

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

WORKING PROGRAM

Name of the academic discipline: **ORAL SURGERY**

Specialty: **31.05.03 DENTISTRY**

Qualification: **DENTIST**

Department: **ORAL AND MAXILLOFACIAL SURGERY**

Mode of study: **FULL-TIME**


Labor intensity of the academic discipline: **396 academic hours**

The working program has been developed in accordance with the Federal State Educational Standard for the specialty 31.05.03 Stomatology, approved by Order of the Ministry for Education and Science of the Russian Federation No. 984 of August 12, 2020.


Developers of the work program:

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The program was reviewed and approved at the meeting of the department of Oral and Maxillofacial Surgery (Protocol No. 8, 01.03.2021)

Head of the Department of Oral and Maxillofacial
Surgery, MD, PhD, Professor _____ (Durnovo E.A.)
(signature) 

01.03.2021

AGREED
Deputy Head of EMA ph.d. of biology _____ Lovtsova L.V.
(signature) 

01.03.2021

1. The purpose and objectives of mastering the academic discipline «Oral Surgery» (hereinafter – the discipline)

1.1. The purpose of mastering the discipline: GC-1, GPC-6, PC-5, PC-6, PC-8, PC-9.

1.2. Tasks of the discipline:

1. Mastering the principles of organization of oral surgery department;
2. Development of diagnostic methods used in examination of patients with various inflammatory processes in the oral cavity;
3. Development of students' methods of treatment of various pathological processes in the oral cavity;
4. Mastering the practical skills needed to treat inflammatory processes localized in the oral cavity;
5. Formation of students' theoretical and practical skills in surgical treatment of patients with various inflammatory processes in outpatient polyclinic conditions;
6. Training in the examination of patients with diseases and nerve damage of the maxillofacial region;
7. Development of indications for conservative and surgical treatment of patients with diseases and nerve damage of the maxillofacial region;
8. Training in the preparation of a plan for the treatment of patients with diseases and nerve damage of the maxillofacial region;
9. Mastering the methods of conservative and surgical treatment for patients with diseases and nerve damage of the maxillofacial region;
10. Acquisition of methods of rehabilitation of patients with diseases and nerve damage of the maxillofacial region
11. Study of general and specific issues of the modern stage of development of dental implantology;
12. Mastering the algorithm of diagnosis, planning and forecasting of results of implant treatment;
13. Study of surgical methods of implant treatment;
14. Study approaches to prevention of complications of implant treatment;
15. Study of indications for carrying out reconstructive interventions in preparation for dental implantation;
16. Mastering the basics of diagnostics and treatment of periodontal diseases;
17. Acquaintance with complications in the treatment of periodontal diseases and methods of their elimination;
18. Formation of practical skills for independent search and application of knowledge on the treatment of periodontal diseases;
19. Formation of students' skills to draw up a comprehensive plan for the treatment of periodontal diseases, taking into account the surgical stage
20. Introduction to modern methods of surgical treatment of periodontal pathology;
21. Development of basic and additional techniques of surgical intervention on periodontal tissues;

22. Formation of students' skills of collective management of patients with the pathology of periodontium. Determination of the need to attract specialists of related professions and the extent of necessary intervention;

23. Formation of students' skills of collective management of patients with the pathology of periodontium. Determination of the need to attract specialists of related professions and the extent of necessary intervention;

24. Acquaintance students with modern osteoplastic materials used to increase the effectiveness of surgical treatment of periodontal diseases;

25. The main errors and complications arising from surgical treatment of periodontal diseases and methods of their prevention and elimination.

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- the principles of the organization of dental surgery and dental surgery departments;
- etiology, pathogenesis, clinical picture of various oral inflammatory processes: (periodontitis, periostitis, osteomyelitis, pericoronitis, abscesses in oral cavity), that need to be treated surgically on an outpatient basis;
- diagnostic methods used in the examination of patients with various inflammatory processes localized in the oral cavity;
- methods of treatment different inflammatory processes localized in the oral cavity;
- methods of examination of patients with nerves disease and neurotrauma of the maxillofacial area; indications for conservative and surgical treatment patients with nerves disease and neurotrauma of the maxillofacial area;
- methods of diagnostic and treatment periodontal disease;
- indications and contraindications for tooth extraction, instruments for extracting different groups of teeth in the maxilla and mandible, the development of possible local complications at different stages of tooth extraction surgery in the early and late postoperative period, prevention of complications and treatments;
- techniques of basic tooth-preserving surgery;
- indications for hospitalization of a patient in the inpatient maxillofacial department;
- examination methods for patients with inflammatory diseases of the teeth, jaws and differential diagnosis of these diseases;
- principles of clinical examination of patients with inflammatory diseases;
- etiology, pathogenesis and clinic of specific inflammatory diseases of the oral cavity and salivary gland diseases;
- etiology and pathogenesis of facial nerve diseases and role of odontogenic factors in the development of pain syndrome; associated diseases and factors contributing to the development of pain syndrome in maxillofacial area;
- diagnosis, differential diagnosis of diseases and injuries of the trigeminal and facial nerve systems; indications, contraindications for different methods of conservative and surgical treatment for diseases and injuries of the maxillofacial nerves; basic methods of treatment for patients with diseases of the maxillofacial nerves and possible complications; principles of postoperative rehabilitation of patients with maxillofacial nerve disease;
- methods of diagnosis, planning and forecasting the results of implant treatment; peculiarities of organizing the process of implant treatment of patients with dental defects; Algorithm for planning and conducting treatment and rehabilitation measures, using dental implants of various designs;

- modern methods of jawbone diagnosis; morphological aspects of osseointegration; modern osteoplastic material, used in dental implantology;
- indications and contraindications for treating patients with dental implants; surgical protocols for different implant techniques;
- indications, types and techniques of reconstructive surgery in implant treatment; stages of rehabilitation after implant treatment;
- principles and methods of comprehensive outpatient treatment, including conservative measures and periodontal surgery; principles of collegial management of patients with periodontal diseases with doctors of related specialties;
- professional ethics and aspects of deontology in treatment and preventive doctor's work, role of Informed Consent; methods and means of Health education.

Be able to:

- to diagnose acute and chronic odontogenic inflammatory diseases (Periodontitis, periostitis, osteomyelitis, pericoronitis, abscesses in oral cavity);
- to carry out medical examination of patients with inflammation disease localized in oral cavity, and completing the medical record of a dental patient;
- to prescribe and assess the results of additional examinations for inflammatory processes in the oral cavity;
- to perform outpatient oral surgery (tooth extraction; abscesses opened and drained; alveoloectomy; root apex resection, cystectomy, dental hemisection, amputation of the dental root; to stop alveolar hemorrhage by different methods depending on the source; eliminate the repair the perforation of the maxillary sinus with local tissue, with the use of a cheek and gingival flap or a palatal graft);
- to carry out an expert assessment of temporary disability;
- to treat purulent wounds;
- to diagnose specific infectious inflammatory diseases localized in the maxillofacial area (actinomycosis, tuberculosis, syphilis, HIV infection, erysipelas);
- to diagnose diseases of the salivary glands; perform sialography;
- to carry out a dystopical and allying tooth extraction with the use of drill;
- to diagnose diseases and injuries of the nerves of the maxillofacial area; to carry out prevention of the pain syndrome in face and jaw area; to provide first aid for the pain syndrome; to make treatment plan for patients with diseases and injuries of the maxillofacial area; to carry out rehabilitation for patients with nerve diseases and injuries of the maxillofacial area on an outpatient basis; to conduct examination for patients with nerve diseases and injuries of the maxillofacial area;
- to justify for conduction of implantological cure; formulate indications and contraindications to implantation; determine the sequence of schedule steps of treatment; to assess the type and volume of bone tissue of the upcoming implantation area; to explain to the patient the importance of reconstructive operations that aim at restoring alveolar bones and soft tissues in the area of implantation;
- to interpret the results of laboratory and instrumental examinations;
- to make a treatment and examination plan of a particular patient, taking into account the involvement of related dental specialists;
- to provide emergency treatment for acute periodontal processes; choose the optimal option and perform the necessary amount of periodontal surgery; correctly fill in the documentation with which the periodontist is dealing; to provide qualified care in emergency conditions patient's condition.

Possess:

- diagnostics odontogenic inflammatory diseases (periodontitis, periostitis, osteomyelitis, pericoronitis, taking into account ICD-10 on the basis of clinical and additional research;
- to perform a simple tooth extraction;

- the treatment of acute purulent pericoronitis (dissection of the dental operculum hanging over the crown of an uncut tooth);
- palpation submandibular, submandibular, parotid, facial, superficial cervical lymph nodes;
- opening and draining of subperiosteal abscess;
- performing an operation to eliminate the sharp edge of the hole in the area of one tooth;
- providing emergency care in case of fainting;
- injecting antiseptics into the salivary gland through the duct;
- removal of drains and tampons and removal of sutures and wound dressings;
- determination of indications and contraindications to treatment using dental implants;
- methods of general clinical examination of a patient and preparation of the medical record of a patient with periodontal pathology; to properly manage the medical records of a patient with periodontal pathology; methods of opening periodontal abscesses;
- interpretation of the results of laboratory, instrumental diagnostic methods;
- the algorithm of a detailed clinical diagnosis;
- means and methods of rehabilitation of postoperative patients.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline «Oral Surgery» refers to the core part «Disciplines» of Block 1 of GEP HE «Dentistry».

The discipline «Oral Surgery» is taught in 5, 6, 7, 10 semester of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

1. Normal human anatomy;
2. Pathological anatomy;
3. Physiology;
4. Pathophysiology;
5. Pharmacology;
6. Biochemistry;
7. Topographic anatomy and operative surgery;
8. Microbiology;
9. Histology;
10. Radiology;
11. Propaedeutic dentistry.

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

1. Maxillofacial surgery;
2. Pediatric dentistry.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition:

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies:

№	Competence code	The content of the competence (or its part)	Code and name of the competence achievement	As a result of mastering the discipline, students should:		
				know	be able to	possess

			indicator			
1.	UC 1	Ability to abstract thinking, analysis, synthesis	IUC 1.1 Know: Methods and techniques of philosophical analysis; searching and processing information IUC 1.2 be able to: analyses and evaluate the situation on their own; to use educational, scientific, popular literature, Internet on a given topic for the note-taking; IUC 1.3 possess: possess the skills of presenting an independent point of view, analysis and logical thinking	Methods and techniques of philosophical analysis; searching and processing information	analyses and evaluate the situation on their own; to use educational, scientific, popular literature, Internet on a given topic for the note-taking	possess the skills of presenting an independent point of view, analysis and logical thinking
2.	GPC 6	Willingness to conduct medical documentation		maintenance of standard accounting and reporting medical documentation in medical organizations of dental profile; indication for hospitalization	maintain medical documentation of various types in dental outpatient clinics; carry out measures for the prevention	rules of registration of the medical record of the dental patient (surgical profile)
3.	PC - 5	To collect complaints, anamnesis of the patient's life and illness, results of the pathological		requirements and rules to obtain of the informed consent by the patient to	to collect a complete medical history including of the oral cavity;	methods of clinical examinations to assess the state of health; dental health;

		and anatomical examination for the recognition of states or establishing the presence or absence of dental disease		the diagnostic procedures	examination of the patient; to perform a physical examination (inspection, palpation, auscultation, measure blood pressure, pulse, respiratory rate), refer the patient to laboratory and instrumental examination, for consultation; interpret the clues.	own the technique of thermometry, measure blood pressure, heart rate.
4.	PC - 6	The identification of a patient's of pathological conditions, symptoms, syndromes of dental diseases, nosological forms according to the ICD-10 and the related health problems		etiology, pathogenesis, diagnosis, treatment and prevention of the most common dentistry diseases of surgical profile	to diagnose dental diseases of surgical patients	
				principle of the ICD-10	to justify making a diagnosis according to the ICD-10	to make a diagnosis according to the ICD-10
5.	PC - 8	Determine the algorithm for managing patients with different dental diseases		methods of outpatient dental monitoring of different age groups, rehabilitation of patients	to develop a plan for treatment according to disease, to carry out rehabilitation of maxillofacial disease	
				etiology, pathogenesis, diagnosis, treatment and prevention of the most common	to diagnose dental diseases of surgical patients	

				dentistry diseases of surgical profile		
				the role of local anesthesia, premedication and sedation in dental interventions	formulate indications for local anesthesia in oral dental interventions, premedication and sedation in surgical dental patients	conduct infiltration and conduction anesthesia in the oral cavity. Prescribe medication therapy before, during and after dental treatment
6.	PC - 9	willingness to manage and treat patients with dental diseases in outpatient and day-care settings		clinical manifestations of the main syndromes requiring surgical treatment; types and methods of modern anesthesia	perform low-traumatic surgery on patients of all ages, including tooth and root extractions, small soft tissue surgeries; opening, treating and draining subperiosteal abscesses	manual skills in operative dentistry (simple tooth extraction, periostotomy); techniques of oral infiltration and conduction anesthesia for surgical treatment; carrying out simple tooth extraction and low-traumatic surgeries; stopping bleeding after tooth extraction
				etiology, pathogenesis, diagnosis, treatment and prevention of the most common diseases	perform low-traumatic surgery on patients of all ages	

4. Sections of the academic discipline and competencies that are formed when mastering them:

№ п/п	Competence code	Section name of the discipline	The content of the section in teaching units
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1.	UC 1 GPC 6 PC 5 PC 6	The department of surgical dentistry.	<p>Principles of organization of oral surgeon care in a dental clinic. Basic hygiene requirements for the premises, appearance and clothing of the dentist-surgeon. Asepsis and antisepsis in the dental surgery office. Regulations for sterilisation of dressing material, instruments. Preparation of surgeon's hands for the operation.</p> <p>The stages of the patients' examination in a dental surgery clinic. Maintenance of medical records, completing the medical history of the outpatient.</p>
2.	PC 8 PC 9	Tooth extraction surgery.	<p>Indications and contraindications. The stages of the tooth extraction. Anesthesia. Local and general complications of anesthesia. The specifics of anesthesia in persons with comorbidities. Methods for extracting teeth and roots on the lower jaw. Instruments.</p> <p>Methods for extracting teeth and roots on the upper jaw. Instruments. Complications during and after tooth extraction surgery. Preventing and eliminating the complications.</p>
3.	PC 6 PC 8 PC 9	Teething diseases.	<p>Dystopia and retention of teeth. Difficult teething. Causes. Clinic. Indications for surgical treatment. Pericoronaritis. Complications. Methods of surgical intervention in dystopia and retention of teeth.</p>
4.	PC 6 PC 8 PC 9	Odontogenic inflammatory diseases of the jaw (periodontitis, periostitis, odontogenic osteomyelitis).	<p>Periodontitis - etiology, pathogenesis, pathological anatomy, routes of infection. Acute purulent periodontitis and exacerbation of chronic periodontitis. Radicular cyst. Clinic, diagnosis, differential diagnosis and treatment. Chronic periodontitis. Classification, clinical and radiological diagnosis, differential diagnosis. Surgical treatment of chronic periodontitis: root apex resection, hemisection and amputation of the root, replantation of the teeth. Principles of retrograde root canal treatment of resected root.</p> <p>Cystectomy. Cystotomy.</p> <p>Periostitis of the jaw. Acute purulent periostitis of the jaws. Etiology, pathogenesis, pathological anatomy. Pathogenetic connection with periodontitis and distribution of inflammatory process depending on location of roots of different tooth groups. Clinic. Differential diagnostics, methods of surgical treatment. Chronic periostitis of the jaws.</p> <p>Odontogenic osteomyelitis of the jaw. Etiology. Theories of osteomyelitis development, role of microflora, immunological status and anatomical features of the jaws. Modern ideas about the pathogenesis of osteomyelitis of the jaws. Pathological anatomy and classification.</p> <p>Acute stage of osteomyelitis of the jaw. Clinic, diagnosis and differential diagnosis of the acute stage. Complex pathogenetic treatment: surgical (eradication of tooth - "source of infection"), opening of</p>

			<p>perimandibular abscesses and phlegmon, decompression osteoperforation; medication (antibacterial, anti-inflammatory, detoxifying, desensitizing therapy, immunotherapy), use of physical methods. Outcome and complications.</p> <p>Subacute and chronic stages of osteomyelitis of the jaw. Clinical and radiological picture of different forms (sequestering, rheumatic, hyperplastic, primary-chronic), differential diagnosis. Treatment.</p>
5.	PC 6 PC 8 PC 9	The odontogenic maxillary sinusitis. Perforation and fistula of the maxillary.	The odontogenic maxillary sinusitis. Etiology, pathogenesis. Acute odontogenic sinusitis: clinic, diagnosis and treatment. Chronic odontogenic sinusitis: clinic, diagnosis, differential diagnosis, methods of surgical and conservative treatment. Perforation and fistula of the maxillary sinus. Cause. Clinic, diagnosis, algorithm's dentist in perforation of maxillary sinus, methods of surgical perforation closure. Prevention of fistula (perforation) formation, odontogenic sinusitis.
6.	PC 6 PC 8 PC 9	Adenopathy of the face and neck.	Lymphadenitis. Classification, etiology, pathogenesis. Topographical anatomy of lymphatic apparatus of the face and neck. Acute and chronic lymphadenitis. Abscessed lymphadenitis. Adenophlegmon. Clinic, diagnosis, differential diagnosis, treatment.
7.	PC 6 PC 8 PC 9	Specific inflammatory process (actinomycosis, tuberculosis, syphilis, HIV-infection).	Specific inflammatory proces. Actinomycosis of the jaws, face and neck. Classification. Etiology, pathogenesis. Route of infection. Clinic, diagnostic, differential diagnosis and treatment. Tuberculosis of the jaws, face and neck. Clinic, diagnostic, differential diagnosis and treatment. AIDS. Manifestations in the maxillofacial area. Diagnostic, prevention of spread of AIDS. Syphilis. Maifestations in the oral cavity. Diagnostic and prevention.
8.	PC 6 PC 8 PC 9	Facial anthrex and furuncle. Erysipelatous inflammation.	Etiology. Pathogenesis. Pathological anatomy. Clinic, diagnostic. Differential diagnosis. Treatment.
9.	PC 6 PC 8 PC 9	Diseases of the salivary glands.	Structure and functions of the salivary glands. Research methods used in salivary gland pathology. Classification of diseases of the salivary glands. Etiology, pathogenesis of sialosis and inflammatory diseases of the salivary glands. The clinical features Methods of conservative and surgical treatment. Calculus sialadenitis: etiology, pathogesis, diagnostic, treatment algorithm.
			Complications of salivary gland diseases.
10.	PC 5 PC 6 PC 8 PC 9	Classification of periodontal diseases. The examination of a patient with periodontal diseases. Additional diagnostic	Classification of periodontal diseases. (ICD-10) Peculiarities of the examination of patients with periodontal pathology (depth mouth vestibule, characteristics of frenulum attachment of the lips and tongue, gingival assessment, depth periodontal pocket, gingival recession of periodontal tissues, definition of the bone and furcation defect, of the loss of periodontal

		methods. Emergency conditions in periodontal diseases.	attachment). Additional diagnostic methods: a) intraoral radiography, panoramic radiography, computed tomography, etc. instrumental examination methods Treatment of exacerbations of chronic generalised periodontitis (periodontal abscess, purulent periodontal cysts)
11.	PC 6 PC 8 PC 9	The main method of surgery periodontal treatment. The auxiliary periodontal operations. Tooth preservation .	General principles of surgical treatment of periodontal pathology. Basic and additional methods of periodontal surgery. Indications and contraindications for surgery. Effectiveness of a surgical intervention. Indications for vestibuloplasty, frenullectomy, mucogingival plastic surgery. Technique of surgery, complications. Principles of treatment of furcation defects. Periodontal indications for tooth extraction.
12.	PC 9	Directed periodontal tissue regeneration, osteoplastic materials in periodontology	Выбор тактики хирургического лечения. The use of surgical instruments, suture material. Проведение гемостаза. Rules for registration of medical history.
13.	UC 1 PC 5	History, current status and prospects of dental implantology.	History of dental implantology. Regulatory framework. Prospect of implantology as a science. The possibilities of modern implantology. Reasons of the bone atrophy after teeth extraction, their consequences. An argument for an implant or bridge. The state of modern domestic implantology. Rehabilitation possibilities for patients with dental implants.
14.	PC 5 PC 8	Indications and contraindications (limitations) of dental rehabilitation with dental implants. Implant diagnosis and planning instrumentation, medical perioperative support.	Anatomical indications for dental implants. Factors influencing the optimisation of osseointegration. Morphological features of bone healing. Morphological features of the bone-implant contact zone. Types of defects and deformities of the jaws. Indications and contraindications for dental implantation. Diagnosis and treatment planning for patients with dental implants. Basic and additional examinations necessary for treatment planning with dental implants. Types and methods of surgical templates. Surgical instruments used for placement of dental implants and for jawbone reconstructive interventions. Medical management of implantation and associated reconstructive interventions.
15.	PC 8 PC 9	Methods of dental implantation Prevention and treatment of dental implantation	Characteristics of different implant systems. One-stage and two-stage approaches in dental implantation. Implantation in complex clinical cases. Modern concepts of bone substitutes used in dental implantation. Types of reconstructive surgical interventions on the jawbones and their techniques. Sinus lifting and subantral implant options. Veneer grafting and intercortical osteotomy. Basic techniques of guided tissue regeneration. Use of membrane techniques and titanium frameworks. Possible complications at the stage of placement of

		complications.	dental implants and ways to eliminate them. Prevention and treatment of complications during the early postoperative period and in the long-term period of dental implantation. Rationale for professional oral hygiene during implantation and reconstructive interventions on the jawbones.
16.	PC 5 PC 6 PC 8	Diseases and injuries of the maxillofacial nerves	Facial nerve disturbance. Paresis and paralysis of the facial muscles. The indications for surgical treatment (decompression, neurolysis, suturing, fascial, factional, muscular skin plastic surgery). Trigeminal neuralgia, clinical, differential diagnosis. Neuralgia of the glossopharyngeal nerve. Features of treatment of neurological disorders of the maxillofacial region. Indications for surgical treatment. Diagnostic and therapeutic blockages. Chemical neurotomy by alcohol injection, surgical treatments, prognosis. Indications for the use of physio- and reflexology therapy.

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

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units (CU)	volume in academic hours (AH)	Semesters			
			V	VI	VII	X
Classroom work, including	6	216	54	48	16	98
Lectures (L)	1,44	52	8	8	4	26
Laboratory practicum (LP)						
Practicals (P)						
Clinical practice sessions (CPP)	4,56	164	40	40	14 12	72
Seminars (S)						
Student's individual work (SIW)	4	144	36	33	11	64
Research work of the student.						
Interim attestation						
Exam	1	36			Exam	
TOTAL LABOR INTENSITY	11	396	90	81	27	162

6 Content of the academic discipline

6.1. Sections of the discipline and types of academic work:

№	Semester	Name of the section of the academic discipline	Types of academic work* (in AH)			
			L	CPP	SIW	total

1	5	Organization of the oral surgery department. Tooth extraction. Local anesthesia. Emergency Conditions in dentistry.	4	15	11	30
	5	Odontogenic inflammatory diseases of the jaw (periodontitis, periostitis).	8	20	22,5	50,5
	5	Teeth eruption diseases.	2	5	2,5	9,5
2	6	Odontogenic osteomyelitis of the jaw.	4	15	11,5	30,5
	6	The odontogenic maxillary sinusitis. Perforation and fistula of the maxillary.	2	10	8	20
	6	Adenopathy of the face and neck. HIV infection.		5	5,5	10.5
	6	Specific inflammatory processes of the face and neck. (Actinomyces, tuberculosis, syphilis). Carbuncle and furuncle. Erysipelas.	2	10	8	20
3	7	Diseases of the salivary glands.	4	12	11	25
4	10	Classification of periodontal diseases. The examination of a patient with periodontal diseases. Additional diagnostic methods. Emergency conditions in periodontal diseases.	4	15	9,5	28,5
	10	The main method of surgery periodontal treatment. The auxiliary periodontal operations. Tooth preserving procedures.	6	15	13,5	34,5
	10	Basic techniques of guided tissue regeneration, osteoplastic material, used in periodontal.	4	5	4,5	13,5
	10	History of dental implantation. Reasons of the bone atrophy after teeth extraction, their consequences.	2	5	3,5	10,5
	10	Indications and contraindications of rehabilitation for dental implantation. Implant diagnosis and planning, instrumentation, perioperative medication.	2	5	6,5	13,5
	10	Methods of dental implantation. Prevention and treatment of dental implantation Complications.	6	15	10,5	31,5
	10	Diseases and injuries of the maxillofacial nerves	2	12	13	27

* - L – lectures; CPP – practice sessions; SIW – self-independent work of a student.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures:

Name of lecture topics		Semester 5	Semester 6	Semester 7	Semester 10
1	Local anesthesia. Indications, contraindications. Technique.	2			
2	Odontogenic inflammatory diseases of the jaw Classification, etiology, pathogenesis, pathological	2			

	anatomy. Acute and chronic periodontitis. Etiology, pathogenesis, clinic, diagnosis, treatment.				
3	Acute periostitis of the jaw. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment.	2			
4	Tooth preserving procedures in dental surgery.	2			
TOTAL (total - AH) IN TOTAL, 8 HOURS IN THE 5TH SEMESTER					
5	Odontogenic osteomyelitis of the jaws. (acute, subacute and chronic stages). Etiology, pathogenesis, clinic, diagnosis, treatment..		4		
6	The odontogenic maxillary sinusitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment. Methods of conservative and surgical treatment.		2		
7	Specific inflammatory processes of the head, face and neck. (actinomycosis, tuberculosis, syphilis). Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment		2		
TOTAL (total - AH) IN TOTAL, 8 HOURS IN THE 6TH SEMESTER					
8	Anatomical features of salivary glands, functions of salivary glands. Methods of examination: indications and contraindications. Diseases of the salivary glands: classification. Sialosis. Acute sialoadenitis.			2	
9	Chronic sialoadenitis. Etiology, clinic, diagnosis, methods of conservative and surgical treatment. Calculus sialadenitis. Etiology, clinic, diagnosis, treatment..			2	
TOTAL (total - AH) IN TOTAL, 4 HOURS IN THE 7TH SEMESTER					
1	Emergency conditions in periodontal diseases. Planning the complex treatment of periodontal disease. Choice of surgical technique. Accessory operations (vestibuloplasty, frenulectomy).				4
1	Basic principles of surgical treatment of periodontal disease. Techniques for basic periodontitis surgery in moderate to severe. Mistakes and complications.				4
1	Modern osteoplastic preparations. Indications and contraindications for use in various clinical situations.				2
1	Gingival recession, classification, predisposition. Examination of patients with recession. Surgical treatment planning.				2
1	Surgical preparation of the oral cavity for prosthetics: interventions on the jaws (removal of exostoses, correction of the alveolar process), soft				2

	tissue surgery (removal of lobular fibromas, symmetrical fibromas, papillomatoses, cheek bands).				
1	History, current status and prospects of dental implantology. Rehabilitation possibilities for patients with dental implants. The phenomenon of osseointegration. Preconditions and factors influencing the interaction of the implant with the bone tissue.				2
1	Indications and contraindications for dental rehabilitation with dental implants. Implant diagnosis and planning, instrumentation, perioperative medication.				2
1	Surgical techniques for dental implants. Prevention and treatment of dental implant complications.				2
1	Types of reconstructive interventions on the jawbones and their techniques. Application of biocomposite materials in dental implantology and reconstructive oral surgery.				4
1	Neuritis (neuropathy) and trigeminal neuralgia. Classification, diagnosis and treatment.				2
TOTAL (total - AH) IN TOTAL, 26 HOURS IN THE 10TH SEMESTER					

Lecture topics for independent study by students using DLT

Name of lecture topics	Semester 5	Semester 6	Semester 7	Semester 10
The department of surgical dentistry. History of the development of oral and maxillofacial surgery.	2			
Emergency conditions in dentistry.	2			
Tooth extraction. Indications, contraindications. complications	2			
Teething problems. Difficult teething of the third lower molar. Causes, diagnosis, complications and treatment. Basic techniques for extracting retained and semi-retained teeth.	2			
Specific inflammatory processes of the face and neck. Anthrax and furuncle. Erysipelas.		2		
Adenopathy of the face and neck. Etiology, pathogenesis, clinic, diagnosis, treatment. Manifestation of HIV- infection in the head, neck and jaws area.		2		
Perforative maxillary sinusitis.		2		
Gingival recession. The main methods of surgical treatment. Complications and prognosis.				2

Damage to the facial nerve. Clinic, differential diagnosis. Methods of treatment, indications and contraindications.				2
Pathology of the glossopharyngeal nerve.				2

6.2.2 The thematic plan of laboratory practicums: is not provided for by FSES.

6.2.3 Thematic plan of practicals:

Name of the topics of practicals		Volume in AH			
		Semester 5	Semester 6	Semester 7	Semester 10
1.	The department of surgical dentistry. Tooth extraction. Indications, contraindications. complications. Stages of tooth extraction.	5			
2.	Techniques for extracting teeth and roots on the lower jaw. Instruments. Techniques for extracting teeth and roots on the upper jaw. Instruments. The specifics of extraction in persons with comorbidities.	5			
3.	Complications during and after tooth extraction surgery. Preventing and eliminating the complications. Early and late complications Alveolitis. Prevention and methods of elimination.	5			
4.	Periodontitis. Classification. Acute periodontitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment.	5			
5.	Chronic periodontitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment. Radicular cyst.	5			
6.	Surgical treatment of chronic periodontitis (tooth preserving). Cystectomy. Cystotomy.	5			
7.	Acute odontogenic periostitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment.	5			
8.	Teething problems. Difficult eruption of the third lower molar. Clinic, diagnosis, differential diagnosis, treatment. Pericoronitis. Final interview	5			
IN TOTAL, 40 HOURS IN THE 5TH SEMESTER					
9.	Odontogenic osteomyelitis: etiology, pathogenesis, pathological anatomy. Acute stage of odontogenic osteomyelitis: clinic, diagnosis, treatment.		5		

10.	Subacute and chronic stages of odontogenic osteomyelitis of the jaw. Clinic, diagnosis, treatment.		5		
11.	Differential diagnosis of acute periodontitis, periostitis and odontogenic osteomyelitis of the jaw.		5		
12.	Topographic anatomy of the lymphatic system of the maxillofacial region. Lymphadenitis of the face and neck. Classification, etiology, pathogenesis. Clinic of acute lymphadenitis. Diagnosis, differential diagnosis. Treatment. Manifestation of HIV infection in the maxillofacial area.		5		
13.	Odontogenic maxillary sinusitis. Etiology, pathogenesis. Classification. Clinic, diagnosis, differential diagnosis. Methods of surgical treatment.		5		
14	Perforation and fistula of the maxillary sinus. Causes. Clinic, diagnosis. Methods of surgical closure of perforation of the floor of the maxillary sinus.		5		
15	Specific inflammatory processes of the face, neck and jaw. Actinomycosis. Etiology, pathogenesis. Classification. Clinic, diagnosis, differential diagnosis. Treatment of actinomycosis of face, neck and jaw area. Erysipelas.		5		
16	Tuberculosis, syphilis of the face, neck and jaw. Features of the clinical picture. Diagnostics. Treatment. Anthrex and furuncle of the face. Final interview		5		
IN TOTAL, 40 HOURS IN THE 6TH SEMESTER					
17	Anatomical features of salivary glands, functions of salivary glands. Methods of examination. Diseases of the salivary glands: classification. Reactive dystrophic diseases of salivary glands, acute sialoadenitis (etiology, pathogenesis, clinic, principles of surgical and conservative treatment).			6	
18	Chronic sialoadenitis (etiology, pathogenesis, principles of diagnosis and treatment). Calculous sialoadenitis. Final interview.			6	
IN TOTAL, 12 HOURS IN THE 7TH SEMESTER					
19	General principles of surgical treatment of periodontal pathology. Basic and additional methods of periodontal surgery. Indications and				10

	contraindications for surgery Effectiveness of a surgical intervention. A method of guided periodontal tissues regeneration.				
20	Basic and additional methods of periodontal surgery. Indications for vestibuloplasty, frenullectomy, mucogingival plastic surgery. Technique of surgery, complications.				10
21	Principles of treatment of furcation defects. Periodontal indications for tooth extraction. Use of surgical instruments, suture material. Проведение гемостаза. Правила оформления истории болезни.				5
22	Surgical preparation of the oral cavity for prosthetics. Techniques for interventions on the jaws and soft tissues.				5
23	History of dental implantology. Reasons of the bone atrophy after teeth extraction, their consequences. Types of defects and deformities of the jaws. Indications and contraindications for dental implantation. Diagnosis and treatment planning for patients with dental implants. Implant treatment planning scheme. Basic and additional examinations necessary for treatment planning with dental implants. Types and methods of surgical templates.				10
24	Types of reconstructive interventions on the jawbones: sinus lifting and subantral implant options. Veneer grafting and intercortical osteotomy. Basic techniques of guided tissue regeneration. Use of membrane techniques and titanium frameworks.				10
25	Modern views on osteoplastic materials used in dental implants, oral reconstructive interventions, and tooth-preserving surgeries.				5
26	Characteristics of different implant systems. One-stage and two-stage approaches in dental implantation. Implantation in complex clinical cases. Prevention and treatment of dental implant complications.				5
27	Neuritis (neuropathy) and trigeminal neuralgia. Classification, diagnosis and treatment (diagnostic and therapeutic blocks, surgical treatment, physio- and reflexology).				

28	Damage to the facial nerve. Clinic, differential diagnosis. Methods of treatment, indications and contraindications. Pathology of the glossopharyngeal nerve.	10	6		
IN TOTAL, 72 HOURS IN THE 10TH SEMESTER					
TOTAL (the whole period) – 164 AH					

6.2.4 The thematic plan of seminars: is not provided for by FSES.

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

Types and topics of the SIW	Volume in AH			
	V	VI	VII	X
Preparation for clinical practical classes, homework, preparation for the current control	12	12	4	20
Working with lecture material	6	5	2	8
Working with electronic resources on the distance education portal PRMU	6	6	2	10
Study of the material submitted for independent study (separate topics, paragraphs), work with literary sources	5	3	2	10
Preparation for testing, online testing	4	4	1	4
Preparation for the test on practical skills (examination methods)	-	-	-	6
Registration of medical records	3	3	-	6
TOTAL (the whole period) - AH	36	33	11	64

6.2.6 Student's research work:

№ п/п	The name of the topics of the student's research work	Semester
1	Tooth conservative operations - pros and cons, modern capabilities and technical support. The use of osteoplastic materials in the treatment of periapical destructive inflammatory foci and reconstructive interventions on the jaws. Comparative characteristics of materials used for retrograde sealing. Clinical evaluation of their effectiveness.	5,10
	Tactics of management of the patient after the operation "Removal of semi-trained, dystopian teeth on the lower and upper jaws"	5,10
2	New methods of X-ray diagnostics. X-ray diagnostics of odontogenic inflammatory diseases of the maxillofacial region, diseases of the salivary glands, periodontal diseases. X-ray diagnostics in reconstructive surgery of the oral cavity.	5, 6, 7, 10
3	Acute perforation of the maxillary sinus is a variety of modern methods of plastic closure and the course of the repair process.	6, 10
4	Modern antiseptics and the problem of microflora resistance. Antibiotics and their role in the treatment of inflammatory diseases of the maxillofacial region. Features of antibiotic therapy for inflammation caused by resistant strains of microorganisms.	5, 6, 7
	Prediction of the results of local plastic surgery with the use of free gingival grafts	10

5	Demonstration of clinical cases of rare oral pathology	10
6	Preparation of abstracts on rare forms of oral pathology	6, 10

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№ п/п	Semester No	Types of control	Name of section of academic discipline	Evaluation tools		
				types	number of test questions	number of test task options
1.	5, 6, 7, 10	Control of SIW of students	all sections of the discipline	1. Preparation of case studies 2. Writing and defending abstracts 3. Creating presentations 4. Translation of a journal article from foreign sources	1-2 2 2 1	
2.	5, 6, 7, 10	Control of the mastering the topic	all sections of the discipline	Test Testing of practical skills Oral questionnaire Control work (solving situational problems of different levels of complexity) Writing recipes Reading radiographs Credit for the methods of examination of a dental patient	30 2 2 1 1 1 3	Computer testing (the variant is formed by random sampling 6 6-10 (for each topic) 6-10 (for each topic) 8-10 4-8 4-8 15
	7	Exam	Surgical dentistry (materials of 5, 6, 7 semesters)	Questionnaire	Ticket (3 questions); Case study; Radiogram.	50 50 50

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

8.1. Key literature references:

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Abscesses and phlegmons of the maxillofacial region: study guide / E. A. Durnovo, A. I. Korsakova, I. V. Vyseltseva [и др.]. – N.	http://nbk.pimunn.net/MegaPro/UserEntry?Action=Link_FindDoc&id=224823&idb=0	

	Novgorod: Publishing House of Privolzhskiy Research Medical University, 2021.		
2	Oral and maxillofacial surgery: An Objective-Based Textbook / J. W. Frame, J. Pedlar ; Pedlar J. ; Frame, J. W. – Edinburgh: Churchill Livingstone, 2001.	-	3
3	Oral and maxillofacial surgery, radiology, pathology and oral medicine. 1 / P. Coulthard, K. Horner, P. Sloan, E. D. Theaker; Coulthard Paul ; Horner Keith ; Sloan Philip; Theaker Elizabeth D. – Edinburgh: Churchill Livingstone, 2003.		1
4	Textbook of oral and maxillofacial surgery+2 interactive DVD-ROMs / edited by N. A. Malik. – 3rd ed. – New Delhi : Jaypee Brothers Medical Publishers (P) LTD., 2012		3
5	Pollock, R. A. Craniomaxillofacial buttresses: anatomy and operative repair / R. A. Pollock. – New York ; Stuttgart : Thieme, 2012		3

8.2. Further reading

No	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Moore, U. J. Principles of oral and maxillofacial surgery / U. J Moore. – 6 ed. – Chichester: Wiley-Blackwell, 2011. – 357 p. – ISBN 978-1-4051-9998-8.		
2.	Sivapathasundharam, B. Shafer's textbook of oral pathology / B. Sivapathasundharam. – 8 ed. – New Delhi: Elsevier, 2016. – 794 p. – ISBN 978-81-312-4447-0.		
3.	Baker, E. W. Anatomy for dental medicine / E. W. Baker. – 2 ed. – New York: Thieme, 2015. – 578 p. – ISBN 978-1-62623-085-9.		
4.	Norton, N. S. Netter's head and neck anatomy for dentistry / N. S. Norton. – 2 ed. – Philadelphia: Elsevier, 2012. – 672 p. – ISBN 978-1-4377-2663-3.		

8.3. Electronic educational resources for teaching academic subjects:

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

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Internal Electronic Library System of the University (IELSU)	The works of the academy's teaching staff: textbooks and teaching aids, monographs, collections of scientific papers, scientific articles, dissertations, abstracts, patents.	from any computer with the Internet. access with an individual username and password [electronic resource] – Access mode: http://95.79.46.206/login.php	unlimited

8.3.2. Electronic educational resources acquired by the University

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Electronic database "Student's Consultant"	Educational literature + additional materials (audio, video, interactive materials, tests) for higher medical and pharmaceutical education. The publications are structured by specialties and disciplines in accordance with the current FSES HE	from any computer on the internet with an individual username and password [electronic resource] – Access mode: http://www.studmedlib.ru/	PIMU general subscription
Electronic Library System «Bookup»	Educational and scientific medical literature from Russian publishers, including translations of foreign editions.	Connection to any computer on the Internet with a username and password, from the academy's computers. The publications for which a subscription is issued are available for reading. [electronic resource] – Access mode: http://www.books-up.ru/	PIMU general subscription
«Bibliopoisk»	Integrated search service «Single Window» for electronic catalogues, EER and full-text databases. Single search results in the demo include documents from domestic and foreign digital libraries and databases available to the university as part of the subscription, as well as from open access databases.	A demo version of the Bibliopoisk search engine has been made available to PIMU: http://bibliosearch.ru/pimu .	PIMU general subscription
National electronic periodicals	Medical and higher education periodicals	from the academy's computers on the eLIBRARY.RU digital library platform -journals Mediasfera - from library computers or provided by the library on user request [electronic resource] – Access mode : https://elibrary.ru/	
International scientometric database «Web of Science Core Collection»	Web of Science covers material in the natural sciences, engineering, social sciences, humanities; takes into account cross-citation of publications developed and provided by Thomson Reuters; has built-in search, analysis and management of bibliographic	Free access from PIMU computers. [electronic resource] – Access mode: http://apps.webofknowledge.com	Free access from PIMU computers

	information.		
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8.3.3 Open access resources

Name of the electronic resource	Brief description (content)	Access conditions
Federal electronic medical library (FEML)	FEML contains electronic analogues of printed publications and independent original electronic publications which have no analogues. [electronic resource] – Access mode: http://feml.ru/	from any computer with the Internet
Scientific electronic library eLIBRARY.RU	eLIBRARY.RU is the biggest Russian informational portal in the area of STM. [electronic resource] – Access mode: https://elibrary.ru/	from any computer with the Internet
Open access scientific electronic library CyberLeninka	Full texts of scientific articles with annotations published in scientific journals of Russia and neighboring countries. [electronic resource] – Access mode: https://cyberleninka.ru/	from any computer with the Internet
Russian State Library (RSL)	Author's abstracts for which there are author's contracts with permission for open publication [electronic resource] – Access mode: http://www.rsl.ru/	from any computer with the Internet
Legal reference system "Konsultant Plus".	Federal and regional legislation, jurisprudence, financial advice, legislative commentary, etc. [electronic resource] – Access mode: http://www.consultant.ru/	from any computer with the Internet
The official website of the Ministry of Health of Russia Federation	National clinical recommendations [electronic resource] – Access mode: cr.rosminzdrav.ru - Клинические рекомендации	from any computer with the Internet
Website of the Russian Respiratory Society	clinical guidelines for the diagnosis and treatment of diseases [electronic resource] – Access mode: www.spulmo.ru – Russian Respiratory Society	from any computer with the Internet
Russian Scientific Society of Physicians	clinical guidelines for the diagnosis and treatment of internal organs diseases [electronic resource] – Access mode: www.rnmot.ru – Russian Scientific Society of Physicians	from any computer with the Internet

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

9.1. List of premises for classroom activities for the discipline

1. Lecture halls (2 classrooms in the Institute of Dentistry, 20A Minin Street, 2 classrooms in the Semashko hospital).
2. Study rooms for practical classes (3 classrooms the Institute of Dentistry, 20A Minin Street, 2 classrooms in the Semashko hospital, a classroom in the PCHC, 20A Marshal Voronov Street).
3. Dental offices for the reception of surgical patients (in the dental polyclinic of the Privolzhsky Research Medical University, in the dental polyclinic of the Priokskiy district, in the dental polyclinics of PCHC No.3 and No.4). They are used for clinical examination of patients by students.
5. Operating theatre (in the dental clinic of the Privolzhsky Research Medical University)

3. Multidisciplinary Accreditation and Simulation Centre (the Institute of Dentistry, 20A Minin Street)

9.2. List of equipment for classroom activities for the discipline

1. Multimedia complex (projecting camera, screen, notebook computer)
2. TV
3. Built-in video camera in the operating theatre of the PRMU dental clinic with image transfer to a notebook computer
4. Computers
5. Monitors
6. Sets of thematic slides
7. Tables and schemes of phlegmon
8. Multimedia materials (for lectures, for practical exercises)
9. Videos
10. Floorboards
11. Dental examination trays with a set of instruments for oral examination
12. Instruments for anaesthesia and tooth extraction on the upper and lower jaws
13. Dental simulators
14. Sets of radiographs.

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

16.

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

	Browser					
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10 030 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program

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

Department of
Oral and Maxillofacial surgery

CHANGE REGISTRATION SHEET

working program for the academic discipline
ORAL SURGERY

Field of study / specialty / scientific specialty: 31.05.03 STOMATOLOGY
(code, name)

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

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

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

Approved at the department meeting

Protocol No. ____ of _____ 20__

Head of the Department

of Oral and Maxillofacial Surgery, MD, PhD, Professor _____ (Durnovo E.A.)
(signature)