



APPROVED
Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **MAXILLOFACIAL 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**

Nizhny Novgorod
2021

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:

Durnovo Evgeniia Aleksandrovna, M.D., Ph.D., Professor, Head of the Department of Oral and Maxillofacial Surgery, Director of the Institute of Dentistry of FSBEI HE «PRMU» MOH Russia

KHomutinnikova Nina Evgenevna, M.D., Ph.D., Associate Professor of the Department of Oral and Maxillofacial Surgery, FSBEI HE «PRMU» MOH Russia

Korsakova Alena Igorevna, M.D., Teaching Assistant of the Department of Oral and Maxillofacial Surgery, FSBEI HE «PRMU» MOH Russia

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 "Maxillofacial surgery" (hereinafter – the discipline)

1.1. The purpose of mastering the discipline:: participation in the formation of the competencies of OK 1, OPK 6, PC 5, PC 6, PC 8, PC 9.

1.2 Tasks of the discipline:

- master the diagnosis of non-gunshot and gunshot injuries of the face;
- to study the clinical picture of soft tissue injuries, teeth and bones of the face;
- to master methods of treatment of victims with dislocations and fractures of teeth;
- to master methods of treatment for fractures and dislocations of the lower jaw;
- to master the methods of treatment of fractures of the alveolar process;
- learn to distinguish between the features of gunshot and non-gunshot wounds of the face;
- to master the methods of rehabilitation of injured and injured with facial trauma;
- to study the stages of the wound process;
- to study the stages of primary surgical treatment of facial wounds;
- to study the clinic and diagnosis of thermal injuries of the face;
- to study the principles of organization, scope and content of assistance to patients with facial injuries in peacetime and at the stages of medical evacuation during the conduct of hostilities;
- know the service medical equipment necessary to provide assistance to the wounded in the face and be able to carry out medical sorting;
- to study the features of the course of combined and combined facial injuries;
- to master the methods of diagnosis of complications of soft tissue and bone injuries of the face;
- to master diagnostic methods used in the examination of patients with various inflammatory and dystrophic processes of the face and neck and their complications;
- develop indications for surgical treatment of patients with various inflammatory processes localized in the face and neck, and their complications;
- to form students' theoretical and practical skills in surgical treatment of patients with various inflammatory processes in polyclinic and hospital settings.

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- etiology, pathogenesis and clinical picture of odontogenic inflammatory processes of the face and neck;
- methods of examination of patients with purulent-inflammatory diseases of the face and neck, differential diagnosis of these diseases;
- indications for hospitalization of patients with inflammatory processes of the face and neck in the maxillofacial hospital;
- substantiation of treatment tactics for patients with purulent-inflammatory diseases of the face, neck,
- determining the prognosis of the disease;
- principles of treatment of purulent wounds;
- principles of prevention and medical examination of patients with purulent-inflammatory diseases of the face and neck;
- principles of organizing assistance to the injured and wounded in the face in peacetime and wartime, as well as in local wars;
- the clinical picture, distinctive clinical signs and differential diagnosis of non-gunshot and gunshot injuries of the face;
- methods of examination of victims with non-gunshot and gunshot injuries of the face;

- the method of reading radiographs of patients with fractures of the bones of the facial skeleton;
- clinical characteristics of fractures of the nose, zygomatic bone and arch;
- features of the wound process depending on the time of injury;
- clinical characteristics of thermal injuries of the face;
- the clinical picture of radiation sickness;
- differences between combined and combined injuries;
- stages and features of primary and secondary surgical treatment of facial wounds;
- conservative and operative methods of immobilization of jaw fragments, indications for their use;
- the amount of assistance provided to the wounded in the face at the stages of medical evacuation;
- types of complications in case of damage to the maxillofacial region, their prevention and treatment;
- indications for hospitalization of patients with facial injuries;
- indications for referral of victims with facial trauma to related specialists (neurologist, neurosurgeon, ophthalmologist, ear-nose and throat doctor, etc.);
- methods of conducting a medical and labor examination of the wounded with facial injuries;
- organizing medical triage and providing assistance to the wounded in the face at the stages of medical evacuation;
- classification of TMJ diseases;
- methods of diagnosis of TMJ diseases;
- the clinical picture of inflammatory and dystrophic TMJ diseases;
- the clinical picture of TMJ ankylosis;
- clinical picture of mandibular contractures;
- indications and contraindications to conservative and surgical methods of treatment for TMJ diseases;
- methods of treatment of TMJ inflammatory diseases;
- methods of treatment of TMJ dystrophic diseases;
- methods of treatment of ankylosis;
- methods of treatment of contractures;
- orthopedic methods of treatment of TMJ diseases;
- methods of prevention of TMJ diseases;
- principles of medical examination of patients with TMJ diseases;
- etiology and pathogenesis, current classification, features and possible complications of defects and deformities of the maxillofacial region;
- methods of examination of patients with defects and deformities of the maxillofacial region;
- methods of diagnostics of defects and deformities of the maxillofacial region;
- the clinical picture of congenital and acquired defects and deformities of the maxillofacial region;
- sources of tissue borrowing for reconstructive treatment of the maxillofacial region;
- basic methods of rehabilitation treatment of the maxillofacial area;
- basic methods of eliminating age-related changes in the skin of the face;
- basic methods of eliminating congenital deformities of the facial organs;
- the entire cycle of rehabilitation treatment of the maxillofacial area;
- principles of planning reconstructive operations in the maxillofacial region;
- principles of postoperative management of the patient, methods of treatment and prevention of complications, determination of the prognosis of the disease;
- organization of oncological services, oncological doctrine;
- etiology and pathogenesis, current classification, clinical picture, features of the course of the disease and possible complications in benign and malignant neoplasms of the maxillofacial region;

- substantiation of the algorithm for a comprehensive examination of a patient with a maxillofacial neoplasm, methods of treatment and prevention, and determination of the prognosis of the disease;
- principles, methods and methods of diagnosis, differential diagnosis, prevention and treatment of benign and malignant neoplasms of the maxillofacial region;
- basic methods of surgical and complex treatment of oncological diseases of the maxillofacial region;
- indications for the use of radiation therapy, depending on the form and stage of the disease;
- principles of medical examination of patients with benign and malignant neoplasms of the maxillofacial region, determining the prognosis of the disease.

Be able to:

- perform topical diagnostics of acute and chronic inflammatory diseases of the face and neck of various localization;
- evaluate the results of clinical blood and urine tests;
- evaluate the data of radiation examination methods;
- identify indications for emergency hospitalization;
- perform various methods of local anesthesia and perform an incision from the skin in the treatment of an abscess;
- perform autopsy and drainage of abscesses by intraoral access: subcostal and in the area of the maxillofacial groove;
- treat a purulent wound.
- provide emergency care to victims with facial injuries on an outpatient basis;
- take measures in case of shock, asphyxia or bleeding;
- to treat patients with various variants of tooth dislocation;
- to treat patients with various types of tooth fractures;
- to treat patients with alveolar process fracture;
- to treat patients with various variants of dislocation of the lower jaw;
- provide specialized care for jaw fractures without displacement of fragments by manufacturing and applying inter-maxillary ligature bonding, smooth splints-staples, splints-mouthguards made of plastic in a polyclinic;
- remove the tooth from the fracture gap;
- perform primary surgical treatment of facial wounds on an outpatient basis;
- determine the time frame for the end of immobilization of fragments and carry out rehabilitation measures;
- remove previously applied wire splints after consolidation of jaw fragments;
- take measures to prevent the development of trauma complications;
- conduct conservative treatment of patients with complications of jaw fractures and, if necessary, provide a simple surgical manual in a polyclinic;
- diagnose TMJ diseases and contractures;
- make a plan for examination and treatment of patients with TMJ diseases and contractures;
- provide urgent measures for inflammatory diseases of the TMJ;
- implement measures aimed at preventing the development of relapses;
- carry out rehabilitation of patients with TMJ diseases and contractures in outpatient settings.
- diagnose defects and deformities of the maxillofacial region;
- make a plan for the entire cycle of rehabilitation treatment of patients with defects and deformities of the maxillofacial tissues;
- make a diagnosis for age-related changes in the skin of the face and neck;
- evaluate the results of reconstructive operations in the maxillofacial region;
- perform postoperative rehabilitation of patients with defects and deformities of maxillofacial tissues in outpatient settings;
- to form risk groups for precancerous and background dental diseases in order to prevent the occurrence of oncological diseases;
- organize primary cancer prevention in different age groups;

- collect and arrange a complete medical history of the patient for cancer;
- conduct a clinical examination method, prescribe additional studies and evaluate their results;
- establish and form a diagnosis based on ICD-10 based on clinical and additional research methods and refer patients to the appropriate specialists;
- make a treatment plan for the cancer patient;
- perform postoperative rehabilitation of patients with benign and malignant neoplasms of maxillofacial tissues in outpatient settings.

Possess:

- skills of removing drains and tampons from the wound, removing sutures, and dressing the wound;
- skills in providing emergency assistance to victims in the event of a mutual burden syndrome with combined and combined injuries- to draw up an action plan for the implementation of a phased drug optimization of reparative osteogenesis;
- perform suturing of linear wounds;
- determine the indications for hospitalization of the patient in a specialized hospital;
- prepare the patient for admission to a specialized hospital;
- principles of oncological onco-alertness.

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 «Maxillofacial Surgery» refers to the core part «Disciplines» of Block 1 of GEP HE «Dentistry».

The discipline «Maxillofacial Surgery» is taught in 7, 8, 9 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;
12. Oral surgery;
13. Therapeutic dentistry

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

1. Pediatric dentistry (section maxillofacial surgery).

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

n /	Comp etence	The content of the competence (or its	Code and name of the	As a result of mastering the discipline, the students should:
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	code	part)	competence acquisition metric	Know	Be Able to	Possess
	UC-1	the Ability to abstract thinking, analysis, synthesis		methods and techniques of philosophical analysis; the search and processing of information	competently and independently-but to analyze and assess the situation; use educational, scientific, popular scientific literature, and the Internet on a given topic with the preparation of the notes	to possess the skills of presentation of an independent perspective, analysis and logical thinking
	GPC-6	Willingness to medical records		maintenance of standard accounting and reporting of medical records in medical organizations dental profile; indications for hospitalization of patients	to conduct medical documentation of a different nature in stomatognathological outpatient clinics;	medical practices of accounting and reporting documentation in medical institutions

	PC-5	<p>is ready for collection and analysis of patient's complaints, the data of its history, physical examination, laboratory, instrumental, pathological-anatomical and other studies in order to determine the state or of ascertaining the presence or absence of dental disease</p>		<p>and in obtaining informed consent from the patient for diagnostic procedure</p>	<p>to collect a complete medical history of the patient, including information on the status of oral and dental</p>	<p>methods in common clinical-korobke-ment of patients; the assessment of dental health</p>
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				<p>on the ability and willingness to conduct and interpret a survey, physical examination, clinical examination, the results of modern laboratory and instrumental studies, morphological analysis of biopsy, surgical material, write a medical card inpatient and outpatient patient</p>	<p>requirements and rules in obtaining informed consent from the patient for diagnostic procedures; to gather a complete medical history, conduct a survey of the patient; to carry out a physical examination (inspection, palpation, of auscultation, measurement of blood pressure, pulse, respiratory rate), send it to the laboratory-but-instrumentale examination, a consultation of experts; to interpret the results of the survey; to evaluate the results of ultrasound diagnostics in dentistry</p>	<p>Clinical methods of examination of FACE; interpretation of results of laboratory and instrumental examination of adults; the technique of reading radiographs</p>
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	PC-6	Ability to determine in patients the main pathological conditions, symptoms, syndromes of dental diseases, nosological forms in accordance with the International statistical classification of diseases and related health (X view)		etiology, pathogenesis, diagnosis, treatment of the most common	diseases To determine the presence of fractures of the teeth and bones of the face, dislocation of the tooth and h/jaw on the radiograph; perform low-traumatic surgical intervention in patients of any age	by reading various types of radiographs, manual skills in operative dentistry, methods of conducting and infiltration anesthesia, principles
				principles of the International Statistical Classification of Diseases	substantiate the diagnosis taking into account the principles of the International Statistical Classification of Diseases	make a diagnosis based on the principles of the International Statistical Classification of Diseases

				<p>of the International Statistical Classification of diseases justify the diagnosis taking into account the principles of the International Statistical Classification of Diseases make a diagnosis taking into account the principles of the International Statistical Classification of Diseases etiology, pathogenesis, diagnosis, treatment and prevention of the most common surgical stomatological diseases, features of the clinical course of odontogenic inflammatory diseases of the maxillofacial region and methods of their treatment; features of the clinical course of non-odontogenic inflammatory diseases of the maxillofacial region and methods of their treatment; specific infectious diseases (syphilis, tuberculosis, actinomycosis) and their clinical</p>	<p>should be carried out in dental patients diagnostics of surgical diseases of the oral cavity, to reduce a dislocation of the temporomandibular joint; to identify clinical signs of acute and chronic traumatic facial pain somatic, neurogenic and psychogenic origin</p>	<p>of the clinical methods of examination of the maxillofacial region; algorithm preliminary diagnosis, final diagnosis,</p>
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	PC-8	Ability to determine the tactics of management of patients with various dental diseases,		methods of implementation of urgent actions and indications for hospitalization; the methods of providing aid for burns, cold and electric shock	to Determine condition that requires emergency dental and medical care, beyond the competence of the General dentist and immediately consult appropriate professionals	the Techniques of first aid for injuries of the maxillofacial region
	PC-9	Willingness to managing and treating patients with dental diseases in outpatient and day hospital		the role of sedation and sedation for dental procedures in adults	to provide VAT display-tion to conduct pre-medication and sedation in the dental-ical patients with surgical weight loss technology-who profile	the Methods of infiltration and conduction anesthesia in the oral cavity for surgical intervention
				to Interpret the results of the survey make a preliminary diagnosis		

				clinical manifestations of major syndromes requiring surgical treatment; types and methods of modern anesthesia	to spend less traumatic surgical intervention in patients of any age, including the removal of the tooth and root, a small surgery on the soft tissues; to perform an autopsy, processing and drainage of subperiosteal abscess; to reduce a dislocation of the temporomandibular joint	chiropractic skills in operative dentistry; methods of infiltration-Lannoy and conduction anesthesia in the oral cavity for the holding of the pieces of surgical treatment; conduct a simple tooth extractions and less traumatic surgical weight loss technological intervention-wide solution; stop bleeding after tooth extraction
				indications and contraindications for dental implant installation methods osteointegrated implants, dental prosthetics on implants.	Interpretation of the results of instrumental methods of diagnostics	Manual skills in the operative dentistry; methods of diagnosis and treatment of deformities and defects of the dentition

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

n /	Competence code	Section name of the discipline	The content of the section in teaching units
1.	of the military-industrial complex 6 PC 5 PC 6 PC 8 PC 9	Abscesses and phlegmons of the face and neck. Classification, etiology, and pathogenesis. Clinical picture. Diagnostics. General principles of treatment.	Abscess and phlegmon of the mouth, face and neck. Etiology and pathogenesis. Classification. Surgical anatomy of the interfascial and intermuscular cellular spaces of the head and neck. Ways of infection penetration and spread in soft tissues. General clinical characteristics of abscesses and phlegmon of the parotid and adjacent areas. Topical and differential diagnostics. Principles of complex treatment planning. Surgical treatment. Features of surgical treatment: abscess of the maxillofacial groove, infratemporal fossa, pterygoid-mandibular,

		Abscesses located in the oral cavity.	<p>paropharyngeal spaces and tongue</p> <p>The role of antibiotic therapy, detoxification, use of medications, immunotherapy, physical methods of treatment as ways to solve the problem of pathogenetic therapy of patients with odontogenic abscess, phlegmon. Principles of intensive care.</p> <p>Value for selecting online access.</p> <p>Anesthesia for surgical procedures for abscesses and phlegmon of the face and neck.</p>
2.	GPC 6 PC 5 PC 6 PC 8 PC 9	Complications of odontogenic inflammatory diseases of the face.	<p>Mediastinit.</p> <p>Odontogenic sepsis.</p> <p>Phlebitis and thrombophlebitis of the maxillofacial region. Etiology, pathogenesis, clinic, diagnosis and treatment.</p> <p>Thrombosis of the cavernous sinus.</p>
3.	GPC 6 PC 5 PC 6 PC 8 PC 9	Neognestrel trauma	<p>Classification of neognestrel facial trauma, its cause, frequency. Principles of providing assistance to victims with facial injuries. The concept of first aid, pre-medical, qualified and specialized care. Mechanism of neognestrel facial injuries. Methods of examination of victims: clinical, instrumental. Damage to the soft tissues of the face. Dislocations and fractures of teeth, fracture of the alveolar process of the upper jaw and the alveolar part of the lower jaw. Clinic, diagnosis, and treatment. Dislocations of the lower jaw. Classification, clinic, diagnosis, and treatment.</p> <p>Statistics of fractures of facial bones: lower and upper jaws, zygomatic bones, and nose bones. The frequency and nature of the fracture, its localization depending on the cause and mechanism of injury, anatomical features of the structure of the bones of the face. Classification of neognestrel fractures of the lower and upper jaws. Localization of fractures in "typical" places, their types. Clinical signs of mandibular and maxillary fractures, depending on their location. Mechanisms of displacement of fragments, their nature.</p> <p>Tactics of the doctor in relation to the tooth located in the fracture gap. Basic principles of treatment of patients with facial bone fractures: reposition, immobilization, medical and physical therapy. Treatment of patients with fractures of the lower and upper jaws. Ways to reposition fragments. Types of temporary (transport) immobilization. Their varieties: various types of bandages, standard bandage for transport immobilization, soft sling – like dressing Pomerantseva-Urban, various types of inter-maxillary ligature fastening. Indications for applying temporary immobilization methods, advantages of various methods.</p> <p>Therapeutic (permanent) methods of immobilization: conservative extra-laboratory and laboratory (orthopedic), surgical methods of fixing fragments. Indications and contraindications for the use of specific immobilization methods.</p> <p>Technique, method of manufacturing and applying dental splints. Indications for the use of orthopedic splints and laboratory-made devices in the historical aspect. Methods of osteosynthesis: bone suture, Kirschner's needle, bone plates, etc. Classification of extra-oral devices, their functional capabilities.</p> <p>Fractures of the zygomatic bone and arch, fractures of the nasal</p>

			<p>bones. Classification. Clinical signs, indications for reposition, methods of reduction of fragments and treatment. Features of management of patients in the postoperative period.</p> <p>Combined neognestrel injury of the maxillofacial region. Traumatic brain injury. Features of the clinical course and provision of specialized care to patients with concomitant trauma. Mutual burden syndrome. Uncomplicated reparative osteogenesis, its stages. Sources of reparative osteogenesis. Step-by-step regulation of reparative osteogenesis. Complications of jaw fractures: traumatic osteomyelitis, traumatic sinusitis, delayed consolidation of fragments, "false joint", consolidation in the wrong position, dacryocystitis. Causes, treatment, and prevention. Clinic of thermal injuries (burns, frostbite, electric shock, electromagnetic field) of the face.</p>
4.	<p>UC 1 GPC 6 PC 5 PC 6 PC 8 PC 9</p>	<p>Gunshot trauma</p>	<p>A brief history of the development of military maxillofacial surgery and traumatology. Subject and tasks of military dentistry in modern conditions. General characteristics, classification, clinical picture of gunshot wounds of the face and treatment of the wounded and injured. Clinical picture of various complications. Outcomes of gunshot wounds to the face. Measures to prevent complications and treat the wounded with these complications. Prolonged compression syndrome.</p> <p>Combined and combined facial lesions. Treatment of victims with these lesions. Basic principles of organization of stage-by-stage treatment of the injured and wounded in the face, the volume and procedure for providing assistance to this contingent of military personnel at the pre-hospital stages of medical evacuation. Modern principles, forces and means, procedure for rendering and maintenance of specialized medical care to the injured and wounded in the face at the hospital stages of medical evacuation. Basic principles and organization of rehabilitation of military personnel with injuries, diseases and wounds of the face. General provisions on medical examination of military personnel. Military medical expertise in dentistry, military maxillofacial surgery and traumatology.</p>
5.	<p>UC 1 GPC 6 PC 5 PC 6 PC 8</p>	<p>Contracture of the lower jaw</p> <p>Ankylosis of the temporomandibular joint</p>	<p>Causes and types of contractures (scars of the oral mucosa, muscles, skin, bone contracture). Prevention, methods of conservative and surgical treatment. Dissection and excision of scars, closure of defects, physical therapy and physical therapy.</p> <p>Etiology, pathogenesis, clinical manifestations. Mandibular mobility studies, X-ray diagnostics. Deformity of the lower jaw in ankylosis that develops during the growth period. Prevention and treatment of ankylosis. Basic methods of operations. Measures aimed at preventing relapse. Elimination of facial deformity in the treatment of ankylosis.</p> <p>Differential diagnosis of various types of persistent jaw reduction.</p>
6.	<p>UC 1 GPC 6 PC 5 PC 6 PC 8 PC 9</p>	<p>Reconstructive surgery of the face</p>	<p>Tasks of reconstructive surgery of the maxillofacial region. Types of facial defects and deformities, causes of their occurrence.</p> <p>Birth defects, developmental anomalies, deformities associated with impaired growth of various areas of the face.</p> <p>Defects and deformities of the maxillofacial region as a result of injuries, gunshot wounds, burns, and inflammatory diseases.</p>

		<p>Application of implants in maxillofacial surgery</p> <p>Bone grafting of the jaws.</p>	<p>Defects after removal of tumors of the face and oral organs. Defect analysis, assessment of anatomical, functional and aesthetic disorders. Development of a treatment plan.</p> <p>Basic methods of plastic surgery.</p> <p>Application of materials (biocomposites) in facial reconstructive surgery.</p> <p>Contour plastic surgery to correct the external contours of the face in case of its defects and deformities.</p> <p>Bone grafting of the jaws. Types and causes of lower jaw defects. Indications for bone grafting. Biological justification of bone grafting.</p> <p>Types of transplants. Possibilities of using canned bone and methods of preservation.</p> <p>Auto-bone grafting to eliminate mandibular defects.</p> <p>Preparing for surgery.</p> <p>Methods of fixation of grafts and fragments of the lower jaw during bone-plastic operations (titanium mini-plates, titanium reconstructive rods, metal with shape memory, splints, positioners, bimaxillary dental splints, extraoral devices).</p> <p>Postoperative management of the patient, his rehabilitation.</p> <p>Features of bone grafting of the lower jaw for fresh gunshot wounds and removal of tumors (primary bone grafting).</p> <p>Combined bone grafting.</p>
7.	<p>GPC 6</p> <p>PC 5</p> <p>PC 6</p> <p>PC 8</p>	<p>Plastic with local fabrics</p> <p>Plastic with scraps of fabrics from remote areas.</p> <p>Plastic surgery using free tissue transplantation.</p>	<p>Advantages, disadvantages, indications, and contraindications.</p> <p>The use of typical methods of plastic surgery with local tissues to eliminate defects in the lips and mouth area. Replacement of lip defects with flaps from the cheeks, from the nasolabial furrows, from the other lip, shortening of the frenulum of the lip and tongue.</p> <p>Mathematical justification of planning plastic surgery with local tissues (A. A. Limberg). Use symmetrical, non-symmetrical, and combined shapes.</p> <p>Plastic surgery with tissue flaps from remote areas. Development and implementation of the round stalk flap (V. P. Filatov flap). Biological justification of its use. Using a round stalk flap to replace defects in various parts of the face and oral organs.</p> <p>Formation of the nose from the tissues of a round stalk flap by the method of F. M. Khitrov.</p> <p>Plastic surgery using free tissue transplantation. Modern concepts of biological processes occurring during free transplantation of tissues and organs.</p> <p>Possibilities of using auto- and allotransplantation of various tissues, implants, and endoprostheses in maxillofacial surgery.</p> <p>Free skin grafting. Biological justification. Application to eliminate wound and granulating surfaces on the face and in the oral cavity of various types of skin flaps (thin, split, full thickness).</p> <p>Cartilage grafting as a support material and for correcting the contours of different areas of the face. Application of autochondria, cadaveric preserved cartilage.</p>

		The use of complex tissue complexes is carried out with local tissues taken in the vicinity of the defect, "flaps on the leg" taken from nearby tissues.	Application of complex tissue complexes on microvascular anastomosis. Types of flaps. Characteristics of donor zones. Indications, contraindications, advantages, disadvantages. Features of the method.
8.	GPC 6 PC 5 PC 6 PC 8	Gnathic surgery	Surgical treatment of jaw deformities. Malformations and deformities of the jaws. The main types of jaw deformities: underdevelopment (micrognathia) or excessive development (macrognathia) of the upper or lower jaw or their individual sections (prognathia and retrognathia), open bite. Clinical manifestations of defects and deformities, functional and aesthetic disorders. Indications for surgical treatment. Deformity analysis, refined diagnostics using telereöntgenography. Basic methods of operations to correct the size and shape of the lower jaw. Operative correction of the shape and position of the upper jaw. Features of surgical techniques, immobilization and postoperative management, prosthetics and rehabilitation of patients after surgery for jaw deformities. Contour plastic surgery to correct the shape of the face and jaws.
9.	GPC 6 PC 5 PC 6 PC 8	Aesthetic surgery	Definition of aesthetic surgery Aesthetic proportions of the face. Indications and contraindications for aesthetic operations on the face. Wrinkles of the face and neck. Clinic, diagnosis, classification, and treatment. Deformities of the auricles. Clinic, diagnosis, classification, and treatment. Deformities of the nose. Congenital and acquired diseases. Clinic, diagnosis, classification, and treatment.
10.	GPC 6 PC 5 PC 6 PC 8	Congenital pathology of the craniofacial region	Classification, clinic, diagnosis, indications for treatment. Types of surgical interventions.
11.	UC 1 GPC 6 PC 5 PC 6 PC 8 PC 9	Oncological diseases of the maxillofacial region	Definition of the tumor. Oncological alertness, oncological doctrine. Organization of an oncological service. Statistics and classification. WHO CIM. Modern ideas about the biological essence of tumors. Predisposing factors for the occurrence of malignant tumors of the maxillofacial region. Methods of examination of patients for the diagnosis of cancer. Precancerous conditions of the skin of the face, red border of the lips and oral mucosa.
12.	GPC 6 PC 5 PC 6 PC 8	Tumors and tumor-like lesions of the oral and maxillary mucosa originating from the multilayered	Squamous cell papilloma. Papillary hyperplasia. Features of the course of cancer of the oral mucosa. Cancer of the lip, tongue, and jawbones. Clinic, diagnosis, differential diagnosis, treatment. Basal cell carcinoma, squamous cell carcinoma, keratoacanthoma, nevi, malignant melanoma. Keratin cysts, dermoid cysts, branchial cysts and fistulas, thyroglossal cysts and

		squamous epithelium. Tumors, tumor-like skin lesions, and cysts of the face and neck. Soft tissue tumors.	neck fistulas. Fibroma, lipoma, benign neoplasms from blood vessels, peripheral nerve tumors.
13.	GPC 6 PC 5 PC 6 PC 8 PC 9	Odontogenic tumors, tumor-like lesions and cysts of the jaws. Bone tumors, tumor-like lesions and epithelial (neodontogenic) jaw cysts	Benign odontogenic tumors and tumor-like lesions: ameloblastoma, odontoma, cementoma, odontogenic fibroma, myxoma. Malignant odontogenic tumors. Odontogenic jaw cysts: keratocyst. Tooth-bearing cyst. Osteoma, osteoblastoma, osteosarcoma. Osteoclastoma. Epulis. Histiocytosis from Langerhans cells. Clinic, diagnosis, and treatment. General principles of treatment of patients with malignant tumors of the maxillofacial region. Objectives of the dentist in the system of providing specialized care to patients with maxillofacial tumors and their rehabilitation after surgical treatment.
14.	PC 5 PC 8	Radiation therapy	Indications for radiation therapy depending on the morphological structure and stage of the tumor. Osteoradionecrosis of the jaws, clinic, diagnosis, treatment.

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		
			7	8	9
Classroom work, including	6.61	238	44	64	130
Lectures (L)	1.39	50	12	14	24
Laboratory practicum (LP)*					
Practical (P)					
Clinical Practice Sessions (CPS)	5,22	188	32	50	106
Seminars (S)					
Student's individual work. (SIW)	4,39	158	28	44	86
Student's research work					
Intermediate certification					
<i>Exam</i>	1	36			Exam
TOTAL LABOR	INTENSITY	432	72	108	216
	12				

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Sem ester	Name of the section of the academic discipline	Types of academic work* (in AH)			
			L	PZ	SRS	is only
1.7	7	Abscesses and phlegmons of the face and neck.	12	20	18	50

		Classification, etiology, and pathogenesis. Clinical picture. Diagnostics. General principles of treatment. Abscesses located in the oral cavity.				
	7	Complications of odontogenic inflammatory diseases of the face.	-	12	10	22
2.	8	Neognestrel injury. Combined CHLO lesions	14	50	44	108
3.9	9	Inflammatory and dystrophic diseases of the temporomandibular joint	2	5	5.5	10.5
	9	Mandibular contracture Ankylosis of the temporomandibular joint	2	5	5.5	10.5
	9	Gunshot injury	2	15	12.5	31.5
	9	Facial reconstructive surgery Application of implants in maxillofacial surgery Bone grafting of the jaws.	2	5	4.5	11.5
	9	Plastic with local fabrics, Plastic with flaps of fabrics from remote areas. Plastic surgery using free tissue transplantation. Application of complex tissue complexes	2	5	3,5	10,5
	9	Prostatic surgery	2	10	8	20
	9	Aesthetic surgery	2	6	5	13
	9	Congenital pathology of the craniofacial region	2		3	3
	9	Oncological diseases of the maxillofacial region	2	17	21,5	44,5
	9	Tumors and tumor-like lesions of the oral and maxillary mucosa originating from the multilayer squamous epithelium. Tumors, tumor-like skin lesions, and cysts of the face and neck. Soft tissue tumors.	2	35	21,5	58,5
	9	Odontogenic tumors, tumor-like lesions and cysts of the jaws. Bone tumors, tumor-like lesions and epithelial (neodontogenic) jaw cysts	2	20	15	3
	9	Radiation therapy	2		1	3
TOTAL			50	288	158	396

* - L – lectures; LP-laboratory workshop; PZ – practical exercises; S-seminars; SRS – independent work of the student.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH		
		Semester 7	Semester 8	Semester 9
1-2.	Odontogenic abscesses and phlegmons of the face, neck and oral cavity. Classification. Pathogenesis. Endogenous intoxication syndrome in phlegmons of	4		

	odontogenic origin. Variants of the course of acute odontogenic infection.			
3	Abscesses localized in the oral cavity. Etiology, pathways of infection, pathogenesis. General clinical signs and treatment methods.	2		
4-5.	Abscesses and phlegmons adjacent to the upper and lower jaws. Clinical manifestations of abscesses depending on the location. Topical diagnostics. General principles of diagnosis	4		
6.	Phlegmon of the oral floor. Putrefactive-necrotic phlegmon of the face and neck. Features of surgical treatment. General principles of treatment. Principles of intensive care.	2		
1.	Neognestrelny damages of soft tissues of the face. Classification. Clinic, diagnosis and treatment of victims. Primary surgical treatment of neognestrel facial wounds. Its features.		2	
2.	Dislocations and fractures of teeth. Classification, clinic, diagnosis, and treatment.		2	
3.	Neognestrel fractures of the lower jaw. Mechanism of displacement of fragments. Classification, clinic, and diagnosis. Principles of temporary immobilization.		2	
4.	Neognestrel fractures of the bones of the middle zone of the face. Fractures of the upper jaw, zygomatic arch and bone, nose bones. Classification, clinic, and diagnosis. Principles of first and first aid		2	
5-6.	Treatment of patients with neognestrel fractures of the lower and upper jaws. Methods of immobilization of fragments. Drug therapy. Stepwise optimization of reparative osteogenesis.		4	
7.	Complications of neognestrel fractures of the jaws: suppuration of the bone wound, traumatic osteomyelitis, delayed consolidation, false joint, incorrect fusion of fragments		2	
1.	Wound ballistics, tissue damage zones, wound classification, statistics. Interrelation of anatomical and physiological features of the face and gunshot wounds. General patterns of the wound process after a gunshot wound. Reparative regeneration. Combat injuries to the soft tissues of the face.			2
2.	Features of gunshot wounds of the lower and upper jaws. Thermal lesions of the face. Combined and combined facial injuries.			2
3.	Principles of organization of step-by-step treatment of the wounded in person. Early and late complications after gunshot and thermal wounds to the face. Medical examination of the wounded in the face			2
4.	Principles of plastic surgery with local tissues and flaps on the feeding leg. Principles of surgical interventions with microvascular anastomoses.			2
5.	Surgical interventions for congenital and acquired deformities of the jawbones.			2

6.	Age-related changes in facial and neck tissues. Operations performed on soft tissues on the face and neck for aesthetic indications Aesthetic operations for congenital deformities of the nose and auricles.			2
7.	Odontogenic and neodontogenic jaw cysts. Classification. Main clinical manifestations. Radiological manifestations. Methods of surgical treatment. Postoperative complications and ways of prevention.			2
8.	Benign and malignant odontogenic tumors. Principles of surgical treatment and rehabilitation of patients. Benign bone and cartilage-forming tumors. Clinic, diagnosis, and treatment.			2
9.	Cancer of the oral floor mucosa with spread to the bone tissue of the lower jaw. Primary cancer of the lower jaw. Clinic, diagnosis, and treatment. Cancer of the tongue. Clinic, diagnosis, and treatment.			2
10.	Cancer of the maxillary sinus mucosa and oral mucosa with spread to the bone tissue of the upper jaw. Clinic, diagnosis, and treatment.			2
11.	Sarcomas of the maxillofacial region. Vascular neoplasms of the maxillofacial region.			2
12.	Operations on the neck lymphatic apparatus in case of metastasis. Indications and contraindications for radiation therapy depending on the morphological form and stage of the malignant process. Osteoradionecrosis of the jaws, clinic, diagnosis, treatment.			2
TOTAL 50 AH				
Lecture topics for independent study by students using DLT				
1.	Complications of odontogenic inflammatory processes of the face and neck: mediasthenitis. Topographic anatomy, clinical manifestations, methods of surgical treatment.	2		
2.	Complications of odontogenic inflammatory processes of the face and neck: Facial venous thrombophlebitis, cavernous sinus thrombosis, odontogenic sepsis.	2		
3.	Fracture of the alveolar process. Classification, clinic, diagnosis, and treatment. Dislocations of the lower jaw.		2	
4.	Combined lesions of the maxillofacial region. Burns, frostbite, radiation sickness.		2	
	Features of gunshot wounds of the lower and upper jaws. Thermal lesions of the face. Combined and combined facial injuries.		2	
	Principles of organization of step-by-step treatment of the wounded in the face. Early and late complications after gunshot and thermal wounds to the face. Medical		2	

	examination of the wounded in the face			
5.	Temporomandibular joint (structure). Survey methods. Inflammatory and dystrophic diseases of the temporomandibular joint.			2
6.	Mandibular contracture. Ankyloses. Classification. Differential diagnosis. Basic principles of surgical treatment.			2
7.	Introduction to maxillofacial surgery. Tasks and features of rehabilitation treatment in the maxillofacial region. Types of defects and deformities of the maxillofacial region. Planning of rehabilitation treatment. Use of implants in maxillofacial surgery.			2
8.	Cranio-fascial operations. Indications, contraindications, and general principles.			2
9.	Oncological alertness. Structure of the cancer service. Organization of assistance to patients with malignant tumors. Principles of medical examination. Principles of the WHO International Classification of Tumors. Modern methods of diagnostics of maxillofacial neoplasms. Indications and contraindications.			2
10.	Benign and malignant tumors of the salivary glands. Clinic, diagnosis, and treatment. Cysts of the salivary glands.			2
11.	Precancerous diseases of the red border of the lips and oral mucosa.			2
12.	Congenital fistulas and cysts of the face and neck. Clinic, diagnosis, and treatment. Complications of surgical treatment. Benign tumors and tumor-like soft tissue lesions of the maxillofacial region. Tumors, tumor-like lesions, and cysts of the facial skin. Clinical manifestations, differential diagnosis.			2
13.	Modern principles of treatment of patients with maxillofacial tumors. Organization of cancer care. Principles of medical examination of patients with maxillofacial neoplasms. Dispensary groups.			2

***(full-time, with the use DLT)**

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

6.2.3 Thematic plan of practicals:

<i>n /</i>	<i>a Name of the topics of practical classes</i>	<i>Semester</i>	<i>Volume in AC</i>	
1.	Abscesses of the face and neck. Classification, etiology, pathogenesis, ways of infection spread. General clinical signs and diagnostic methods.	5		
2.	Abscesses and phlegmons of the cellular spaces adjacent to the	5		

	upper jaw. Features of clinical manifestations of abscesses localized in the oral cavity (infratemporal fossa).			
3.	Abscesses and phlegmons of the cellular spaces adjacent to the lower jaw. Putrefactive-necrotic phlegmon of the oral floor. Features of clinical manifestations of abscesses localized in the oral cavity (maxillofacial groove, pterygoid-maxillary and pharyngeal spaces).	5		
4.	General principles of local and general treatment of abscesses and phlegmon of the maxillofacial region. Principles of intensive care.	5		
5.	Complications of maxillofacial inflammatory processes: mediasthenitis, odontogenic sepsis. Etiology, clinic, diagnosis, general principles of treatment.	6		
6.	Complications of maxillofacial inflammatory processes: phlebitis and thrombophlebitis of the maxillofacial region, thrombosis of the cavernous sinus. Etiology, clinic, diagnosis, general principles of treatment.	6		
1.	Neognestrel facial injury. Classification. Principles of diagnosis and treatment. Features of surgical treatment of wounds of soft tissues of the face (primary, repeated, secondary).		5	
2.	Dislocations and fractures of teeth. Fracture of the alveolar process. Etiology, clinical picture, diagnosis, treatment methods.		5	
3.	Dislocation of the lower jaw. Classification, clinical picture, diagnosis, treatment. Neognestrel fractures of the lower jaw. Classification, clinic, and diagnosis. Mechanisms of displacement of jaw fragments.		5	
4.	Principles of complex treatment of jaw fractures. Conservative and surgical methods of immobilization in mandibular fractures		5	
5.	Neognestrel fractures of the upper jaw. Classification, clinic, and diagnosis. Mechanisms of displacement of jaw fragments. Combined facial injuries. Features of the clinical course. Combined traumatic brain injury.		5	
6.	Principles of complex treatment of jaw fractures. Conservative and surgical methods of immobilization in upper jaw fractures. Patient care.		5	
7.	Fractures of the zygomatic bone, zygomatic arch, and nasal bones. Clinical picture, diagnosis, and treatment.		5	
8.	Stages and stages of reparative osteogenesis. Complications of		5	

	neognestrel fractures of the jaws. Etiology, clinical picture, diagnosis, general principles of treatment.			
9.	Combined facial injuries. Features of the clinical course. Radiation injuries.		5	
10.	Thermal damage to the upper respiratory tract (burns, frostbite, electric shock and high-frequency radiation). Clinical picture and treatment. Final lesson		5	
1.	Etiology, clinic, diagnosis, and methods of treatment of acute and chronic TMJ arthritis.			5
2.	Etiology, clinical picture, diagnosis, methods of treatment of TMJ dystrophic diseases. Etiology, clinical picture, diagnosis, surgical methods of treatment of TMJ ankylosis. Mandibular contracture.			5
3.	Scope and procedure for providing assistance to the wounded at the stages of medical evacuation. Medical triage.			5
4.	Principles of medical examination of military personnel. Rehabilitation of victims.			5
5.	Planning of rehabilitation treatment. Techniques of plastic surgery with local tissues. Complications and methods of their prevention. Plastic flaps on the feeding leg. Types of flaps, indications and contraindications. Complications. Elimination of defects and deformations of the CHLO with round stalk flap tissues. Complications.			5
6.	Free skin plastic surgery. Possibilities of using auto-and allotransplantation of various tissues (bone, cartilage, fascia), implants and endoprotheses. Ways to fix it. Advantages and disadvantages			5
7.	Congenital and acquired deformities of the zygomatic-orbital complex and nose. Clinical picture, differential diagnosis. Indications and contraindications for operations. Complications and methods of their prevention. Rehabilitation.			5
8.	Congenital and acquired deformities of the lower and upper jaw. Clinical picture, diagnosis. Complications during and after surgery. Rehabilitation.			5
9.	Organization of oncological services. Oncological alertness. Methods of examination of patients with CHLO neoplasms.			5
10.	Odontogenic and neodontogenic jaw cysts. Clinical picture, differential diagnosis, treatment.			5
11.	Benign and malignant odontogenic tumors. Clinical picture,			5

	diagnosis, treatment			
12.	Benign bone and cartilage-forming tumors. Clinical picture, diagnosis, and treatment.			5
13.	Tumor-like lesions of the jaws. Clinical picture, diagnosis, and treatment. Histiocytosis from Langerhans cells. Clinical picture, diagnosis, and treatment.			5
14.	Tumours, tumour-like lesions and cysts of the facial skin. Congenital fistulas and cysts of the face and neck. Clinical picture, diagnosis, and treatment.			5
15.	Precancerous diseases of the skin of the face, red border of the lips and oral mucosa. Nevi, melanoma. Clinical picture, diagnosis, and treatment.			5
5-16.	Benign tumors and tumor-like soft tissue lesions of the upper respiratory tract. Principles of medical examination.			5
17.	Cancer of the lower lip. Clinical picture, diagnosis, and treatment. Cancer of the tongue. Clinical picture, diagnosis, and treatment. Cancer of the oral floor mucosa with spread to the bone tissue of the lower jaw.			5
18.	Primary cancer of the lower jaw. Clinical picture, diagnosis, and treatment. CHLO sarcomas. Clinical picture, diagnosis, and treatment.			5
19.	Cancer of the maxillary sinus mucosa and oral mucosa with spread to the bone tissue of the upper jaw. Clinical picture, diagnosis, and treatment. Operations on the neck lymphatic apparatus for malignant tumors of the CHLO.			5
20.	Benign and malignant tumors of the salivary glands. Clinical picture, diagnosis, and treatment. Cysts of the salivary glands.			5
21.	Osteoradionecrosis of the jawbones. Etiology, clinic, treatment, and prevention. Rehabilitation of patients after complex treatment for cancer of the upper respiratory tract. Final interview. Protecting your medical history.			6

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

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

n / a	Types and topics of the SIW	Volume in AC		
		Semester 4	Semester 5	Semester 6
1	Preparation for clinical practical classes, homework, preparation for current control	24	12	8
2	Working with lecture material	8	6	4

3	Working with electronic resources on the portal of distance education of PIMU	10	8	6
4	Studying the material, self-study (individual topics, paragraphs), work with literature sources	6	4	4
5	Preparation for testing, online testing	4	2	4
6	Preparation for the test on practical skills (examination methods)	--	-	4
7	Writing a fragment of the medical history	4	2-8	-
8	Writing a control medical history	--	-	4
9	Total	56	34	34

p / no.	Types and topics of the SIW	Volume in AC		
		7 sem	8 sem	9 sem
1.	Preparation for clinical practical classes, homework, preparation for current control	7	10	26
2.	Working with lecture material	4	4	10
3.	Working with electronic resources on the portal of distance education	of PIMU 4	4	8
4.	Studying the material submitted for independent study (individual topics, paragraphs), working with literature sources	4	4	10
5.	Preparation for testing, online testing	2	2	2
6.	Preparation for the test on practical skills (examination methods)	2	5	8
7.	Writing a control medical history	3	5	6
	Type of intermediate control (testing)	2	2	2
	TOTAL	28	36	72

6.2.6 Student's research work:

nn \ n	Name of the topics of the student's research work	Volume in AC	
		semester	semester
1	Traumatic injuries of the zygomatic-orbital complex. Modern methods of surgical treatment.	8	
2	TMJ diseases: arthrosis, ankylosis. Modern diagnostic methods and surgical aspects of treatment.		9

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

№ n /	№ a Semester	number Forms of control	Name of the discipline section	Assessment tools		
				Types	Number of questions in the task	Number of independent options
1.	7, 8, 9	Control of students' independent work	All sections of the discipline	1. Drawing up situational tasks on a given topic 2. Writing and defending research papers 3. Creating presentations on a	1-2 2 2	

				given topic 4. Translation of a journal article on the topic under study from foreign sources	1	
2.	7, 8, 9	Control of topic	development of all sections of the discipline	Tests Testing of practical skills. Oral questionnaire Control work (solving situational problems of different levels of complexity) Writing prescriptions Reading radiographs Taking credit on the methods of examination of a dental patient	30 2 2 1 1 1 3	Computer testing (the option is formed by random sampling 6 6-10 (for each topic) 6-10 (for each topic) 8-10 4-8
3.	9	Intermediate certification (exam)	Maxillofacial Surgery	Questionnaire	Ticket (3 questions) Situational task of the X-ray program	40 40 40
4.	7, 8, 9	Control of students independent work	All sections of the discipline	1. Drawing up situational tasks on a given topic 2. Writing and defending research papers 3. Creating presentations on a given topic 4. Translation of a journal article on the subject under study from foreign sources	1-2 2 2 1	

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. Novgorod: Publishing House of Privolzhskiy Research Medical University, 2021.	http://nbk.pimunn.net/MegaPro/UserEntry?Action=Link_FindDoc&id=224823&idb=0	
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	1. 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,		1

	2003.		
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 pharmaceu-	from any computer on the internet with an individual username and password [electronic resource] – Ac-	PIMU general subscription

	tical education. The publications are structured by specialties and disciplines in accordance with the current FSES HE	cess mode: http://www.studmedlib.ru/	
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 information.	Free access from PIMU computers. [electronic resource] – Access mode: http://apps.webofknowledge.com	Free access from PIMU computers

8.3.3 Open access resources

Name of the electronic resource	Brief description (content)	Access conditions
Federal electronic medical library	FEML contains electronic analogues of printed publications and independent original electronic publica-	from any computer with the Internet

(FEML)	tions which have no analogues. electronic resource] – Access mode: http://нэб.рф/	
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.

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

15.

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

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
MAXILLOFACIAL 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)