

No. Stom-21

Federal State Budgetary Educational Institution
Higher Education
"NORTH OSSETIAN STATE MEDICAL ACADEMY"
Ministry of Health of the Russian Federation



**WORKING PROGRAM OF THE DISCIPLINE
"DENTISTRY: CARIESOLOGY AND DISEASES OF HARD
TISSUES OF DENTAL"**

the main professional educational program of higher education - specialist's programs in the
specialty 31.05.03 Dentistry,
approved May 24, 2023

Form of study _____ full-time _____

Term of development of OPOP VO _____ 5 _____

Department of Dentistry №3

Vladikavkaz, 2023

When developing the work program of the discipline, the following are taken as the basis:

1. Federal State Educational Standard of Higher Education in the specialty 31.05.03 Dentistry, approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 984

2. Curriculum of the OPOP HE in the specialty 31.05.03 Dentistry

Stom-21-01-21

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approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia 05/24/2023 Protocol No. 8

The work program of the discipline was approved at a meeting of the Department of Dentistry No.3 dated 05/19/2023 Protocol No. 10

The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council from 05/23/2023 Protocol No. 4

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Content of the work program

1. name of the discipline;
2. a list of planned learning outcomes in the discipline, correlated with the planned results of mastering the educational program;
3. indication of the place of the discipline in the structure of the educational program;
4. the volume of discipline in credit units indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training) and for independent work of students;
5. the content of the discipline, structured by topics (sections) indicating the number of academic or astronomical hours allocated to them and types of training sessions;
6. a list of educational and methodological support for independent work of students in the discipline;
7. assessment materials for conducting intermediate certification of students in the discipline;
8. a list of basic and additional educational literature necessary for mastering the discipline;
9. a list of resources of the information and telecommunications network "Internet" (hereinafter referred to as the "Internet" network) necessary for mastering the discipline;
10. methodological instructions for students on mastering the discipline;
11. a list of information technologies used in the implementation of the educational process in the discipline, including a list of software and information reference systems (if necessary);
12. description of the material and technical base necessary for the implementation of the educational process in the discipline;
13. conducting educational activities using e-learning and distance learning technologies.

1. The list of planned learning outcomes in the discipline and the results of mastering the educational program

No. p / p	Number / index of competence	Content of competence (or parts of it)	Topic of the lesson (section)	Competency achievement indicators	Development results		
					know	be able to	own
1	2	3	4	5	6	7	8
1	UK-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop a strategy	-Normal development of the dentoalveolar system; - classification, etiology, pathogenesis of hard tissue diseases - methods of clinical examination of patients with pathology of solid dental tissues; - methods of diagnostics, prevention and therapeutic treatment pathology of hard tissues of teeth; - Causes of complications diagnosis and treatment of dental caries	ID-1UK-1 Analyzes the problem situation and decomposes it into separate tasks ID-2UK-1 Develops a strategy for solving problems ID-3UK-1 Forms possible solutions to problems	- methods of abstract thinking in establishing the truth, methods of scientific research by mental dismemberment of the object (analysis) and by studying the subject in its integrity, the unity of its parts (synthesis); -	- use the methods of abstract thinking, analysis and synthesis, analyze alternative options for solving research problems and evaluate the effectiveness of the implementation of these options	skills of presenting an independent point of view, analysis and logical thinking, public speech, moral and ethical argumentation, discussions and round tables;
2	UK-6	Able to identify and implement the priorities of their own activities and ways to improve them based on self-assessment and lifelong learning		ID-1UK-6 Assesses own resources and their limits (personal, situational, temporary), uses them optimally for the successful completion of the assigned task ID-2UK-6 Determines the priorities of personal growth and ways to improve one's own	- potential strengths and weaknesses of the personality; - effective ways of self-learning; - methods of effective time planning; - major time wasters	- make long-term and short-term plans; - organize your time; - build a portfolio; - plan your life for the period of study in an educational organization	- techniques for analyzing meaningful life problems and setting priorities; - planning your professional trajectory

				performance based on self-assessment			
3	OPK-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	Examination of a dental patient with pathology of hard dental tissues of carious and non-carious origin. Iatrogenicity in dental practice. Ergonomics and deontological principles in the treatment of caries and non-carious lesions of hard dental tissues.	ID-1OPK-1 Complies with moral and legal standards in professional activities. ID-2OPK-1 Able to assess the social and personal characteristics of the patient and the degree of their influence on the course of the disease ID-3OPK-1 Presents professional information in the process of intercultural interaction, observing the principles of ethics and deontology	-professional ethics and deontology of medical practice; -the role of informed consent	- communicate with patients and colleagues; - work in a team in the diagnosis and treatment of various types of pathology	- communication skills with colleagues and patients
4	OPK-2	Able to analyze the results of their own activities to prevent professional errors	Differential diagnosis of caries. Mistakes in the diagnosis. Mistakes made in the treatment of caries. Treatment of complications of caries arising from professional errors.	ID-1OPK-2 Capable of analyzing errors in the diagnosis and treatment of dental caries ID-2OPK-2 Able to prevent and eliminate complications arising in the treatment of caries.	causes of complications in therapeutic practice in the treatment of dental caries, non-carious lesions of hard dental tissues and methods for their prevention; errors that occur in the treatment of dental caries, non-carious lesions of hard dental tissues, methods for their prevention and elimination	plan the treatment of dental caries, non-carious lesions of hard dental tissues; - identify, eliminate and take measures to prevent complications in the treatment of dental caries, non-carious lesions of hard dental tissues; treat caries using non-invasive and invasive methods to	- methods of examination of patients with caries and other diseases of hard dental tissues; methods of remineralizing therapy, carious spot infiltration; methods of treatment of patients with dental caries

							preserve the viability of the pulp and restore the shape and function of the tooth in patients	
5	OPK-5	Able to conduct an examination of the patient in order to establish a diagnosis in solving professional problems.	Basic and additional methods of examination in the clinic of therapeutic dentistry. Classification of caries and non-carious lesions of hard dental tissues	ID-1OPK-5 Uses the algorithm of clinical laboratory and functional diagnostics in solving professional problems. ID-2OPK-5 Competently interprets the results of the main and additional methods of examination ID-3OPK-5 Uses modern classifications to make a final diagnosis	- a method of collecting information from dental patients - a method of examining dental patients - the etiology and pathogenesis of diseases of dental diseases - a modern classification, clinical symptoms of caries and non-carious lesions - modern methods of clinical and paraclinical diagnosis of caries and non-carious lesions of the teeth	- analyze and interpret the information received from patients - conduct examinations of dental patients - interpret the results of instrumental, laboratory examination of hard dental tissues	- the skills of obtaining information from dental patients) - the skills of primary examination in accordance with the current methodology - the skills of making a diagnosis - re-examination skills in accordance with the current methodology	
6	OPK-6	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	Methods for conducting remineralizing therapy, carious spot infiltration; methods of treatment of patients with dental caries; methods of treatment of patients with diseases of hard tissues of teeth of non-carious origin; methods of whitening vital teeth; methods of atraumatic preparation of carious cavities	ID-1OPK-6 Apply clinical recommendations (treatment protocols) on the provision of medical care ID-2OPK-6 Takes into account the clinical and pharmacological characteristics of the main groups of drugs when choosing	-standards of medical care for diseases - clinical picture, features of the course of complications of the carious process; - modern methods of treatment of caries and non-carious lesions; - the mechanism of action of the main groups of drugs; main	- use the necessary medical equipment - prescribe drug and non-drug therapy, taking into account the age and clinical picture of the disease - analyze the effect of drugs in terms of the totality of their pharmacological effects on the body -	- the skills to develop a treatment plan, taking into account the clinical picture of the disease - the skills of prescribing drug and non-drug therapy, taking into account the clinical picture of the disease - skills - skills in providing medical care in emergency	

				specific drugs for the treatment of caries and non-carious lesions of hard dental tissues ID-3OPK-6 Carries out the correct choice of filling material	properties and characteristics of modern filling materials used in the treatment of pathology of hard dental tissues.	evaluate the effectiveness and safety of drug and non-drug methods of treatment	situations - skills in assessing the effectiveness and safety of drug therapy skills in assessing the effectiveness and safety of non-drug methods of treatment
7	OPK-13	Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security	Organization and equipment of the dental office Examination of a dental patient in the treatment of caries and non-carious lesions of hard dental tissues Preparation of the oral cavity for the treatment of caries and non-carious lesions of hard dental tissues. Etiology, pathogenesis of dental caries. Epidemiology of dental caries. Clinic, diagnosis, differential diagnosis of dental caries. Treatment methods for dental caries.	ID-1OPK-12 Uses modern information and communication tools and technologies in professional activities. ID-2OPK-12 Complies with the rules of information security in professional activities.	-composition and purpose of the main elements of a personal computer, their characteristics; - concepts and classification of software - basics of probability theory and mathematical statistics; -	-use educational, scientific, popular science literature, the Internet for professional activities; - carry out statistical processing of experimental data;	- basic information transformation technologies: text, spreadsheet editors; - techniques of working on the Internet for professional activities; - medical-functional conceptual apparatus; - methods of processing text and graphic information
8	PC-1	Examination of the patient in order to establish a diagnosis	Methods of examining a dental patient: basic, (questioning, examination) additional (electroodontodiagnostics, X-ray examination), laboratory methods, special: index assessment of the condition of the teeth, periodontium. Medical record of a dental patient, filling rules. sections of the medical record.	ID-1PK-1 Competently interprets the results of collecting information from patients ID-2PK-1 Competently interprets the data of instrumental,	- Topographic anatomy of the head, maxillofacial region, features of blood supply, innervation and lymphatic system, structure of teeth, periodontium, oral mucosa, - age-related changes in the maxillofacial	- justify the need and scope of instrumental and laboratory studies; - justify the need and scope of additional examinations of patients (including radiographs, teleroentgenograms	- the skills of collecting complaints, anamnesis of the disease, anamnesis of life in dental patients with diseases of the oral mucosa and CCG; - skills of examination, probing

			<p>Caries classifications according to the intensity of the injury, according to the localization of the carious process in the dentition, according to the course of the disease, WHO classification, process development, Black's classification of carious cavities. according to the location of the carious lesion.</p>	<p>laboratory and functional studies ID-1PK-1 Takes into account the data of consultations of patients by medical specialists ID-1PK-1 Establishes the correct final diagnosis for diseases of the oral mucosa according to the accepted modern international classification of diseases</p>	<p>region, features of the impact on it of the external and internal environment -special and additional research methods for the differential diagnosis of dental diseases; - medical indications and contraindications to the use of X-ray and other methods of additional examination;</p>	<p>, radiovisiograms, orthopantomograms, tomograms (on film and digital media)) - conduct physical examinations and interpret their results; - conduct a general clinical examination; - justify the need to refer patients for consultation to specialist doctors</p>	<p>of teeth, palpation, percussion, thermometry; skills in reading the results of additional laboratory research methods</p>
9	PC-2	<p>Prescribing, monitoring the effectiveness and safety of non-drug and drug treatment</p>	<p>Clinical guidelines (treatment protocols) for the diagnosis of dental caries. Organization of medical care for patients with dental caries Characterization of algorithms and features of the use of medicines in the treatment of caries and non-carious lesions. Methods of remineralizing therapy. Characteristics of the algorithms and features of the implementation of non-drug care in the treatment of caries and non-carious lesions: ensuring proper oral hygiene, filling a carious defect. Classification and characteristics of the main filling materials used for the treatment of caries and non-carious lesions.</p>	<p>ID-1PK-2 Uses an algorithm for the use of medical technologies, specialized equipment and medical devices in the treatment of a dental patient ID-2PK-2 Competently uses drugs and other substances and their combinations in the treatment of caries and non-carious lesions of hard dental tissues.</p>	<p>-Groups of drugs, their pharmacokinetics, pharmacodynamics, drug compatibility - clinical picture, - the main methods of treatment (medical indications, contraindications, complications) of caries and non-carious lesions of hard dental tissues -principles, techniques and methods of anesthesia in dentistry -device principles and operating rules of modern medical</p>	<p>- Prescribe drug therapy for caries and non-carious lesions, taking into account the pharmacodynamics and pharmacokinetics of drugs - evaluate the effectiveness and safety of medical methods of treatment of hard dental tissues - evaluate the efficacy and safety of non-pharmacological treatments for caries and non-carious lesions</p>	<p>- application methods of drug treatment - physiotherapeutic methods of treatment of diseases of hard tissues of teeth - skills to provide qualified medical care to dental patients with diseases of hard dental tissues using modern methods of treatment approved for use in medical practice - Skills in providing medical care in emergency cases and urgent forms</p>

					products and equipment -standards of care for hard tissues of teeth of carious and non-carious origin		
10	PC-4	Carrying out and monitoring the effectiveness of sanitary and anti-epidemic and other preventive measures to protect public health	Sanitary and hygienic standards for the organization of dental therapeutic care. Algorithm for a preventive examination of a dental patient. Index assessment of the state of oral hygiene. Indices assessing caries resistance of enamel. Individualized caries prevention. The role of nutrition in the development of caries. Hygiene prophylactic. Controlled oral hygiene. Methods and means of remineralizing therapy. Invasive and non-invasive fissure sealing.	ID-1PK-4 Be able to develop plans for preventive and anti-epidemic measures ID-2PK-4 Complies with basic sanitary and hygienic rules that help prevent infectious diseases ID-3PK-4 Shows oncological alertness, conducting a thorough examination of a patient with diseases of the oral mucosa	-Principles of dispensary observation of persons with diseases of hard dental tissues -Features of specific and nonspecific prevention of infectious diseases -Features of prevention of oncopathology - Clinical picture, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their prevention - Fundamentals of preventive medicine aimed at improving the health of the population	- Carry out preventive examinations of various categories of citizens -Prevent caries and non-carious lesions - Apply methods of organizing primary prevention of dental diseases in any age group -use personal protective equipment	- Skills in conducting preventive examinations of the population - skills of carrying out measures for the prevention of diseases of hard tissues of teeth - skills to provide qualified medical care in the treatment of caries and non-carious lesions using modern methods of prevention approved for use in medical practice - skills of brief counseling on the prevention of caries and non-carious lesions
11	PC-5	Conducting sanitary and hygienic education among the population and medical workers in order to form a healthy lifestyle	Sanitary and hygienic education in the field of prevention of dental diseases. Definition, goals, objectives, forms, methods and means of dental education.	ID-1PK-5 is able to form in patients the motivation to lead a healthy lifestyle and give up bad habits ID-2PK-5 is able to motivate the patient to	The main criteria for a healthy lifestyle and methods for its formation Forms and methods of sanitary and hygienic education among the	Conduct health and hygiene education among patients (their relatives/legal representatives) and medical workers in order to promote a	The skills of teaching hygienic measures of a health-improving nature, which promote health and prevent the occurrence of diseases of hard dental tissues.

			Materials on dental education and principles for their development	prevent and treat dental diseases.	population and medical workers The main hygienic measures of a health-improving nature that promote health and prevent diseases	healthy lifestyle To form in patients (their relatives/legal representatives) behavior aimed at maintaining and improving the level of health	Compliance with the principles of medical ethics and deontology in working with patients (their relatives/legal representatives), colleagues
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3. The place of discipline in the structure of the educational program

The discipline belongs to the mandatory part of Block 1 of the Federal State Educational Standard of Higher Education in the specialty 31.05.03 Dentistry.

Types of tasks of professional activity that underlie the teaching of this discipline:

1. Medical
2. Organizational and managerial
3. Research

4. Volume of academic discipline and types of educational work.

No. No. p/n	Type of work	Total credit units	Total hours	Semesters		
				four	5	6
				hours	hours	hours
one	2	3	four	5	6	7
one	Contact work of students with teacher (total), including:	-	196	70	48	78
2	Lectures (L)	-	32	ten	eight	fourteen
3	Clinical Practice (PP)	-	164	60	40	64
four	Seminars (C)	-				
5	Laboratory work (LR)	-				
6	Student Independent Work (SIW)	-	92	38	24	thirty
7	Type of intermediate attestations	credit (G)	-	-	-	-
		exam (E)	-	36	-	-
eight	TOTAL: General laboriousness	hours	324	108	72	144
		Z	9		3	2

5. The content of the discipline

No.p/n	semester number	Module section name	Types of educational activities, including independent work of students (in hours)				Forms of current progress control (by week of the semester)
			L	PZ	SRS	Total	
one	2	3	four	5	6	7	eight
one.	four	Organization and equipment of the dental office	2	ten	6	eighteen	S, TK, SZ, UZ
2.		Examination of a dental patient in the treatment of caries and non-carious lesions of hard dental tissues.	2	ten	6	eighteen	
3.		Preparation of the oral cavity for the treatment of caries and non-carious	2	twenty	ten	32	

		lesions of hard dental tissues.					
four.		Etiology, pathogenesis of dental caries. Epidemiology of dental caries.	four	ten	16	thirty	
5.	5	Clinic, diagnosis, differential diagnosis of dental caries.	2	eighteen	four	24	
6.		Treatment methods for dental caries.	2	eight	four	fourteen	
7.		Non-cariou lesions of the teeth that occur during the period of follicular development.	2	fourteen	12	28	
eight.		Non-cariou lesions of the teeth that occur after their eruption.	four	12	eight	24	
9.		Teeth whitening.	2	eight	four	fourteen	
ten.	6	Restoration of teeth.	2	eight	6	16	
eleven.		Complications and errors in the diagnosis and treatment of diseases of hard dental tissues.	2	12	four	eighteen	
12.		Diagnosis and treatment planning of caries and diseases of hard dental tissues.	2	12	four	eighteen	
13.		Therapeutic concept of dental restoration in case of caries and other diseases of hard dental tissues.	2	12	four	eighteen	
fourteen.		Prevention of complications and errors in the diagnosis and treatment of caries and other diseases of hard dental tissues.	2	ten	four	16	S, TK, SZ, UZ
fifteen.		Exam				36	
		total	32	164	92	324	

Note: S - interview, TK - test tasks, SZ - situational tasks, KZ - training tasks

6. The list of educational and methodological support for independent work of students in the discipline

No./n	semester number	Name of educational and methodical development
one	4, 5, 6	Guidelines for the implementation of independent extracurricular work of students in the discipline "Dentistry: cariesology and diseases of hard tissues of the teeth" / Tutorial / Remizova A.A., Biragova A.K., - Vladikavkaz -2020
2	4,5,6	Educational and methodological recommendations for students in the discipline "Dentistry: Cariesology and diseases of hard dental tissues. / Textbook / Remizova A.A., Biragova A.K., Vladikavkaz - 2020
3	4,5,6	Educational and methodological manual on therapeutic dentistry "Application of the Cofferdam system in the practice of a dentist." Remizova A.A., Turkina A.Yu., Makeeva M.K. – Vladikavkaz, 2019

7. Assisment materials for conducting intermediate certification of students in the discipline

No. /P	List of competencies	No. semester	Indicator(s) evaluation	Evaluation criterion(s)	Evaluation scale	Name FOS
1	2	3	four	5	6	7
1.	UK-1 UK-6 OPK-1 OPK-2 OPK-5 OPK-6 OPK-13 PC-1 PC-2 PC-4 PC-5	4,5,6	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	Test tasks. Exam tickets

8. The list of basic and additional educational literature necessary for mastering the discipline

Main literature

P/ No .	Name	The authors)	Year, place of publication	Number of copies	
				in library	at the department
one	2	3	four	5	6
1.	Therapeutic dentistry: textbook	ed. E. V. Borovsky	M.: MIA, 2004 2006 2007 2009	eight four one one	
2.	Dental instrumentation: atlas	Bazikyan E. A..	M. : GEOTAR-Media, 2015, 2017	one	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970440490.html
3.	Practical therapeutic dentistry: textbook. allowance	Nikolaev A.I., Tsepov L.M.	M.: MEDpress-inform, 2010 2013 2014 2019	3 eight 27 3	
4.	Therapeutic dentistry. P 1. Diseases of the teeth: a textbook	ed. E. A. Volkov	M.: GEOTAR-Media, 2013 2015	102	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970433393.html
5.	Therapeutic dentistry. Cariology and diseases of hard tissues of teeth. Endodontics: a guide to practical exercises: textbook. allowance	Maksimovsky Yu.M., Mitronin A.V.	M. : GEOTAR-Media, 2014	100	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970429198.html
6.	Oral Hygiene: A Study Guide	ed. A. A. Remizova	Moscow : GEOTAR-Media, 2021	100	
7.	Local anesthesia in dentistry: textbook. allowance	ed. E. A. Bazikyan	M. : GEOTAR-Media, 2014 2016	34 eight	
8.	Organization and equipment of a dental clinic, office. Sanitary and hygienic requirements. Ergonomic fundamentals of the work of a dentist: a textbook	ed. E. A. Bazikyan	Moscow: GEOTAR-Media, 2014, 2016	one	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970438022.html

additional literature

P/ No .	Name	The authors)	Year, place of publication	Number of copies	
				in library	at the department
one	2	3	four	5	6
1.	Therapeutic dentistry: national guidelines	ed. L.A. Dmitrieva	M.: GEOTAR-Media, 2009 2015	one one	

2.	Safe anesthesia in dentistry	S. A. Rabinovich [i dr.].	M. : GEOTAR-Media, 2018	3	
				"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970444788.html	
3.	Emergency care in dentistry.	Bichun A. B.	M. : GEOTAR-Media, 2014	3	
				"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970430354.html	
4.	Therapeutic dentistry. Cariesology and diseases of hard tissues of teeth. Endodontics: a guide to practical exercises: textbook. allowance	Maksimovsky Yu. M., Mitronin A.V.	GEOTAR-Media, 2014 2016	99 four	
5.	Local anesthesia in the outpatient practice of a dentist: a textbook.	Kozlova M.V.	Moscow : GEOTAR-Media, 2021	5	
				"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970458945.html	
6.	Cariesology: textbook.-method. allowance	Gatsalova A. O. [i dr.].	Vladikavkaz: FGBOU VO SOGMA Ministry of Health of the Russian Federation; CPI IP Tsopanov A.Yu., 2017	3	
7.	Sanitary and hygienic regime in therapeutic dental rooms (departments): textbook. allowance	Nikolaev A. I., Tsepov L. M., Nakonechny D. A..	M.: MEDpress-inform, 2012	one	
8.	Dictionary-reference book of medical dental terms and concepts	ed. I. M. Rasulov	M. : Pero, 2019	one	
9.	Propaedeutic dentistry: textbook	ed. E. A. Bazikyan	M.: GEOTAR-Media, 2008, 2010	92	
				"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970414804.html	



9. List of resources of the information and telecommunication network "Internet" necessary for mastering the discipline

No.	Resource name	Website address
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p / p		
one	ModernLib - electronic library,	http://modernlib.ru
2	Russian Dental Portal.	www.stom.ru
3	Electronic books on dentistry.	www.web-4-u.ru/stomainfo
four	Periodontology	https://www.parodont.ru/jour
5	Medical literature on dentistry.	www.mmbook.ru
6	Information dental resource.	denta-info.ru
7	Information resource for students of medical universities	www.studmedlib.ru
eight	Federal Electronic Medical Library (FEMB)	feml.scsml.rssi.ru/feml

10. Guidelines for students on the development of the discipline.

Training consists of contact work (196 hours), including a lecture course (32 hours) and practical classes (164 hours) and independent work (92 hours). The main study time is allocated for practical work on the assimilation of theoretical knowledge, the acquisition of practical skills and abilities.

When studying an academic discipline, it is necessary to use the entire resource of basic and additional educational literature, lecture material, visual aids and demonstration material and master the practical skills acquired in the course of working with demonstration visual aids, working with patients and solving situational problems.

Practical classes are conducted in the form of preclinical and clinical practice. Preclinical practice is carried out in classrooms with the use of video and photographic materials, in phantom classes, situational tasks are solved. Then the analysis of clinical patients is carried out.

In accordance with the requirements of the Federal State Educational Standard of Higher Education, interactive forms of conducting classes are widely used in the educational process (developing and problem-based learning in the form of role-playing games, practicing practical skills on phantoms, analyzing a specific situation, discussing a theoretical analysis of a topic, multimedia learning). The proportion of classes conducted in interactive forms is at least 10% of classroom classes.

Independent work of students implies preparation for seminars and practical classes and includes: work with visual materials, educational basic and additional literature, Internet resources, writing a case history, an essay.

Work with educational literature is considered as a type of educational work in the discipline "Dentistry" and is performed within the hours allotted for its study (in the IWS section).

Each student is provided with access to the library funds of the Academy and the department.

Methodological recommendations for students and methodological instructions for teachers have been developed for each section of the academic discipline.

During the study of the discipline, they independently conduct an examination of patients, draw up a medical history and submit an abstract.

Writing an essay contributes to the formation of skills in working with educational literature, the systematization of knowledge and contributes to the formation of general cultural and professional skills.

Writing an educational medical history forms the ability to analyze medical problems, contributes to mastering the culture of thinking, the ability to correctly formulate its results in writing, the formation of a systematic approach to the analysis of medical information, and the perception of innovations.

The work of a student in a group forms a sense of collectivism and sociability.

Teaching students contributes to the development of their communication skills with the patient, taking into account the ethical and deontological characteristics of pathology and patients. Independent work with patients contributes to the formation of professional behavior, accuracy, discipline.

The initial level of knowledge of students is determined by testing, the current control of mastering the subject is determined by an oral survey during classes, during clinical reviews, when solving typical situational problems and answering test tasks.

At the end of the study of the module, an intermediate control of knowledge is carried out by interviewing, using test control and solving situational problems.

11. The list of information technologies used in the implementation of the educational process in the discipline:

1. Microsoft office
2. Microsoft PowerPoint
3. TestOfficePro testing software
4. Internet Explorer

12. Description of the material and technical base necessary for the implementation of the educational process in the discipline

The Department of Dentistry No. 3 is located on the basis of the SOGMA dental clinic (Kirov St., 66). The total area used by the department for the educational process is 283 m².

The department has: phantom class (57 sq. m²),
educational and treatment room No. 13 - 18.4 m² (one installation);
educational and treatment room No. 14 joint. with a training room - 21.6 m². (one installation);
educational and treatment room No. 15 joint. with a study room -81 m². (four settings);
educational and treatment room No. 25 joint. with a training room (three installations) -26.2 m²;
educational and treatment room No. 26 together with the office of the head of the department 31 m²(two installations);
educational and methodical room No. 17 (10 m²) ;
assistant - 9 m².
(Corridor 2nd floor - 15.3 m². Corridor 3rd floor - 14.3 m²)

Part of the classes is held in the educational building No. 2 on the territory of the Federal State Budgetary Educational Institution of Higher Education SOGMA, in classrooms allocated for this purpose.

No./P	equipment identification	Quantity	Technical condition
one	2	3	four
Special equipment			
one	notebook	one	good
2	projector	one	good
3	PC	3	good
four	Dental units	12	good
phantoms			
one	Dental phantom units	fifteen	satisfactory
dummies			
one	Preparation jaws	12	satisfactory

13. Conducting educational activities using e-learning and distance learning technologies

In the context of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow training sessions in full-time mode, it is possible to study this discipline or part of it using e-learning and distance learning technologies.

Teaching discipline in the situations described above will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations,

articles, additional materials, tests and various tasks. When conducting training sessions, current monitoring of progress, as well as intermediate certification of students, the platforms of the electronic information and educational environment of the academy and / or other e-learning systems recommended for use in the academy, such as Moodle, Zoom, Webinar, etc., can be used.

Lectures can be presented in the form of audio, video files, "live lectures", etc.

Conducting seminars and practical classes is possible on-line in both synchronous and asynchronous modes. Seminars can be held in the form of web-conferences.