

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
" STOMATOLOGY: ENDODONTICS "**

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

Stom-21-02-22

Stom-21-03-23,

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

The work program of the discipline was 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

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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
one	2	3	four	5	6	7	eight
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 pulp and periodontal diseases - methods of clinical examination of patients with pulp and periodontal pathology; - methods of diagnostics, prevention and therapeutic treatment pulp and periodontal pathology - Causes of complications diagnosis and treatment of pulp and periodontal diseases	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 performance based on self-assessment	- 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

3	OPK-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	Examination of a dental patient with pathologypulp and periodontium. Iatrogenicity in dental practice. Ergonomics and deontological principles in the treatment of pulp and periodontal diseases.	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 pulpitis and periodontitis 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 pulp and periodontal diseases ID-2OPK-2 Able to prevent and eliminate complications arising in the treatment of pulp and periodontal diseases	causes of complications in therapeutic practice in the treatment of pulp and periodontal diseases, and ways to prevent them; errors that occur in the treatment of pulp and periodontal diseases, methods for their prevention and elimination	plan the treatment of pulpitis and periodontitis; - identify, eliminate and take measures to prevent complications in the treatment of pulpitis and periodontitis; to treat pulpitis and periodontitis using non-invasive and invasive methods to preserve the viability of the pulp and restore the shape and function of the tooth in patients	- methods of examination of patients with pulpitis and periodontitis; methods of endodontic treatment
5	OPK-5	Able to conduct an examination of the patient in order to establish a diagnosis in	Basic and additional methods of examination in the clinic of therapeutic dentistry. Classification of pulp and periodontal diseases	ID-1OPK-5 Uses the algorithm of clinical laboratory and functional diagnostics in solving professional problems.	- a method of collecting information from dental patients - a method of	- analyze and interpret the information received from patients - conduct examinations	- the skills of obtaining information from dental patients) - the skills of primary

		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	examining dental patients - the etiology and pathogenesis of diseases of dental diseases - a modern classification, clinical symptomspulpitis and periodontitis - modern methods of clinical and paraclinical diagnosticspulpitis and periodontitis	of dental patients - interpret the results of instrumental, laboratory examination of hard tissues of teeth, pulp and periodontium	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	Treatment methods for patients with pulp and periodontal diseases; methods of whitening devital teeth; methods of instrumental and drug treatment of root canals. Modern methods of root canal obturation.	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 specific drugs forpulpitis and periodontitis ID-3OPK-6 Carries out the correct choice of filling material for root canal obturation	-standards of medical care for diseases -clinical picture, features of the course of complications of the carious process; - modern methods of therapy of pulpitis and periodontitis; - the mechanism of action of the main groups of drugs; main properties and characteristics of modern filling materials used in the treatment of pulpitis and periodontitis	- 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 - evaluate the effectiveness and safety of drug and non-drug methods of treatment	- skills in developing a treatment plan taking into account the clinical picture of the disease - skills in prescribing drug and non-drug therapy, taking into account the clinical picture of diseases - skills - skills in providing medical care in emergency 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 with diseases of the pulp and periodontium Preparation of the oral cavity for endodontic treatment Etiology, pathogenesis of caripulpitis and periodontitis. Clinic, diagnostics, differential diagnostics of pulpitis and periodontitis.	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. Classification of pulp and periodontal diseases	ID-1A / 01.7 Competently interprets the results of collecting information from patients ID-2A / 01.7 Competently interprets the data of instrumental, laboratory and functional studies ID-1A / 01.7 Takes into account the data of consultations of patients by medical specialists ID-1A/01.7Establishes the correct final diagnosis for diseases of the oral mucosa according to the accepted modern international classification of diseases	- 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 region, features of the impact on it of the external and internal environment -special and additional research methods for the differential diagnosis of dental	- justify the need and scope of instrumental and laboratory studies; - justify the need and scope of additional examinations of patients (including radiographs, teleroentgenograms, 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	- 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 of teeth, palpation, percussion, thermometry; skills in reading the results of additional laboratory research methods

					diseases; - medical indications and contraindications to the use of X-ray and other methods of additional examination;		
9	PC-2	Prescribing, monitoring the effectiveness and safety of non-drug and drug treatment	<p>Clinical recommendations (treatment protocols) for the diagnosis of pulpitis, periodontitis.</p> <p>Organization of medical care for patients with pulpitis and periodontitis</p> <p>Characterization of algorithms and features of the use of medicines in the treatment of pulpitis and periodontitis.</p> <p>Methods of instrumental processing of root canals.</p> <p>Characteristics of the algorithms and features of the implementation of non-drug care in the treatment of pulpitis and periodontitis.</p> <p>Classification and characteristics of the main filling materials used for the treatment of pulpitis and periodontitis.</p>	<p>ID-1 PC-2 Prescribes drug therapy for diseases in accordance with existing medical indications, taking into account the pharmacodynamics and pharmacokinetics of drugs</p> <p>ID-2 PC-2 Prescribes non-drug therapy in accordance with medical indications</p> <p>ID-3 PC-2 Evaluates the effectiveness and safety of drug treatments</p> <p>ID-4 PC-2 Assesses the efficacy and safety of non-drug treatments</p> <p>ID-5 PC-2 Analyzes the effect of drugs in terms of the totality of their pharmacological effects</p> <p>ID-6 PC-2 Analyzes the effect of non-drug methods of treatment in terms of the totality of their properties</p> <p>ID-7 PC-2 Makes up prescriptions for medicines, write out prescriptions for diseases,</p>	<p>-Groups of drugs, their pharmacokinetics, pharmacodynamics, drug compatibility</p> <p>- clinical picture,</p> <p>- basic methods of treatment (medical indications, contraindications, complications) of pulpitis and periodontitis</p> <p>- principles, techniques and methods of anesthesia in dentistry</p> <p>-device principles and operating rules of modern medical products and equipment</p> <p>-standards of care for pulpitis and periodontitis</p>	<p>- Prescribe drug therapy for caries and non-carious lesions, taking into account the pharmacodynamics and pharmacokinetics of drugs</p> <p>- evaluate the effectiveness and safety of medical methods of treatment of hard dental tissues</p> <p>- evaluate the effectiveness and safety of non-drug methods of treatment of pulpitis and periodontitis</p>	<p>- application methods of drug treatment</p> <p>- physiotherapeutic methods of treatment of endodontic diseases</p> <p>- skills to provide qualified medical care to dental patients with diseases of the pulp and periodontium using modern methods of treatment approved for use in medical practice</p> <p>- Skills in providing medical care in emergency cases and urgent forms</p>

				<p>pathological processes and conditions</p> <p>ID-8 PC-2 Uses medicines, medical devices (including dental materials, tools)</p> <p>ID-10 PC-2 Determines the methods of administration, regimen and dose of drugs</p> <p>ID-11 PC-2 Develops a treatment plan taking into account the course of the disease, selects and prescribes drug therapy, uses methods of non-drug treatment</p> <p>ID-12 PC-2 Prescribes drugs for the treatment of dental diseases</p> <p>ID-16 PC-2 Carries out treatment of diseases of hard tissues of teeth, pulp and periapical tissues, periodontium, oral mucosa.</p>			
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.	<p>ID-1 PC-4 Conducts preventive examinations of various categories of citizens</p> <p>ID-2 PC-4 Prevents diseases of the teeth, periodontium, oral mucosa, lips, bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint, salivary glands</p>	<p>-Principles of dispensary observation of persons with diseases of hard dental tissues</p> <p>-Features of specific and nonspecific prevention of infectious diseases</p> <p>-Features of prevention of</p>	<p>- Carry out preventive examinations of various categories of citizens</p> <p>-Prevent caries and non-carious lesions</p> <p>- Apply methods of organizing primary prevention of dental diseases in any age group</p> <p>-use personal protective equipment</p>	<p>- Skills in conducting preventive examinations of the population</p> <p>- skills of carrying out measures for the prevention of diseases of hard tissues of teeth</p> <p>- skills to provide qualified medical care in the</p>

				<p>ID-3 PC-4 Performs the prescribed actions when carrying out anti-epidemic measures for infectious diseases (submission of an emergency notification of the focus of infection, identification and observation of contact persons)</p> <p>ID-4 PC-4 Uses methods of primary and secondary prevention</p> <p>ID-5 PC-4 Applies methods of organizing primary prevention of dental diseases in any age group</p> <p>ID-6 PK-4 Uses personal protective equipment</p>	<p>oncopathology</p> <p>- Clinical picture, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their prevention</p> <p>- Fundamentals of preventive medicine aimed at improving the health of the population</p>		<p>treatment of caries and its complications using modern methods of prevention approved for use in medical practice</p> <p>-skills in brief counseling on the prevention of caries and its complications</p>
11	PC-5	<p>Conducting sanitary and hygienic education among the population and medical workers in order to form a healthy lifestyle</p>	<p>Sanitary and hygienic education in the field of prevention of dental diseases. Definition, goals, objectives, forms, methods and means of dental education. Materials on dental education and principles for their development</p>	<p>ID-1 PC-5 Conducts health and hygiene education among patients (their relatives/legal representatives) and medical workers in order to form a healthy lifestyle</p> <p>ID-2 PC-5 Assesses the physical development and functional state of the patient's body</p> <p>ID-3 PC-5 Forms behavior in patients (their relatives/legal representatives) aimed at maintaining and improving the level of health</p>	<p>The main criteria for a healthy lifestyle and methods for its formation</p> <p>Forms and methods of sanitary and hygienic education among the population and medical workers</p> <p>The main hygienic measures of a health-improving nature that promote health and prevent diseases</p>	<p>Conduct health and hygiene education among patients (their relatives/legal representatives) and medical workers in order to promote a healthy lifestyle</p> <p>To form in patients (their relatives/legal representatives) behavior aimed at maintaining and improving the level of health</p>	<p>The skills of teaching hygienic measures of a health-improving nature, which promote health and prevent the occurrence of diseases of hard dental tissues. Compliance with the principles of medical ethics and deontology in working with patients (their relatives/legal representatives), colleagues</p>

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. Scope of discipline

No. p/n	Type of work	Total credit units	Total hours	Semesters		
				#6	#7	#8
				hours	hours	hours
one	2	3	four	5	6	7
one	Contact work of students with teacher (total), including:	-	200	92	54	54
2	Lectures (L)	-	32	twenty	6	6
3	Clinical Practice (PP)	-	168	72	48	48
four	Seminars (C)					
5	Laboratory work (LR)					
6	Student Independent Work (SIW)	-	88	52	eighteen	eighteen
7	Type of intermediate certification	credit (G)	-	-	-	-
		exam (E)	-	36	-	-
eight	TOTAL: Total labor intensity	hours	324	144	72	108
		Z	9	four	2	3

5. The content of the discipline

No. p / p	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
one.	6	The structure and functions of the pulp. Etiology, pathogenesis of inflammation of the dental pulp. Classification of diseases of the pulp.	2	6	four	12	S, TK, SZ, UZ
2.		Methods for diagnosing inflammation of the pulp.	2	6	four	12	S, TK, SZ, UZ
3.		Clinic, pathological anatomy, diagnosis, differential diagnosis of pulpitis.	2	12	6	twenty	S, TK, SZ, UZ
four.		Etiology, pathogenesis of inflammation of the apical periodontium.	2	ten	6	eighteen	S, TK, SZ, UZ

5.		Methods for diagnosing apical periodontitis.	four	6	four	fourteen	S, TK, SZ, UZ
6.		Clinic, diagnosis, differential diagnosis of apical periodontitis.	four	eighteen	12	34	S, TK, SZ, UZ
7.		Methods of treatment of pulpitis and apical periodontitis.	four	ten	four	eighteen	S, TK, SZ, UZ
eight.	7	Emergency care in endodontics.	2	16	eight	26	S, TK, SZ, UZ
9.		Endodontic preparation for surgical treatment of pulp and periodontal diseases.	2	16	eight	26	S, TK, SZ, UZ
ten.		Mistakes and complications in the diagnosis, treatment of pulpitis and periodontitis.	2	16	6	24	S, TK, SZ, UZ
eleven.	eight	Prevention of emergency conditions in endodontics.	2	eighteen	6	26	S, TK, SZ, UZ
12.		Restoration of teeth after endodontic treatment.	2	twenty	ten	32	S, TK, SZ, UZ
13.		Ways to prevent and eliminate errors and complications in endodontics.	2	fourteen	ten	26	S, TK, SZ, UZ
Total			32	168	88	288	

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	semest er number	Name of educational and methodical development
1	6,7,8	Educational and methodical manual on the discipline "Dentistry: endodontics" for students of the Faculty of Dentistry. 6, 7, 8 semester A.A. Remizova, I.E. Kazieva – Vladikavkaz, 2020
2		Methodical manual for practical classes in the discipline "Dentistry: endodontics" for teachers A.A. Remizova, I.E. Kazieva– Vladikavkaz, 2020
3		Guidelines for the implementation of independent extracurricular work of students in the discipline "Dentistry: endodontics" 6, 7, 8 semester A.A. Remizova, I.E. Kazieva– Vladikavkaz, 2020

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

No./n	List of competencies	No. semester	Indicator(s) evaluation	Evaluation criterion(s)	Evaluation scale	Name FOS
one	2	3	four	5	6	7
one	UK-1 UK-6 OPK-1 OPK-2 OPK-5 OPK-6 OPK-13 PC-1 PC-2 PC-4 PC-5	6,7,8	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	Exam tickets. Test tasks. Situational tasks

8. The list of basic and additional educational literature necessary for mastering the discipline
9.

p / n o.	Name	The authors)	Year, place of publication	Number of copies	
				in library	on the department
o n e	2	3	four	5	6
Main literature					
o n e	Therapeutic dentistry: textbook	ed. E.V. Borovsky	M.: MIA, 2004 2006 2007 2009	eight four one one	
2	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
3	Therapeutic dentistry. Cariesology 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
fo ur	Safe anesthesia in dentistry	S. A. Rabinovich [i dr.].	M.: GEOTAR-Media, 2018	3	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970444788.html
5	Endodontics: textbook. allowance	ed. E.A. Bazikyan	M. : GEOTAR-Media, 2016	2	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970435571.html
additional literature					
o n e	Dental instrumentation: atlas	Bazikyan E. A..	Moscow: GEOTAR-Media, 2015, 2017	one	"Student Advisor" http://www.studmedlib.ru/book/ISBN9785970440490.html

2	Therapeutic dentistry: national guidelines	ed. L.A. Dmitrieva	M.: GEOTAR-Media, 2009 2015	one one	
3	Guide to practical exercises in therapeutic dentistry: textbook. allowance	ed. F. Yu. Daurova	M. : Higher Education and Science, 2007	58	2
fo ur	Dictionary-reference book of medical dental terms and concepts	Ed. I. M. Rasulova.	M. : Pero, 2019	one	
5	Pulpitis. Periodontitis: study method. recommendations for practical exercises for teachers and students of the Faculty of Dentistry. 6 semester	comp.: F.E. Dzizzoeva, O.M. Mrikaeva	Vladikavkaz, 2007	27	one
6	Endodontic treatment: method. development	comp. O. M. Mrikaeva	Vladikavkaz, 2007	74	



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

No . p / p on e	Resource name	Website address
2	ModernLib - electronic library,	http://modernlib.ru
3	Russian Dental Portal.	www.stom.ru
fo ur	Electronic books on dentistry.	www.web-4-u.ru/stomatinfo
5	Aesthetic restorations of teeth.	www.esthetics.ru
6	Medical literature on dentistry.	www.mmbook.ru
7	Information dental resource.	denta-info.ru
	Information resource for students of medical universities	www.studmedlib.ru

10. Guidelines for students on mastering the discipline

Training consists of contact work (200 hours), including a lecture course (32 hours) and practical exercises (168 hours) and independent work (88 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, 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 (developmental and problem-based learning in the form of role-playing games, mastering practical skills on phantoms, analysis of a specific situation, discussion during a theoretical analysis of a topic, multimedia training). 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 specialty "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, responsibility, 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.

11. 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

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.