work of the doctor, in terms of compliance with ethics, deontology, asepsis and antisepsis, the choice of drugs, the validity of their prescription.

An expert analyst analyzes the work of all participants in the game step by step, evaluates the stages of work with the patient, and assigns marks according to the scorecard.

At the final stage, it is important to discuss the course of the game, the moderator summarizes the results of the game, discusses the performance of the participants, evaluates the participants in the game. The teacher, noting the positive aspects and shortcomings of the performers of the roles, encourages discussion, gives the participants the opportunity to defend individual positions, determines the level of assimilation of knowledge, professional skills and abilities on this topic.

Seminar-discussion

Preparatory stage.

During the preparation period (2-3 days before the seminar) during independent work, a speaker, a co-rapporteur are determined and the leaders of the initiative groups for each issue are determined. Each leader prepares a 5-7 minute speech in advance, revealing the relevance and significance of the issue under consideration, its main problems. The composition of the expert group consisting of two people is determined to take into account the performances and give individual marks. During this period, a trainee is also assigned to lead the seminar.

His responsibilities include:

- compliance with the time limit for each question;
- directing the discussion of the issue (to whom to give the floor for a report, ensuring order and discipline when discussing the issue);
- providing assistance to each group responding to interrogations, etc.

Main stage.

The seminar begins with an introductory speech by the teacher. After that, it is desirable to hear and discuss the report, as well as hear the opponent. Then the teacher determines the composition of the initiative group on the first question. After determining the composition of the group, he, together with the leader of the seminar, takes his place at two tables facing the entire audience.

The facilitator gives the floor for a 6-7-minute presentation to the group leader, and then questions on the essence of the first question of the seminar, and the initiative group answers them. This part of the seminar is the most important. Each participant not only asks questions, but also puts forward his own hypotheses, argues, proves his case, repeatedly refers to lecture notes and manuals to clarify his knowledge and find more convincing and accurate arguments. Thus, the main and basic requirement for organizing work on such a seminar is the following: trainees should as often as possible solve problems posed by themselves. Speaking about the method of asking questions and answering them, it should be noted that the questioner may not address everyone, but a specific person in the initiative group. If this is not the case, then the facilitator regulates the even distribution of questions among the group members. After the time allotted for the question, the facilitator gives the floor to the teacher, who makes a conclusion on the issue (reveals what is the essence of this issue, indicates what to pay special attention to, gives answers to questions that did not receive proper coverage, etc.). Then all subsequent questions of the seminar are discussed in the same way.

The final stage:

- the results of the seminar are summed up;
- the presentation of the expert group and the head of the seminar is heard with an assessment of the work of each trainee;
- a survey of trainees is carried out;
- Set tasks for independent work.

It should be noted that holding a seminar using the method of active dialogue requires some preparatory work and continuous improvement of the methodology. Conducting a seminar with this method allows you to achieve the goal only if you use the various elements of active learning methods in an integrated manner.

Conducting a business game

1. Introduction to the game . Usually at this stage, the participants are introduced to the meaning, goals and objectives of the game being played, the general rules, they are consulted and instructed. However, if necessary, the game may be preceded by a lecture or conversation on the topic "Methods for diagnosing periodontal diseases. Dental and medical documentation.

2. Dividing listeners into groups. The optimal group size is 5-7 people; in each group, a leader is selected and, if necessary, playing roles are distributed (dentist, patient). Roles can be distributed both at the beginning of the game, and as needed, as it progresses.

3. Immersion in the game. In this fragment, the listeners receive a "game task", for example: to determine the examination methods used to diagnose periodontal diseases in a patient. The game participants analyze the proposed situation, diagnose and rank problems, agree on terminology, formulate problems, etc. In addition, they receive not only information, materials for analysis, but also attitudes on the behavior and rules of the game, therefore, *there is a process of familiarization with the rules and entry into role-playing behavior.*

4. Gameplay. At this stage, in accordance with the strategy adopted in each group, the search or development of solutions is carried out. During the discussion, a collective decision is developed, then a project is developed

A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
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

