

**Federal State Budgetary Educational Institution higher education NORTH
OSSETIAN STATE MEDICAL ACADEMY Ministry of Health of the Russian Federation**

APPROVED



Rector of FSBEI HE NOSMA

MOH RUSSIA

O.V. Remizov

"24" May 2023

**WORKING PROGRAM OF THE DISCIPLINE
"DENTISTRY: LOCAL ANESTHESIOLOGY AND ANESTHESIOLOGY IN
DENTISTRY"**

the main professional educational program of higher education -
specialty programs in the specialty 31.05.03 Dentistry,
event 05/24/2023

Form of study full-time

The term of development of OPOP in 5 years
(standard training period)

Department _____ of Dentistry No. 2

When developing the work program, the disciplines are based on:

1. Federal State Educational Standard for the specialty 31.05.03 Dentistry, approved by the Ministry of Education and Science of the Russian Federation on 12.08.2020, No. 984

2. The curriculum of the OPOP in the specialty 31.05.03 Dentistry

СТОМ -21-01-21 ИИ

СТОМ-21-02-22 ИИ

СТОМ-21-03-23 ИИ,

approved by the Academic Council of the Federal State Budgetary Educational Institution of the Ministry of Health on May 24, 2023, Protocol No. 6

The working program of the discipline was approved at the meeting of the Department of Dentistry No. 1 dated May 18, 2023, Protocol No. 1.

The working program of the discipline was approved at the meeting of the central coordinating educational and Methodological Council on May 23, 2023, Protocol No. 4

The working program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of the Ministry of Health of the Russian Federation on May 24, 2023, Protocol No. 6

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CONTENT OF THE WORK PROGRAM

1. name of the discipline;
2. a list of planned results of training 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 the discipline in credit units with an indication of the number of academic or astronomical hours allocated for contact work of students with the teacher (by type of training sessions) and for independent work of students;
5. the content of the discipline is structured according to topics (sections) with an indication of the number of academic or astronomical hours allocated to them and the types of training sessions.
6. the list of educational and methodological support for independent work of students in the discipline;
7. fund of assessment funds for conducting intermediate certification of students in the discipline;
8. a list of basic and additional educational literature required for mastering the discipline;
9. the list of resources of the information and telecommunication network "Internet", necessary for mastering the discipline;
10. methodological guidelines for mastering the discipline for students;
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.

2. The list of planned results of training in the discipline and the results of mastering the educational program

№ n/n	a Number / index of competence	Content of the competence (or part thereof)	Topic of the lesson (section)	Indicators of achievement of competencies	
					k

1	2	3	4	5	
1	UK-1	Be able of critical analysis of problem situations based on a systematic approach, develop a strategy	<ul style="list-style-type: none"> - preparations for local anesthesia - methods of local anesthesia in dentistry - Causes of complications during local anesthesia - emergency care and resuscitation in the practice of a dentist 	ID-1UK-1 Analyzes the problem situation and implements it decomposition into separate tasks ID-2UK-1 Develops a strategy for solving problems ID-3UK-1 Forms possible solutions to problems	<ul style="list-style-type: none"> - methods abstract thinking i - establishing methods o - research b - dissection - object (an - by examin - subject in - the unity o - (synthesis
2	UK-1	Capable of identifying and implementing priorities own activities and ways to improvement through self-assessment and lifelong learning		ID-1UK-6 Assesses own resources and their limits (personal, situational, temporary), optimally uses them for the successful completion of the assigned task ID-2UK-6Sets priorities personal growth and ways improvement of own self-assessment activities	<ul style="list-style-type: none"> - potential and weak - personalit - effective - self-learn - methods - effective t - planning; - major tim

3	OPK-1	Able to implement moral and legal regulations, ethical and deontological principles in professional activities	Diagnosis dental patient with maxillofacial pathology. iatrogeny in dental practice. Ergonomics and deontological principles in dental practice.	ID-1OPK-1Complies with moral and legal standards in professional activity. ID-2OPK-1capable evaluate social - 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 interactions, respecting the principles of ethics and deontology	- professional ethics and deontology of medical activities; -the role of informed consent	- communicate with patients and colleagues; - work in a team in the diagnosis and treatment of various types of pathologies of the maxillofacial area	- communication skills with colleagues and patients
4	OPK- 2	Able to analyze the results of their own activities to prevent professional errors	Urgent conditions. Intensive therapy of somatic complications. Legal responsibility of the dentist.	ID-1OPK-2Able to analyze errors during local anesthesia ID-2OPK-2Able to prevent and eliminate complications arising from local anesthesia	- the reasons complications during local anesthesia, and ways to warnings; mistakes, arising from the treatment of inflammatory diseases of the maxillofacial area, methods of their prevention and elimination	- choose an anesthetic taking into account the patient's allergic history; - reveal, remove and take preventive measures complications	- methods of prevention and treatment of general and local complications of local anesthesia

	OPK-5	Capable of examining the patient to determine diagnosis when deciding professional tasks.	Basic and additional methods of examination in the clinic of surgical dentistry.	ID-1OPK-5 Uses the algorithm of clinical laboratory and functional diagnostics when solving professional tasks. ID-2OPK-5 Competently interprets the results of basic and additional examination methods ID-3OPK-5 Uses modern classification for final diagnosis	- methodology for collecting information from dental patients - methods of examination of dental patients - etiology and pathogenesis of diseases - modern classification, clinical symptoms of diseases of the maxillofacial area - modern methods clinical and paraclinical diagnostics diseases of the maxillofacial area	- analyze and interpret the information received from patients - conduct surveys dental patients - interpret results instrumental, laboratory examination of maxillofacial pathologies	- acquisition skills information from dental patients) - skills of primary examination in accordance with the current methodology - staging skills diagnosis - re-examination skills in accordance with the current methodology
6	OPK-6	Able to appoint, exercise control efficiency and safety non-drug and drug treatment in solving professional tasks	-methods of treatment of patients with inflammatory diseases of the maxillofacial area; - methods of treatment of contracture n/h; -methods of treatment of ankylosis of the temporomandibular joint	ID-1OPK-6Applies clinical recommendations (treatment protocols) for medical care ID-2OPK-6 Considers clinical pharmacological characteristics major drug groups drugs when choosing specific medicines for TMJ pathologies ID-3OPK-6 Carries out the	-standards medical assistance for diseases - clinical picture, features of the flow complications of the inflammatory process; -modern methods of therapy for TMJ pathology; -mechanism of action main groups of drugs;	- use the necessary medical equipment - assign drug and non-drug therapy, taking into account age and clinical picture diseases - analyze action medicines according to the totality of their pharmacological effects on the body - evaluate	assignment skills medical and non-drug therapy, taking into account clinical picture diseases - skills - skills rendering medical care in emergency conditions - skills for evaluating the effectiveness and safety drug therapy skills to

				correct choice of drugs for the treatment of TMJ pathologies	main properties and characteristics modern medicines, used in the treatment of TMJ pathology	efficiency and safety pharmacological and non-pharmacological methods of treatment	assess the effectiveness and safety of non-drug methods treatment
7	OPK-13	Able to solve standard professional tasks activities using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security	Organization and equipment of a surgical dental office. Survey dental patient with acute and chronic diseases of the maxillofacial area	ID-1OPK-12 Uses modern information and communication means and technologies in professional activities. ID-2OPK-12Complies with the rules information security in professional activity.	- composition and purpose of the main elements personal computer, their characteristics; - concepts and classification software - basics of probability theory and mathematical statistics; -	- use educational, scientific, popular science literature, the Internet for professional activities; statistical processing experimental data;	- basic information transformation technologies: text, spreadsheet editors; - Internet technology for professional activity; - medical functional conceptual apparatus; - methods of processing text and graphics information
8	PC-1	Conducting a diagnostic patient in order to establish diagnosis	Methods diagnostic for dental patient: basic, (questioning, examination) additional (computer topography, radioisotope, radiological, functional study), laboratory methods, spec. Medical record of a dental patient, rules fill. sections of the medical record. Classifications of diseases of the maxillofacial area	ID-1A / 01.7 Competently interprets the results of the collection information from patients ID-2A / 01.7 Competently interprets the data of instrumental, laboratory and functional research ID-1A/01.7 Accounts for patient particles ID-1A / 01.7 Establishes the correct human diagnosis in diseases of the maxillofacial area, accepted in the modern world disease protection	- Topographic anatomy of the head, maxillofacial area, features of blood supply, innervation, muscles, lymphatic systems, structure of teeth, periodontium, oral mucosa, - age-related changes maxillofacial area, peculiarities the impact on it of the external and internal environment - special and additional methods studies for the differential diagnosis	- justify the need and scope instrumental and laboratory research; - justify the need and scope additional examinations of patients (including radiographs, teleroentgenograms, radiovisiograms, orthopantomograms, tomograms (on film and digital carriers)) - conduct physical examinations and interpret their results; - conduct a general clinical	- skills collection of complaints, anamnesis of the disease, life history in dental patients with diseases of the maxillofacial area - Inspection skills palpation,; results reading skills additional laboratory research methods

					of dental diseases; - medical indications and contraindications for the use of X-ray and other methods additional examination;	survey; - justify the need to refer patients to consultation with doctors specialists	
9	PC-2	Purpose, control of efficiency and safety non-drug and drug treatment	Clinical and pharmacological characteristics of local anesthetics used in dentistry The choice of local anesthetic according to the clinical situation. Vasoconstrictors. Types and methods of local anesthesia.	ID-1PK-2 Prescribes drug therapy for diseases in accordance to existing medical indications, taking into account the pharmacodynamics and pharmacokinetics drugs ID-2PK-2 Prescribes non-drug therapy in accordance with medical indications ID-3 PC-2 Evaluates efficacy and safety medical methods of treatment ID-4 PC-2 Evaluates efficacy and safety non-drug treatments ID-5 PC-2 Analyzes the effect of drugs on combination of their pharmacological effects ID-6 PC-2 Analyzes the action non-drug methods of treatment according to the totality of properties ID-7 PC-2 Compile prescriptions for medicinal drugs, write prescriptions	-Groups drugs, their pharmacokinetics, pharmacodynamics, drug compatibility - clinical picture, -basic treatments (medical indications, contraindications, complications), techniques and methods of anesthesia and in dentistry -principles devices and rules operation of modern medical devices and equipment -standards medical care for acute and chronic dental diseases	-Assign drug therapy for the treatment of acute and chronic dental diseases, taking into account pharmacodynamics and pharmacokinetics of drugs funds -evaluate efficiency and safety medical methods of treatment of acute and chronic dental diseases - evaluate efficiency and safety non-drug methods of treatment of acute and chronic dental diseases	- surgical methods of treatment - physiotherapeutic methods of treatment diseases of the maxillofacial area - rendering skills qualified medical care for dental patients with acute and chronic dental diseases contemporary methods of treatment approved for use in medical practice - rendering skills medical care in emergency cases and emergency forms

				<p>diseases, pathological processes and conditions</p> <p>ID-8 PC-2 Uses medicinal preparations, medical devices (including dental materials, tools)</p> <p>ID-10 PC-2 Determines the methods of administration, medication regimen and dosage</p> <p>drugs</p> <p>ID-11 PK-2</p> <p>Develops a treatment plan taking into account the course of the disease, selects, prescribes drug therapy, uses methods non-drug treatment</p> <p>ID-12 PC-2 Prescribes medicinal preparations for the treatment of dental diseases</p> <p>ID-16 PC-2 Treats diseases of the maxillofacial area</p>			
10	PC-4	Carrying out and monitoring the effectiveness of sanitary and anti-epidemic and other preventive measures to protect public health	<p>Sanitary and hygienic standards for the organization of dental surgical care.</p> <p>Algorithm for a preventive examination of the dental the patient.</p>	<p>ID-1 PC-4 Conducts preventive inspections of various categories of citizens</p> <p>ID-2 PC-4 Conducts prophylaxis diseases of the teeth, periodontium, oral mucosa, lips, jaw bone tissue, peripheral nervous system maxillofacial areas, temporal jaw joint, salivary glands</p> <p>ID-3 PC-4 Performs the prescribed actions when</p>	<p>-Principles dispensary observation of persons with diseases</p> <p>hard tissues of teeth</p> <p>-Peculiarities specific and non-specific prevention of infectious diseases</p> <p>-Features of prevention of oncopathology</p> <p>- Clinical picture,</p>	<p>- Carry out preventive examinations of various categories of citizens</p> <p>- Carry out preventive maintenance diseases of the maxillofacial area</p> <p>- Apply methods of organizing primary prevention dental diseases in any age group</p> <p>- apply means personal protection</p>	<p>- carrying out skills preventive examinations of the population</p> <p>- carrying out skills preventive measures diseases hard tissues of teeth</p> <p>- rendering skills qualified medical care in the treatment of caries and its complications using modern methods of</p>

				taking anti-epidemic measures in case of infectious diseases (submission of an emergency notification about the focus of infection, identification and observation of contact persons)ИД-4 ПК-4 Uses methods of primary and secondary prevention ID-5 PC-4Applies methods of organizing primary prevention dental diseases in any age group ID-6 PC-4Applies funds personal protection	major symptoms diseases and borderline states maxillofacial region adults and children, their prevention - Fundamentals of preventive medicine aimed at strengthening public health		prevention, approved for use in medical practice - Skills in brief counseling on prevention acute and chronic pathologies of the maxillofacial area
11	PC-5	Maintaining sanitary and hygienic education among the population and medical workers in order to form healthy lifestyle	Preventive health education dental diseases. Definition, goals, objectives, forms, methods and means dental education. Materials on dental education and the principles of their development	ID-1PK-5 Conducts sanitary and hygienic education among patients (their relatives/legal representatives) and medical workers in order to promote a healthy lifestyle ID-2 PC-5 Assesses physical development and functional the state of the patient's body ID-3 PC-5 Forms in patients (their relatives/legal representatives) behavior aimed at maintaining and improving health	The main criteria for a healthy lifestyle and methods for its formation Forms and methods of sanitary hygiene education among the population and medical workers Basic hygiene measures health character, conducive to strengthening health and disease prevention	Carry out sanitary hygienic education among patients (their relatives/legal representatives) and medical employees in order to form healthy lifestyle Form at patients (their relatives/legal representatives) behavior, aimed at maintaining and improving the level of health	Hygiene training skills health promotion activities character, conducive to strengthening health and prevention of hard tissue diseases teeth. Compliance with the principles medical ethics and deontology in working with patients (their relative/legal representatives), colleagues

3. The place of discipline in the structure of the educational program

The discipline "Local anesthesia and anesthesiology in dentistry" is studied in the sixth semester and belongs to the basic part of Block 1 of the Federal State Educational Standard of Higher Education in the specialty Dentistry.

The training of students is carried out on the basis of the continuity of knowledge and skills obtained in the course of oral surgery.

4. Scope of discipline

№ n /	a Type of work		Total credits	Total hours	Semesters
					6
					hours
1	2		3	4	5
1	Contact work of students with teacher (total), including:			46	
2	Lectures (L)			10	10
3	Clinical Practice (PP)			36	36
4	Seminars (C)				
5	Laboratory work (LR)				
6	Student Independent Work (SIW)			26	26
7	Type of intermediate assessment	credit (H)			H
		exam (E)			
8	TOTAL: Total labor	hours		72	
		Z	2		

5. Content of the discipline

№ n /	a n / sem ester	a semester Name of the discipline section	Types of educational activities, including independent work of students (in hours)				Current performance monitoring forms
			L	PZ	SRS	Total H	
1.	VI	Preparations for local anesthesia	2	10	6	18	ML, S, DZ, PZ, T, KR, Pr
2.	VI	Methods of local anesthesia	4	6	8	18	ML, S, DZ, PZ, T, KR, Pr
3.	VI	Intensive therapy of somatic complications. The legal responsibility of the doctor.	2	10	6	18	ML, S, DZ, PZ, T, KR, Pr
4.	VI	Resuscitation measures in the practice of a dentist	2	10	6	18	ML, LT, S, DZ, PZ, T, KR, Pr, MG, SI
		TOTAL	8	40	24	72	

Note:

ML-multimedia lecture;

SI-independent study of topics reflected in the program, but considered in the classroom;

MG-method of small groups. Forms of current control

C-assessment based on the results of the interview (oral survey); DZ-checking the performance of written homework; LR-protection of laboratory works;

T-testing;

KR-control and independent work;

Pr-assessment of mastering practical skills (skills)

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

No./n	No. semester	Name of educational and methodical development
1	VI	Educational and methodological recommendations "LOCAL ANESTHESIOLOGY AND ANESTHESIOLOGY IN DENTISTRY" for students of the Faculty of Dentistry for out-of-class CRS. The authors: Toboev G.V., Esiev R.K.. Vladikavkaz, 2020

7. Fund of assessment tools for conducting intermediate certification of students in the discipline

No./n	List of competencies	Semester No	Evaluation indicator(s)	Evaluation criterion(s)	Evaluati n scale	FOS name
1	2	3	4	5	6	7
1	UK -1 UK -2 OPK -1 OPK-2 OPK - 5 OPK - 6 OPK -13 PC -1 PC-2 PC-4 PC-5	6	See evaluation standard quality of education, approved. By order of FGBOU VO SOGMA Ministry of Health of Russia dated July 10, 2018, №264/o	See evaluation standard quality of education, approved. By order of FGBOU VO SOGMA Ministry of Health of Russia dated July 10, 2018, №264/o	See evaluation standard quality of education, approved. By order of FGBOU VO SOGMA Ministry of Health of Russia dated July 10, 2018, №264/o	Test tasks; Control tasks

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

№	a no. Name	Author(s)	Year, place of publication	Number of copies.	
				in the bible	to the department.
1	2	3	4	5	6
Main literature					

1.	Surgical dentistry: textbook	V.V. Afanasiev.	M. : GEOTAR - Media, 2010. - 880 With.	101	1
2.	Surgical dentistry: textbook	T. G. Robustova	M. : Medicine, 2011.	62	1
Additional literature					
4.	General Anesthesia and Sedation in Dentistry: A Guide	IN AND. Stosh, S.A. Rabinovich and others.	M.: GEOTAR- Media, 2007	51	1

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

EBS "Student Advisor", access to textbooks:

1. <http://www.stom.ru/> - Russian dental portal
2. <http://www.edentworld.ru/> - Dental portal eDentWorld
3. <http://www.dentoday.ru/> - Electronic version of the newspaper "Dentistry Today"
4. <http://stomgazeta.ru/> - Archive of the publishing house "Poly Media Press"

10. Guidelines for students on mastering the discipline

Training consists of classroom lessons (46 hours), including a lecture course and practical exercises, and independent work (26 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 the 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.

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.

Guidelines for students and guidelines for teachers have been developed for each section of the 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. List of information technologies used in the implementation of the educational process in the discipline

Semester	Type of classes L, PR,S,	Educational technologies used (active, interactive)	Number of hours	% of interactive classes	Software list
VI	Lectures	LT, KOP	10	5	Multimedia installation: laptop, Microsoft Office projector PowerPoint; Acrobat Reader; Internet Explorer

VI	Workshops	PZ, MG, RI, SI	36	6	Information and legal system "Consultant" Information system "State Register of Drugs" Microsoft Office PowerPoint; Acrobat Reader
VI	Student Independent Work (SIW)	DZ S TK	26		Information and legal system "Consultant" Information system "State Register of Drugs" Microsoft Office PowerPoint; Acrobat Reader
VI	Подготовка к занятиям (ПЗ)	UZ Pr DZ S TK	12	5	Electronic library of the medical university "Student Advisor"
VI	Preparation for the current control (PTK)	T DZ S TK	10	5	Electronic library of the medical university "Student Advisor"
VI	Preparation for intermediate control (IPC)	T DZ S TK	4	5	scientific electronic library, search is carried out by thematic section, journal name, author. Contains a catalog

					of Russian and foreign publications. Occasionally hosts full-text access promotions. Registration required.
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12. Description of the material and technical base necessary for the implementation of the educational process in the discipline

№/ n	Equipment identification	Quantity	Technical condition
1	2	3	4
Special equipment			
1.	Multimedia complex (laptop, projector, screen)	1	Good
2.	Dental unit	1	Satisfactory
Phantoms			
3.	-	-	-
dummies			
4.	Jaw models	2	Satisfactory
5.	Skull	1	Satisfactory

13. Introduction of 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 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 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 online both in synchronous and asynchronous mode.
Seminars can be held in the form of web-conferences

