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MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA

**Federal State Budgetary Educational Institution
of higher education**

**«I.N. Ulianov Chuvash State University»
(FSBEI of HE «I.N. Ulianov Chuvash State University»)**

Medical Faculty

Oral and Maxillofacial Surgery and Dentistry Department

«APPROVE»

Vice-rector for Academic Affairs


I.E. Poverinov

« 13 » 04 2022

**Working programs of the discipline (module)
«Хирургическая стоматология / Surgical Dentistry»**

Direction of training / specialty 31.05.03 Стоматология / Dentistry
Graduate's qualification Врач-стоматолог / Dental Practitioner

Direction (profile) / specialization «Dentistry»

Form of training – очная / intramural

Course – 3, 4

Term – 5, 6, 7, 8

Total academic hours/credit points – 324/9

The year of beginning the training – 2022

The fundamental document for compiling the working program of the discipline (module)
Федеральный государственный образовательный стандарт высшего образования -
специалитет по специальности 31.05.03 Стоматология (приказ Минобрнауки России от
12.08.2020 г. № 984)

Approved by:

Senior Lecturer A.V. Smirnova

The working program was approved at the meeting of the Oral and Maxillofacial Surgery
and Dentistry Department,
25.03.2022, protocol № 10
Head of the department V.V. Trubin

Approved by

Dean of the Medical Faculty V.N. Diomidova

Acting Head of the Educational and Methodological Department E.A. Shirmanova

1. The purpose and objectives of training in the discipline (module)

The purpose of the discipline - to train a dentist who is able to help patients with oral diseases.

The objectives of the discipline - - familiarization with the principles of organization and operation of outpatient departments and offices of surgical dentistry, prevention of nosocomial infections in outpatient treatment and prophylactic institutions in the field of dentistry and maxillofacial surgery, creation of favorable conditions for the treatment and stay of patients in medical institutions and working conditions of medical staff;

- familiarization with occupational health and safety measures, prevention of occupational diseases, monitoring compliance with and provision of anti-epidemic measures;

- mastering methods of prevention of dental diseases of the population, as well as prevention of complications in the clinic of surgical dentistry;

- mastering diagnostic methods in the examination of patients with diseases, injuries, defects and deformations of oral tissues;

- development of diagnostic methods for symptomatic manifestations of somatic and infectious diseases in the oral cavity in patients with surgical dental profile;

- mastering methods of conservative and surgical treatment, methods of prevention of complications in surgical treatment, as well as rehabilitation of patients with inflammatory diseases of the oral cavity, in the provision of outpatient dental surgical care;

- familiarization with the principles of organization and examination of the ability to work of patients with dental surgical profile;

- familiarization with office work in a dental surgical clinic;

- familiarization with the organization of work with medicines and compliance with the rules of their storage in a dental surgical clinic;

- formation of skills for studying scientific literature and official statistical reviews, preparation of abstracts, reviews on modern scientific problems in the field of maxillofacial surgery and surgical dentistry;

- formation of communication and interaction skills with the team, partners, patients and their relatives.

2. The place of practical training in the structure of the educational program of higher education

The discipline «Хирургическая стоматология / Surgical Dentistry» относится к обязательной части учебного плана refers to the mandatory part in the curriculum of the educational program of higher education (hereinafter referred to as the EP of HE) in the field of training / specialty 31.05.03 Стоматология, direction (profile) / specialization of the program «Dentistry».

Previous academic disciplines (modules) and (or) practices that form the knowledge, skills and abilities necessary for training in the discipline (module):

Профилактическая стоматология / Preventive Dentistry

Пропедевтическая стоматология / Propraedeutic Dentistry

Пропедевтика внутренних болезней / Propraedeutics of Internal Diseases

Общая хирургия / General Surgery

Материаловедение в ортопедической практике / Materials Science in Orthopedic Practice

Производственная практика (клиническая практика по стоматологии общей практики) / On-the-job training (clinical practice in general dentistry)

Knowledge, skills and abilities formed as a result of training in a discipline (module) are necessary when teaching in the following disciplines (modules) and (or) practices:

Терапевтическая стоматология / Therapeutic Dentistry
 Детская стоматология / Pediatric Dentistry
 Ортопедическая стоматология / Orthopaedic Dentistry
 Челюстно-лицевая хирургия / Maxillofacial Surgery
 Подготовка к сдаче и сдача государственного экзамена / Preparation for passing and passing the state exam
 Лучевая диагностика / Diagnostic Radiology
 Дерматовенерология / Dermatovenereology
 Оториноларингология / Otorhinolaryngology
 Неврология / Neurology
 Офтальмология / Ophthalmology
 Ортодонтия и детское протезирование / Orthodontia and Pediatric Prosthetics
 Клиническая лабораторная диагностика / Clinical Laboratory Diagnostics
 Неотложные состояния в клинике внутренних болезней / Emergency Conditions in the Clinical Presentation of Internal Diseases
 Внутренние болезни / Internal Diseases
 Фтизиатрия / Phthisiology
 Хирургические болезни / Surgical Diseases
 Педиатрия / Pediatrics
 Дентальная имплантация в стоматологии / Dental Implantation in Dentistry
 Психиатрия и наркология / Psychiatry and Addiction Medicine
 Производственная практика (практика по получению профессиональных умений и опыта профессиональной деятельности (по хирургической стоматологии)) / On-the- job training (practical training in obtaining professional skills and professional experience (in surgical dentistry))
 Клиническая фармакология / Clinical Pharmacology
 Фармакология / Pharmacology
 Физиотерапия в стоматологии / Physiotherapy in Dentistry

3. Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Code and name of the competence	Code and name of the competence achievement	Descriptors for the indicator of competence achievement (learning)
ОПК-2 Способен анализировать результаты собственной деятельности для предотвращения профессиональных ошибок / He/she is able to analyze the results of his/her own activities to prevent professional errors	ОПК-2.1 Способен проводить анализ эффективности и безопасности проводимых медицинских вмешательств / He/she is able to analyze the effectiveness and safety of medical interventions	Groups of drugs used to provide medical care in the treatment of dental diseases, their mechanism of action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen Have the skills of independent analytical work with various sources of information, as well as the willingness to analyze the results of their own activities to prevent professional mistakes

		Providing medical care to children and adults with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an urgent form
ОПК-2 Способен анализировать результаты собственной деятельности для предотвращения профессиональных ошибок / He/she is able to analyze the results of his/her own activities to prevent professional errors	ОПК-2.2 Способен планировать мероприятия, направленные на профилактику осложнений медицинских вмешательств / He/she is able to plan activities aimed at preventing complications after medical interventions	Preventive measures that prevent the development of complications of medical interventions Plan activities aimed at preventing complications of medical interventions The use of medications and medical devices in the provision of medical care to patients with complications of medical interventions
ОПК-2 Способен анализировать результаты собственной деятельности для предотвращения профессиональных ошибок / He/she is able to analyze the results of his/her own activities to prevent professional errors	ОПК-2.3 Способен проводить и контролировать эффективность мероприятий по профилактике осложнений медицинских вмешательств / He/she is able to conduct and monitor the effectiveness of measures to prevent complications of medical interventions	Preventive measures that prevent the development of complications of medical interventions To carry out and monitor the effectiveness of measures to prevent complications of medical interventions; Work with laws, by-laws, regulatory and methodological literature regulating the examination of temporary disability and quality control of medical care Methods of prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of medicines and (or) medical devices, non-drug treatment at a dental appointment; Prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of medications and (or) medical devices, non-drug treatment at a dental appointment
ОПК-5 Способен проводить обследование	ОПК-5.1 Способен применять алгоритм	Fundamentals of the legislation of the Russian Federation, the main

<p>пациента с целью установления диагноза при решении профессиональных задач / He/she is able to conduct a patient's examination in order to make a diagnosis when solving professional problems</p>	<p>обследования пациента / He/she is able to apply the algorithm of patient's examination</p>	<p>regulatory and technical documents on public health protection; Dental instruments and equipment Interpret the survey results; To make a preliminary diagnosis to the patient, to outline the scope of additional studies to clarify the diagnosis; Formulate a clinical diagnosis Methods of maintaining medical accounting and reporting documentation in medical organizations; Assessments of the state of dental health of the population of various age and gender groups; Methods of general clinical examination of patients; Clinical methods of examination of the maxillofacial region</p>
<p>ОПК-5 Способен проводить обследование пациента с целью установления диагноза при решении профессиональных задач / He/she is able to conduct a patient's examination in order to make a diagnosis when solving professional problems</p>	<p>ОПК-5.2 Способен применять навыки обследования пациента (сбор жалоб, анамнеза, физикальное обследование) / He/she is able to apply the skills of examining the patient (collecting complaints, taking the history, carrying out physical examination)</p>	<p>Rules and sequence of the survey, examination of the patient; The main clinical manifestations of dental diseases Collect a complete medical history of the patient, including data on the condition of the oral cavity and teeth; Conduct a survey of the patient and his relatives (collect biological, medical, psychological and social information) Methods of objective examination of patients; Methods of examination of patients with diseases of the maxillofacial region</p>
<p>ОПК-5 Способен проводить обследование пациента с целью установления диагноза при решении профессиональных задач / He/she is able to conduct a patient's examination in order to make a diagnosis when solving professional problems</p>	<p>ОПК-5.3 Способен анализировать информацию полученную при обследовании пациента / He/she is able to analyze the information obtained during the patient's examination</p>	<p>Clinical features, specificity of the course and possible complications of the most common diseases occurring in a typical form; Clinical manifestations of major syndromes requiring surgical treatment To assess the conditions arising from acute diseases, exacerbation of chronic dental diseases Algorithms and methods for detecting acute sudden and chronic diseases, as well as diseases that pose a threat to the</p>

		<p>patient's life, including conditions of clinical death;</p> <p>Collection and analysis of patient complaints, his anamnesis data</p>
<p>ОПК-6 Способен назначать, осуществлять контроль эффективности и безопасности немедикаментозного и медикаментозного лечения при решении профессиональных задач / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmacological therapy in solving professional problems</p>	<p>ОПК-6.1 Способен определить показания и противопоказания при назначении медикаментозного, немедикаментозного и иных методов лечения / He/she is able to determine the indications and contraindications when prescribing medication, non-drug and other methods of treatment</p>	<p>Clinical features, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their treatment</p> <p>To develop optimal tactics for the treatment of dental pathology in children and adults, taking into account the general somatic disease and further rehabilitation of the patient;</p> <p>Determine the methods of administration, regimen and dose of medications;</p> <p>Develop a treatment plan taking into account the course of the disease, select, prescribe drug therapy, use non-drug treatment methods</p> <p>Selection of the type of local anesthesia;</p> <p>Selection of medications for the treatment of dental diseases;</p> <p>Preparation of a comprehensive treatment plan</p>
<p>ОПК-6 Способен назначать, осуществлять контроль эффективности и безопасности немедикаментозного и медикаментозного лечения при решении профессиональных задач / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmacological therapy in solving professional problems</p>	<p>ОПК-6.2 Способен оценить риски связанные с использованием медикаментозного, немедикаментозного и иных методов лечения / He/she is able to assess the risks associated with the use of medicamentous therapy, drug-free modalities and other methods of treatment</p>	<p>Features of providing medical care in emergency forms for dental diseases;</p> <p>Clinical features, main methods of treatment (medical indications, contraindications, complications) of diseases of the bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint;</p> <p>Clinical features, main methods of treatment (medical indications, contraindications, complications) of diseases of the salivary glands, congenital, acquired anomalies of teeth, dentition, alveolar processes, jaws, face</p> <p>Analyze the effect of non-drug treatment methods on the totality of their properties;</p> <p>Analyze the effect of drugs on the totality of their pharmacological effects</p>

		Provision of medical care in emergency and urgent forms for acute dental diseases, conditions, exacerbation of chronic diseases that pose a threat to the patient's life or without obvious signs of a threat to the patient's life
ОПК-6 Способен назначать, осуществлять контроль эффективности и безопасности немедикаментозного и медикаментозного лечения при решении профессиональных задач / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmacological therapy in solving professional problems	ОПК-6.3 Способен оценить эффективность медикаментозного, немедикаментозного и иных методов лечения / He/she is able to assess the effectiveness of pharmacological therapy, non-drug and other methods of treatment	Clinical features, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their treatment Evaluate the effectiveness and safety of medical treatment methods; Evaluate the effectiveness and safety of non-drug treatment methods Assessment of possible complications caused by the use of local anesthesia; Assessment of possible side effects from taking medications
ПК-1 Способен провести обследования пациента с целью установления диагноза / He/she is able to perform a patient's examination in order to make a diagnosis	ПК-1.1 Способен провести физикальное обследования пациента (сбор жалоб и анамнеза, осмотр, пальпация, перкуссия) / He/she is able to conduct a patient's physical examination (taking a history, inspection, palpation, percussion)	Anatomy of the maxillofacial region, features of blood supply and innervation; structure of teeth; histology and embryology of the oral cavity and teeth, the main disorders of embryogenesis; Materials science, technologies, equipment and medical products used in dentistry Conduct an objective examination in diseases of the maxillofacial region; Use additional examination methods; Develop a patient examination plan taking into account the course of the disease Methods of examination of children and adults with dental diseases of the surgical profile of the mucous membrane of the oral cavity and lips, teeth and jaws determination of indications for referral to specialist doctors
ПК-1 Способен провести обследования пациента с целью установления диагноза / He/she is able to perform a patient's	ПК-1.2 Способен анализировать информацию, полученную при проведении	Algorithms for providing surgical dental care; Clinical manifestations of major syndromes requiring surgical treatment

<p>examination in order to make a diagnosis</p>	<p>физикального обследования, дополнительных методов исследования, сформулировать предварительный диагноз / He/she is able to analyze the information obtained during the physical examination, additional examination methods, formulate a preliminary diagnosis</p>	<p>Formulate a preliminary diagnosis, substantiate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents Interpretation of the results of laboratory, instrumental diagnostic methods in patients of different ages; The method of reading various types of radiographs</p>
<p>ПК-1 Способен провести обследования пациента с целью установления диагноза / He/she is able to perform a patient's examination in order to make a diagnosis</p>	<p>ПК-1.3 Способен сформулировать диагноз на основании полученной информации / He/she is able to formulate a preliminary diagnosis on the basis of information obtained</p>	<p>Modern methods of clinical, laboratory and instrumental diagnostics of patients with therapeutic, surgical and infectious profile Collect a complete medical history of the patient, including data on the condition of the oral cavity and teeth; Conduct a survey of the patient and his relatives (collect biological, medical, psychological and social information); Use medications and medical devices in the provision of medical care Development of a treatment plan for children and adults with dental diseases, taking into account the formulated clinical diagnosis, age and clinical picture in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p>
<p>ПК-2 Способен назначить, контролировать эффективность и безопасность немедикаментозного и медикаментозного лечения / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmaceutical treatment</p>	<p>ПК-2.1 Способен разработать план лечения, назначить лекарственные препараты, немедикаментозное лечение, медицинские изделия в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями</p>	<p>The procedure for providing medical care to adults with dental diseases; Clinical recommendations on the provision of medical care to patients with dental diseases; Standards of medical care; Methods of drug and non-drug treatment, medical indications for the use of medical devices for dental diseases Develop a treatment plan for children and adults with dental</p>

	<p>(протоколами лечения) по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи / He/she is able to develop a treatment plan, prescribe medications, non-drug treatment, medical devices in accordance with current procedures for providing medical care, clinical recommendations (treatment protocols) on the issues of providing medical care, taking into account the standards of medical care</p>	<p>diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; To select and prescribe medications, medical devices (including dental materials), dietary nutrition, therapeutic and wellness regimen for the treatment of children and adults with dental diseases in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care Selection and appointment of medications, medical devices (including dental materials) for the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; The appointment of dietary nutrition, therapeutic and health regime in the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p>
<p>ПК-2 Способен назначить, контролировать эффективность и безопасность немедикаментозного и медикаментозного лечения / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmaceutical treatment</p>	<p>ПК-2.2 Способен контролировать эффективность и безопасность назначенного лечения, при необходимости корректировать его в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями (протоколами лечения) по вопросам оказания</p>	<p>Principles, techniques and methods of anesthesia, selection of the type of local anesthesia in the treatment of dental diseases; Methods of preventing or eliminating complications, side effects, adverse reactions, including serious and unforeseen, that occurred during the examination or treatment of patients with diseases of the teeth, pulp, periodontal, parodontal, oral and lip mucosa ; Features of providing medical care in emergency forms for</p>

	<p>медицинской помощи с учетом стандартов медицинской помощи / He/she is able to monitor the effectiveness and safety of the prescribed treatment, if necessary, adjust it in accordance with current procedures for providing medical care, clinical recommendations (treatment protocols) on providing medical care, taking into account the standards of medical care</p>	<p>dental diseases To determine medical indications and contraindications to the implementation of methods of local anesthesia in MFA; To carry out local anesthesia (application, infiltration, conduction) in children and adults with dental diseases: - injection of drugs into the MFA - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopic teeth): - tooth extraction - removal of a temporary tooth - permanent tooth removal - opening and drainage of an odontogenic abscess Prevent or eliminate complications, side effects, undesirable reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of medications and (or) medical devices, non-drug treatment Performing medical interventions in children and adults with dental diseases in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p>
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4. Structure, scope and content of the discipline (module)

Educational activities in the discipline (module) are carried out:

- in the form of students' face-to-face work with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (hereinafter - contact work);

- in the form of students' independent work.

Face-to-face work can be classroom-based, extramural, as well as it can be conducted in an electronic information and educational environment (EIEE).

Learning sessions in the discipline (module) and interim assessment of students are conducted in the form of face-to-face work and in the form of students' independent work.

During learning sessions in the discipline (module) face-to-face work includes: lecture-type classes, seminar-type classes and (or) group consultations, and (or) individual

work of students with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (including individual consultations).

Legend:

Lec – lectures, Lab – laboratory work, Pr – practical classes, ICW – individual face-to-face work, IW – independent work.

4.1. Content of the discipline (module)

Section name	The section's content	Formed competences	Competence achievement indicator
Section 1. "Organization of surgical dental care and examination in surgical dentistry" (from the module "Oral surgery")	Topic 1. Introductory lesson. Goals and objectives of surgical dentistry. Its place among other disciplines. Medical documentation. Standards of medical care. Legal responsibility.		
	Topic 2. Organization and equipment of a dental surgical office. Aseptics and antiseptics. Examination kit of a dentist -surgeon. Surgical instruments used in maxillofacial surgery and dentistry.		
	Topic 3. Objective and additional examination of patients in surgical dentistry		
Section 2. (module) "Local anesthesia and anesthesiology in dentistry"	Topic 4. The purpose and objectives of anesthesia. Basic and additional methods of local anesthesia in outpatient dental practice		
	Topic 5. Local anesthetics. Characteristics of drugs		
	Topic 6. Modern tools for local anesthesia in dentistry. A computerized and needle-free injector. Types of needles. Periodontal anesthesia		

	<p>methods (intraalveolar anesthesia, intraosseous, intrapulpal). Intraoral methods used for anesthesia of interventions on the upper jaw: infiltration anesthesia. Infraorbital, nasopalatine, posterior superior nerve blocks. The great palatine, pterygo-palatine nerve blocks.</p>		
<p>Section 2. (module) "Local anesthesia and anesthesiology in dentistry"</p>	<p>Topic 7. Intraoral methods of anesthesia used on the lower jaw. Infiltration anesthesia. Mandibular anesthesia, thorus. Methods of blockade of the inferior alveolar nerve according to P.M. Egorov; blockade of the inferior alveolar nerve according to Gow-Gates; blockade of the inferior alveolar nerve with limited mouth opening according to Vazirani- Akinozi; blockade of the mental nerve and incisor branch according to Malomed. Blockade of the buccal nerve. Indications and contraindications to their use.</p> <p>Topic 8. Extra-oral methods of anesthesia in MFA: blockade by Bershe- Egorov, anesthesia by Bershe-Dubov, anesthesia by Bershe-Dubov-Uvarov, anesthesia by Weisblat. Mandibular, tuberal, infraorbital, mental, incisor anesthesia with extra-oral access.</p> <p>Topic 9. Errors and complications of local anesthesia in dentistry caused by a violation of the technique of its implementation. Complications of local</p>		

	<p>anesthesia caused by the wrong choice of the drug. Features of anesthesia in patients at risk. Narcosis. Premedication.</p>		
<p>Section 2. (module) "Local anesthesia and anesthesiology in dentistry"</p>	<p>Topic 10. Intensive therapy for acute cardiovascular insufficiency, acute respiratory failure, allergic conditions, endocrine disorders, convulsive seizure</p>		
	<p>Topic 11. Clinical death. Indications and contraindications, organizational aspects and features of cardiopulmonary resuscitation in the outpatient clinic.</p>		
<p>Section 3. (module) "Oral surgery"</p>	<p>Topic 12. Tooth extraction operation :indications and contraindications. Stages of the tooth extraction operation.</p>		
	<p>Topic 13. Local complications that occur during tooth extraction surgery. Prevention and elimination of complications. Complications arising after tooth extraction. Early and late. Alveolitis. Prevention and methods of their elimination. Features of dental extraction surgery in patients at risk</p>		
	<p>Topic 14. Teething diseases. Retention and dystopia of teeth. Difficult eruption of the third lower molar. Clinic, diagnosis, differential diagnosis, treatment. Operculum.</p>		
	<p>Topic 15. Odontogenic inflammatory diseases of the jaws. Classification, etiology, pathogenesis, pathological anatomy.</p>		

	<p>Acute periodontitis. Etiology, pathogenesis, clinic, diagnosis, treatment.</p>		
<p>Section 3. (module) "Oral surgery"</p>	<p>Topic 16. Chronic periodontitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment. Radicular cyst. Surgical methods of treatment of chronic periodontitis.</p>		
	<p>Topic 17. Acute odontogenic periostitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment.</p>		
	<p>Topic 18. Odontogenic osteomyelitis: etiology, pathogenesis, pathological anatomy. Acute stage of odontogenic osteomyelitis: clinic, diagnosis, treatment. Differential diagnosis of acute periodontitis, periostitis and odontogenic osteomyelitis of the jaws.</p>		
	<p>Topic 19. Subacute and chronic stages of odontogenic osteomyelitis of the jaws. Clinic, diagnosis, treatment.</p>		
	<p>Topic 20. Odontogenic maxillary sinusitis. Etiology, pathogenesis. Classification. Clinic, diagnostics, differential diagnostics. Methods of surgical treatment. Perforation and fistula of the maxillary sinus. Reasons. Clinic, diagnostics. Methods of surgical closure of perforation of the bottom of the maxillary sinus</p>		
	<p>Topic 21. Topographic anatomy of the lymphatic apparatus of the maxillofacial region.</p>		

	<p>Lymphadenitis of the face and neck. Classification, etiology, pathogenesis. Clinic of acute lymphadenitis. Diagnostics, differential diagnostics. Treatment</p>		
<p>Section 3. (module) "Oral surgery"</p>	<p>Topic 22. Furuncle, carbuncle of the face. Erysipelas. Classification, etiology, pathogenesis. Clinic. Diagnostics, differential diagnostics. Treatment</p>		
	<p>Topic 23. Specific inflammatory diseases. Actinomycosis of the jaws, face and neck. Classification. Etiology and pathogenesis. Ways of infection penetration. Clinic, diagnostics, differential diagnosis and treatment methods</p>		
	<p>Topic 24. Tuberculosis of the jaws, face and neck. Clinic, diagnosis, differential diagnosis, treatment. Diphtheria. AIDS. Manifestations in the maxillofacial region. Diagnostics, prevention of the spread. Syphilis. Manifestations in the oral cavity. Diagnosis and prevention</p>		
	<p>Topic 25. Abscesses of the face and neck. Etiology, pathways of infection, pathogenesis. General clinical signs and treatment methods. Principles of intensive care</p>		
	<p>Topic 26. Abscess of the pterygoid-mandibular space and the lingvo- mandibular space. Clinic, diagnosis, treatment.</p>		
	<p>Topic 27. Abscess of the body of the tongue, the hard palate, the infraorbital area. Clinic, diagnosis,</p>		

	treatment		
Section 3. (module) "Oral surgery"	Topic 28. Complications of endodontic treatment: <u>foreign bodies</u>		
	Topic 30. Surgical treatment of periodontal diseases		
Section 4. (module) "Implantology and reconstructive surgery of the oral cavity"	Topic 31. History of formation, current state and prospects of development of dental implantology. Possibilities of rehabilitation of patients with dental implants. Anatomical prerequisites of dental <u>implantation</u>		
	Topic 32. The phenomenon of osseointegration, factors depending on the optimization of this process. Indications and contraindications for the use of dental implants		
	Topic 33. Diagnosis and treatment planning of patients using dental implants. Features of various implantation systems. One-stage and two-stage approaches in the use of dental implants. Implantation in complex <u>clinical cases</u>		
	Topic 34. Modern ideas about osteoplastic materials. Their use in dental implantology and in reconstructive interventions in the oral cavity, tooth-preserving operations		
	Topic 35. Types of reconstructive interventions on the jaw bones and the technique of their implementation. Sinus lifting and subantral implantation options. Veneer and intercoronal osteotomy		
Section 4. (module)	Topic 36. The main		

"Implantology and reconstructive surgery of the oral cavity"	methods of directed tissue regeneration using membrane technology and titanium frameworks		
Section 4. (module) "Implantology and reconstructive surgery of the oral cavity"	Topic 37. Prosthetics on implants. General principles. Features of prosthetics using various implant systems. Features of prosthetics with a single- stage implantation technique. Features of prosthetics with a two- stage implantation technique		
	Topic 38. Prevention and treatment of complications of dental implantation. Professional oral hygiene when using dental implants		

4.2. Scope of the discipline and types of academic work

Forms of control and types of academic work		Labor intensity of the discipline (module)				
		5	6	7	8	total
1. Face-to-face work:		48,2	48,2	48	32,3	176,7
In-class learning in total, including:		48	48	48	32	176
Лекционные занятия (Лек)		16	16	16		
Лабораторные занятия (Лаб)		32	32	32	32	
Индивидуальная контактная работа (ИКР)		0,2	0,2		0,3	
2. Independent work of the student:		23,8	23,8	24	39,7	111,3
3. Intermediate certification (exam) (зачет, экзамен)			3а, Эк			
Total:	academic hours	72	72	72	108	324
	credit units	2	2	2	3	9

№ item	The section's (theme's) name	Face-to face work, including in the electronic information and educational environment, academic hours				IW, academic hours	Total, academic hours
		Lect.	Pr.	Lab.	ICW		
	Section 1."Organization of surgical dental care and examination in surgical dentistry" (from the module "Oral surgery")						
1	Topic 1. Introductory lesson. Goals and objectives of surgical dentistry. Its place among other disciplines. Medical documentation. Standards of medical care. Legal responsibility.						
2	Topic 2. Organization and equipment of a dental surgical office. Aseptics and antiseptics. Examination kit of a dentist-surgeon. Surgical instruments used in maxillofacial surgery and dentistry.						
3	Topic 3. Objective and additional examination of patients in surgical dentistry						
	Section 2. (module) "Local anesthesia and anesthesiology in dentistry"						
4	Topic 4. The purpose and objectives of anesthesia. Basic and additional methods of local anesthesia in outpatient dental practice						
5	Topic 5. Local anesthetics. Characteristics of drugs						

6	<p>Topic 6. Modern tools for local anesthesia in dentistry. A computerized and needle-free injector. Types of needles. Periodontal anesthesia methods (intraalveolar anesthesia, intraosseous, intrapulpal). Intraoral methods used for anesthesia of interventions on the upper jaw: infiltration anesthesia. Infraorbital, nasopalatine, posterior superior nerve blocks. The great palatine, pterygo-palatine nerve blocks.</p>						
7	<p>Topic 7. Intraoral methods of anesthesia used on the lower jaw. Infiltration anesthesia. Mandibular anesthesia, thorus. Methods of blockade of the inferior alveolar nerve according to P.M. Egorov; blockade of the inferior alveolar nerve according to Gow-Gates; blockade of the inferior alveolar nerve with limited mouth opening according to Vazirani-Akinozi; blockade of the mental nerve and incisor branch according to Malomed. Blockade of the buccal nerve. Indications and contraindications to their use.</p>						
8	<p>Topic 8. Extra-oral methods of anesthesia in MFA: blockade by Bershe-Egorov, anesthesia by Bershe-Dubov, anesthesia by Bershe-Dubov-Uvarov, anesthesia by Weisblat. Mandibular, tuberal, infraorbital, mental, incisor anesthesia with extra-oral access.</p>						

9	Topic 9. Errors and complications of local anesthesia in dentistry caused by a violation of the technique of its implementation. Complications of local anesthesia caused by the wrong choice of the drug. Features of anesthesia in patients at risk. Narcosis. Premedication.						
10	Topic 10. Intensive therapy for acute cardiovascular insufficiency, acute respiratory failure, allergic conditions, endocrine disorders, convulsive seizure						
11	Topic 11. Clinical death. Indications and contraindications, organizational aspects and features of cardiopulmonary resuscitation in the outpatient clinic.						
	Section 3. (module) "Oral surgery"						
12	Topic 12. Tooth extraction operation :indications and contraindications. Stages of the tooth extraction operation.						
13	Topic 13. Local complications that occur during tooth extraction surgery. Prevention and elimination of complications. Complications arising after tooth extraction. Early and late. Alveolitis. Prevention and methods of their elimination. Features of dental extraction surgery in patients at risk.						
14	Topic 14. Teething diseases. Retention and dystopia of teeth. Difficult eruption of the third lower molar. Clinic, diagnosis, differential diagnosis, treatment. Operculum.						

15	Topic 15. Odontogenic inflammatory diseases of the jaws. Classification, etiology, pathogenesis, pathological anatomy. Acute periodontitis. Etiology, pathogenesis, clinic, diagnosis, treatment.						
16	Topic 16. Chronic periodontitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment. Radicular cyst. Surgical methods of treatment of chronic periodontitis.						
17	Topic 17. Acute odontogenic periostitis: etiology, pathogenesis, pathological anatomy. Clinic, diagnosis, treatment.						
18	Topic 18. Odontogenic osteomyelitis: etiology, pathogenesis, pathological anatomy. Acute stage of odontogenic osteomyelitis: clinic, diagnosis, treatment. Differential diagnosis of acute periodontitis, periostitis and odontogenic osteomyelitis of the jaws.						
19	Topic 19. Subacute and chronic stages of odontogenic osteomyelitis of the jaws. Clinic, diagnosis, treatment.						
20	Topic 20. Odontogenic maxillary sinusitis. Etiology, pathogenesis. Classification. Clinic, diagnostics, differential diagnostics. Methods of surgical treatment. Perforation and fistula of the maxillary sinus. Reasons. Clinic, diagnostics. Methods of surgical closure of perforation of the bottom of the maxillary sinus						

21	Topic 21. Topographic anatomy of the lymphatic apparatus of the maxillofacial region. Lymphadenitis of the face and neck. Classification, etiology, pathogenesis. Clinic of acute lymphadenitis. Diagnostics, differential diagnostics. Treatment						
22	Topic 22. Furuncle, carbuncle of the face. Erysipelas. Classification, etiology, pathogenesis. Clinic. Diagnostics, differential diagnostics. Treatment						
23	Topic 23. Specific inflammatory diseases. Actinomycosis of the jaws, face and neck. Classification. Etiology and pathogenesis. Ways of infection penetration. Clinic, diagnostics, differential diagnosis and treatment methods						
24	Topic 24. Tuberculosis of the jaws, face and neck. Clinic, diagnosis, differential diagnosis, treatment. Diphtheria. AIDS. Manifestations in the maxillofacial region. Diagnostics, prevention of the spread. Syphilis. Manifestations in the oral cavity. Diagnosis and prevention						
25	Topic 25. Abscesses of the face and neck. Etiology, pathways of infection, pathogenesis. General clinical signs and treatment methods. Principles of intensive care						
26	Topic 26. Abscess of the pterygoid-mandibular space and the lingvo-mandibular space. Clinic, diagnosis, treatment.						
27	Topic 27. Abscess of the body of the tongue, the hard palate, the infraorbital area. Clinic, diagnosis, treatment						

28	Topic 28. Complications of endodontic treatment: foreign bodies						
29	Topic 30. Surgical treatment of periodontal diseases						
	Section 4. (module) "Implantology and reconstructive surgery of the oral cavity"						
30	Topic 31. History of formation, current state and prospects of development of dental implantology. Possibilities of rehabilitation of patients with dental implants. Anatomical prerequisites of dental implantation						
31	Topic 32. The phenomenon of osseointegration, factors depending on the optimization of this process. Indications and contraindications for the use of dental implants						
32	Topic 33. Diagnosis and treatment planning of patients using dental implants. Features of various implantation systems. One-stage and two-stage approaches in the use of dental implants. Implantation in complex clinical cases						
33	Topic 34. Modern ideas about osteoplastic materials. Their use in dental implantology and in reconstructive interventions in the oral cavity, tooth-preserving operations						
34	Topic 35. Types of reconstructive interventions on the jaw bones and the technique of their implementation. Sinus lifting and subantral implantation options. Veneer and intercortical osteotomy						
35	Topic 36. The main methods of directed tissue regeneration using membrane technology and titanium frameworks						

36	Topic 37. Prosthetics on implants. General principles. Features of prosthetics using various implant systems. Features of prosthetics with a single-stage implantation technique. Features of prosthetics with a two-stage implantation technique						
37	Topic 38. Prevention and treatment of complications of dental implantation. Professional oral hygiene when using dental implants						
Total academic hours							36

4.3. Summary of the discipline (module), structured by sections (topics)

5. Educational technologies

To implement the competence-based approach in the study of the discipline (module), extensive use of active and interactive methods of conducting classes in the educational process is provided:

Within the framework of the discipline, the following forms of classes and educational technologies are used:

lectures – an interactive form of classes can be used to present new material;

the use of multimedia tools (electronic whiteboards, projectors) – to improve the quality of perception of the studied material;

laboratory classes are for the development of clinical thinking and active search for ways and means of solving the affected problem (solving situational problems).

Problem lecture - involves the presentation of educational material in the form of problem situations and the involvement of listeners in a joint analysis and search for solutions. The problematic content of the lecture should be conveyed in a problematic form.

Lecture-visualization using computer technology. The lecture material is accompanied by slides demonstrated during the lecture.

Lecture-dialogue. The content of the lecture is presented through a series of questions that the listener must answer directly during the lecture.

A heuristic conversation is a certain set of questions that direct the thoughts and answers of students in the right direction. A heuristic conversation is considered successful if the questions were correctly posed and the students gave the correct answers.

Computer simulation is the use of computer programs to stimulate (demonstrate) a clinical case or a certain type of disease

A laboratory lesson is a form of educational and laboratory classes in which students discuss messages, reports and abstracts that they have completed based on the results of educational or scientific research under the guidance of a teacher. In this case, the teacher is the coordinator of discussions on the topic of the seminar, preparation for which is mandatory. Therefore, the topic of the seminar and the main sources of discussion are presented before the discussion for detailed acquaintance study

6. Forms of control and types of evaluation materials for the discipline (module)

Intermediate attestation - evaluation of intermediate and final results of training in the discipline (module).

6.1. Sample list of questions for the credit test

1. Premises of the surgical department (office) of the outpatient and inpatient hospitals and hygienic requirements for them.
2. Equipping the workplace of a dentist-surgeon.
3. Staff of the surgical department (office) of the dental clinic.
4. Surgical instruments in the dental clinic.
5. Equipment in the surgical department (office) of the dental clinic.
6. Medications in the surgical department (office) of the dental clinic.
7. Duties of a dental surgeon.
8. Duties of the nurse of the surgical department (office) of the dental clinic.
9. Levels of medical surgical dental care.
10. Ways of spreading infection in the surgical dental office and maxillofacial hospital.
11. Methods of hands hygiene of a dentist-surgeon.
12. Methods of preparing the surgical field on the face and in the oral cavity.
13. Features of aseptics and antiseptics in the provision of surgical dental care at home and in the field.
14. Measures to protect the medical staff of the surgical dental office from infection.
15. Methods of treatment of surgical dental instruments: disinfection, pre-sterilization cleaning, sterilization.
16. Methods of sterility control of instruments, dressings, doctor's hands and the operating field.
17. Storage of sterile instruments and materials in the surgical department of a dental clinic.
18. Cleaning and disinfection of the premises of the surgical department of the dental clinic, air disinfection.
19. Types of syringes used in surgical dentistry and their features.
20. The device of forceps for removing the anterior group of teeth on the upper jaw.
21. The device of forceps for removing premolars on the upper jaw.
22. The device of forceps for removing molars on the upper jaw.
23. The device of forceps for removing wisdom teeth on the upper jaw.
24. The device of universal forceps (bayonets) for the removal of teeth and tooth roots.
25. The device of elevators and chisels used to remove teeth and teeth roots on the upper jaw.
26. The device of forceps for removing the anterior group of teeth on the lower jaw.
27. The device of forceps for removing premolars on the lower jaw.
28. The device of forceps for removing molars on the lower jaw.
29. The device of forceps for removing wisdom teeth on the lower jaw.
30. The device of elevators and chisels used to remove teeth and roots on the lower jaw.
31. Methods of holding forceps for tooth extraction.
32. Survey of patients with pathology of the maxillofacial region.
33. General examination of the patient at a dental surgical appointment.
34. Examination of the maxillofacial area.
35. Examination of the oral cavity.
36. Palpation of tissues of the maxillofacial region and percussion of teeth.
37. Examination of sensory and motor function V and VII pairs of cranial nerves.
38. Examination of salivary glands.
39. Examination of the temporomandibular joint.
40. Examination of regional lymph nodes of the face and neck.
41. Determination of the nature and magnitude of defects and deformations of tissues of the organs of the face and oral cavity, the condition of surrounding tissues, assessment of

the degree of anatomical, functional and aesthetic disorders.

42. Objective additional research methods and their significance in the examination of patients with pathology of the maxillofacial region.

43. X-ray examination methods, an algorithm for describing X-ray images of the maxillofacial region.

44. Electrodontodiagnostics, thermodontodiagnostics.

45. Cytological examination method.

46. Biopsy of soft tissues of MFA.

47. Bacteriological method of examination.

48. Serological examination method.

49. Examination of victims with facial bone injury.

50. Goals and objectives of anesthesia in dentistry.

51. The mechanism of pain impulse transmission.

52. Mechanisms of blocking the transmission of pain irritation.

53. Classification of local anesthetics. Chemical structure of local anesthetics depending on group affiliation.

54. Requirements for local anesthetics.

55. Indications and contraindications to the use of local anesthetics, depending on the group affiliation.

56. Methods of application and doses of local anesthetics.

57. Characteristics and principle of action of vasoconstrictors, categories of vasoconstrictors.

58. Types of syringes for local anesthesia and under what anesthesia they are used for.

59. Rules of local anesthesia.

60. Methods, indications and contraindications for periodontal methods of anesthesia.

61. Methods, indications and contraindications for application methods of anesthesia.

62. Methods, indications and contraindications for infiltration anesthesia.

63. Methods, indications and contraindications for posterior superior nerve block.

64. Methods, indications and contraindications to the out-of-mouth method of anesthesia according to Egorov on the upper jaws.

65. Methods, indications and contraindications to the intraoral method of infraorbital anesthesia.

66. Methods, indications and contraindications for the extraoral method of infraorbital anesthesia.

67. Methods, indications and contraindications to the intraoral method of naso-palatine nerve block.

68. Methods, indications and contraindications to the extraoral method of naso-palatine nerve block.

69. Methods, indications and contraindications for the great palatine nerve block.

70. Methods, indications and contraindications to the extraoral method of anesthesia according to Egorov on the lower jaw.

71. Methods, indications and contraindications to the intraoral method of anesthesia according to Egorov on the lower jaw.

72. Methods, indications and contraindications to the extraoral anesthesia method according to Weissblatt.

73. Methods, indications and contraindications to the extraoral method of anesthesia according to Dubov.

74. Methods, indications and contraindications to the extraoral method of anesthesia according to Bershe-Egorov on the lower jaw.

75. Methods, indications and contraindications to the intraoral method of anesthesia according to Malomed (mental).

76. Methods, indications and contraindications to the extraoral anesthesia method according to Malomed (mental).
77. Methods, indications and contraindications for mandibular anesthesia according to Brown.
78. Methods, indications and contraindications for "thorus" anesthesia.
79. Methods, indications and contraindications for anesthesia according to Gow-Gates.
80. Methods, indications and contraindications for anesthesia according to Vazirani-Akinozi.
81. Local complications during intraoral methods of anesthesia (clinic, diagnosis, treatment).
82. Local complications during extraoral methods of anesthesia (clinic, diagnosis, treatment).
83. Features of local anesthesia in the elderly, pregnant women and patients with chronic diseases.
84. Possible errors and complications in dental patients with concomitant diseases, the elderly and pregnant women, emergency measures.
85. General anesthesia. Advantages and disadvantages.
86. Features of general anesthesia during surgery in maxillofacial area.
87. Features of general anesthesia during operations in the oral cavity.
88. Indications for general anesthesia in the MFA hospital department.
89. Preparation of the patient for general anesthesia.
90. Observation of the patient after general anesthesia.
91. Causes, clinic, management and prevention of fainting in patients in the surgical office of a dental clinic.
92. Causes and clinic of drug intoxication after local anesthesia in the maxillofacial region; management, prevention.
93. Causes and clinic of allergic reaction in the form of allergic dermatitis in patients after local anesthesia; management, prevention.
94. Causes and clinic of allergic reaction in the form of Quincke's edema in patients after local anesthesia; management, prevention.
95. Causes and clinic of anaphylactic shock in patients after local anesthesia; management, prevention.
96. Causes and clinic of hypertensive crisis in patients after local anesthesia; in the maxillofacial region, management, prevention.
97. Causes and clinic of acute circulatory disorders after local anesthesia; management, prevention.
98. Principles of cardiopulmonary resuscitation, its stages.
99. Causes, clinic of myocardial infarction in patients after local anesthesia in the maxillofacial region, management, prevention.
100. Sets of medications for emergency care in a surgical dental office.
101. What and how do terminal conditions manifest themselves - agony and clinical death?
102. Characteristics of biological death.
103. Characteristics of cardiac arrest.
104. Characteristics of respiratory arrest.
105. Characteristics of clinical death.
106. With the help of what devices, the simplest devices, can lung ventilation be carried out?
107. What are the indications for tracheal intubation during resuscitation?
108. What is defibrillation? How is it conducted?
109. What are the signs of the effectiveness of resuscitation measures?

110. What complications can be associated with resuscitation measures? Their prevention and treatment.
 111. Features of facial operations.
 112. Features of operations in the oral cavity.
 113. General indications for tooth extraction.
 114. Local indications for tooth extraction.
 115. General contraindications for tooth extraction.
 116. Local contraindications to tooth extraction.
 117. Tooth extraction operation, stages, tools.
 118. Root removal operation, stages, tools.
 119. Wound healing after tooth extraction.
 120. The position of the doctor and the patient when removing individual groups of teeth and roots on the upper jaws.
 121. The position of the doctor and the patient when removing individual groups of teeth and roots on the lower jaw.
 122. Method of removing the anterior group of teeth of the upper jaw with forceps.
 123. Method of removing canines on the upper jaw with forceps
 124. The technique of removing the premolars of the upper jaw with forceps.
 125. The technique of removing the molars of the upper jaw with forceps.
 126. The method of removing individual groups of teeth and the roots of the teeth of the upper jaw using an elevator, chisel, drill.
 127. Method of removing incisors on the lower jaw with forceps.
 128. Method of removing canines on the lower jaw with forceps.
 129. Method of removing premolars on the lower jaw with forceps.
 130. Method of removing molars on the lower jaw with forceps.
 131. The technique of removing individual groups of teeth on the lower jaw using elevators, chisels, drills.
 132. The technique of removing the roots on the lower jaw with the help of elevators, chisels, drills.
 133. Indications for atypical removal of teeth and roots.
 134. Methods of atypical removal of dystopian teeth in the upper jaw.
 135. The technique of atypical removal of retentive teeth in the upper jaw.
 136. The technique of atypical removal of dystopian teeth on the lower jaw.
 137. Methods of atypical removal.
 138. Management of a postoperative wound in a patient after a complex extraction of a tooth or its root.
 139. Local complications and their causes that occur during tooth extraction.
 140. Tactics of the doctor in case of fracture of the tooth being removed or its root; fracture or dislocation of the adjacent tooth.
 141. Tactics of the doctor during perforation and pushing the root into the maxillary sinus.
 142. Methods of bleeding arrest from the alveolar socket during tooth extraction; possible causes.
 143. Causes of local complications that occur after tooth extraction.
 144. Prevention of local complications arising after tooth extraction.
 145. Clinic and treatment of alveolitis.
 146. Neurological disorders after tooth extraction, their treatment and prevention.
 147. Primary bleeding from the alveolar socket. Causes, treatment, prevention.
 148. Secondary bleeding from the alveolar socket. Causes, treatment, prevention.
 149. Preparation of patients with blood diseases (hemophilia, hemorrhagic diathesis, systemic diseases) for tooth extraction surgery.
 150. Preparation of patients with immunodeficiency for tooth extraction.

151. Features of tooth extraction in patients with diabetes mellitus.
 152. Tooth extraction in patients with severe cardiovascular pathology.
 153. Tooth extraction in patients with combined traumatic brain injury.
 154. Tooth extraction in oncostomatological patients whose treatment plan provides for remote gamma therapy.
 155. Dystopia of teeth. Causes of occurrence.
 156. Clinical manifestations and diagnosis of dental dystopia.
 157. Indications and contraindications for tooth extraction in its dystopia.
 158. Retention, inclusion, impact of teeth. Causes of occurrence.
 159. Clinical manifestation and diagnosis of dental retention.
 160. Indications and contraindications for surgical treatment of dental retention.
 161. X-ray diagnostics in diseases of teething.
 162. Etiology and pathogenesis of obstructed eruption of the third lower molar.
 163. Methods of removal and other methods of treatment for obstructed eruption of the lower third molar.
 164. Clinical features, diagnosis, treatment of pericoronitis.
 165. Classification of periodontitis.
 166. Clinic, diagnosis, treatment of acute periodontitis
 167. Differential diagnosis of various forms of periodontitis.
 168. Classification of chronic periodontitis.
 169. Clinic, diagnosis, treatment of chronic forms of periodontitis.
 170. Clinic, diagnosis, treatment of exacerbation of chronic forms of periodontitis.
 171. Indications for surgical treatment of chronic periodontitis.
 172. Contraindications to surgical treatment of chronic periodontitis.
 173. Indications for surgical treatment of exacerbation of chronic periodontitis.
 174. Clinic, diagnosis of radicular cyst.
 175. Indications for the operation of apicectomy of the tooth and its methodology.
 176. Indications for hemisection surgery and its methodology.
 177. Indications for root amputation surgery and its methodology.
 178. Indications and methods of operation cystotomy, cystectomy, cystotomy.
 179. Complications arising after the operation of the apicectomy and its methodology.
 180. Complications arising after hemisection surgery and its methodology.
 186. Basic principles of surgical treatment of acute odontogenic periostitis of the jaws.
 187. Basic principles of conservative treatment of acute odontogenic periostitis.
 188. Complications of acute odontogenic periostitis of the jaws.
 189. Etiology and pathogenesis of odontogenic osteomyelitis of the jaws.
 190. Clinic, diagnosis, treatment of acute odontogenic osteomyelitis of the jaws.
 191. Clinic, diagnosis, treatment of subacute odontogenic osteomyelitis of the jaws.
 192. Clinic, diagnosis, treatment of chronic odontogenic osteomyelitis of the jaws.
 - 193.
 194. Methods used in the diagnosis of odontogenic osteomyelitis.
 195. Basic principles of surgical treatment of acute odontogenic osteomyelitis of the jaws.
 196. Basic principles of conservative treatment of acute odontogenic osteomyelitis.
 197. Basic principles of surgical treatment of subacute odontogenic osteomyelitis of the jaws.
 198. Basic principles of conservative treatment of subacute odontogenic osteomyelitis.
 199. Basic principles of surgical treatment of chronic odontogenic osteomyelitis of the jaws.
 200. Basic principles of conservative treatment of chronic odontogenic osteomyelitis.

201. Complications of odontogenic osteomyelitis of the jaws.

202. Radiological picture of odontogenic osteomyelitis of the jaws.

Nosological units for situational tasks:

1. Complications of local anesthesia in dentistry caused by a violation of the technique of its implementation

- during infiltration anesthesia on the upper jaw
- during infiltration anesthesia on the lower jaw
- during tuberal anesthesia
- during palatinal anesthesia
- during incisor anesthesia
- during the infraorbital anesthesia
- during the thorus anesthesia, Gow-Gates
- during mandibular anesthesia
- during mental anesthesia
- during anesthesia by Berche
- during anesthesia at foramen ovale
- during anesthesia at foramen rotundum

2. General complications of local anesthesia

- drug intoxication
- allergic reaction in the form of allergic dermatitis
- allergic reaction in the form of Quincke's edema
- anaphylactic shock
- hypertensive crisis
- acute cerebrovascular accident

3. Features of anesthesia in the elderly, patients with chronic diseases and during pregnancy

4. Indications and contraindications to tooth extraction

5. Local complications arising during tooth extraction surgery

- fracture of the crown or root of the tooth being reextracted
- fracture or dislocation of an adjacent tooth
- pushing the root into soft tissues
- damage of the gums and soft tissues of the oral cavity
- fracture of the section of the alveolar process
- dislocation of the lower jaw
- fracture of the lower jaw
- opening of the bottom of the maxillary sinus (oro-antral anastomosis)
- pushing the tooth root into the maxillary sinus
- damage to the mandibular nerve

6. Complications arising after tooth extraction

- limited osteomyelitis of the alveolar socket
- postoperative pain in the alveolar socket
- neuropathy of the inferior alveolar nerve
- alveolar socket bleeding (primary, secondary)
- subcutaneous emphysema
- sharp edge of the alveoli
- exposure of the edge of the alveoli
- periodontitis of adjacent teeth

7. Eruption cyst

8. Retention, inclusion of teeth

9. Dystopia of teeth

10. Acute periodontitis

11. Chronic periodontitis

12. Radicular cyst

13. Migrating granuloma
14. Foreign body of periodontal tissues
15. Acute odontogenic periostitis of the jaw
16. Chronic odontogenic periostitis of the jaw
17. Chronic osteomyelitis of the jaw
18. Odontogenic maxillary sinusitis
19. Lymphadenitis of the face and neck, adenophlegmon
20. Furuncle of the face
21. Carbuncle of the face
22. Erysipelas
23. Actinomycosis of the maxillofacial region
24. Tuberculosis of the maxillofacial region
25. Maxillofacial syphilis
26. Anthrax of the maxillofacial region
27. Manifestations of HIV in the oral cavity
28. Abscess of the pterygo-mandibular space
29. Abscess of the lingva-mandibular groove
30. Abscess of the tongue body
31. Abscess of the infraorbital area
32. Abscess of the hard palate
33. Indications and contraindications for dental implantation
34. Early complications of dental implantation
35. Late complications of dental implantation
36. Surgical treatment of periodontal diseases

6.2. Sample list of questions for the examination

List of manual skills for the exam:

1. Dentist's surgeon's hands hygiene
2. External examination of the maxillofacial area
3. Anthropometry of the face
4. Palpation of the submandibular area
5. Palpation of the bottom of the oral cavity
6. Palpation of the soft tissues of the neck
7. External palpation of the facial skull
8. Palpation of the vestibule of the oral cavity
9. Palpation of the alveolar process
10. Objective examination of the parotid salivary gland
11. Objective examination of the submandibular salivary gland
12. Manual examination of the masticatory muscles
13. Objective examination of the lymph nodes of the face and neck
14. Palpation of the temporomandibular joint
15. Probing of the gingival groove and dentoalveolar pockets
16. Probing of the carious cavity
17. Tooth percussion
18. Determination of the degree of mobility of the tooth
19. Collection of material for cytological examination
20. Sampling of material for bacteriological examination
21. Diagnostic puncture of the formation
22. Puncture of the maxillary sinus
23. Endonasal examination
24. Infiltration anesthesia of soft tissues
25. Infiltration anesthesia for tooth extraction

26. Application anesthesia in the oral cavity
 27. Intraalveolar anesthesia
 28. Intraosseous anesthesia
 29. Intrapulpal anesthesia
 30. Infraorbital extraoral anesthesia
 31. Infraorbital intraoral anesthesia
 32. Nasopalatine nerve block
 33. The great palatine nerve block
 34. Posterior superior nerve block
 35. Anesthesia at the foramen rotundum
 36. Anesthesia at the foramen ovale
 37. Anesthesia by Berche
 38. Berche – Dubov anesthesia
 39. Mandibular intraoral anesthesia
 40. Mandibular extraoral anesthesia
 41. Anesthesia of the buccal nerve
 42. Anesthesia of the lingual nerve
 43. Thorus anesthesia
 44. Preparation of the oral cavity for tooth extraction
 45. Extraction of incisors and canines of the upper jaw
 46. Extraction of premolars of the upper jaw
 47. Extraction of 1 molar of the upper jaw
 48. Extraction of 2 molars of the upper jaw
 49. Extraction of 3 molars of the upper jaw
 50. Extraction of the incisors of the lower jaw
 51. Extraction of canines of the lower jaw
 52. Extraction of premolars of the lower jaw
 53. Extraction of 1 or 2 molars of the mandible
 54. Typical extraction of the lower wisdom tooth
 55. Tooth root extraction
 56. Extraction of the retained canine of the upper jaw
 57. Extraction of the retained lower wisdom tooth
 58. Treatment of the alveolar socket with alveolitis
 59. Bleeding arrest from the alveolar socket
 60. Bleeding arrest from a wound in the oral cavity
 61. Closure of the oro-antral junction using a tampon
 62. Plastic surgery of the oro-antral anastomosis
 63. Opening and drainage of a subperiosteal abscess from the vestibular side of the alveolar process of the jaw
 64. Opening and drainage of a subperiosteal abscess in the area of the hard palate
 65. Opening and drainage of the abscess of the mandibula-lingual groove
 66. Intraoral autopsy and drainage of the pterygo-mandibular abscess
 67. Opening and drainage of the abscess of the tongue body
 68. Autopsy and drainage of an abscess of the infraorbital space
 69. Opening of the abscess of the hard palate
 70. Pericoronectomy in the area of the lower wisdom tooth
 71. Pericoronectomy in the area of the retained canine of the upper jaw
 72. Dressing of a purulent wound in the oral cavity
 73. Applying a pressure bandage to the upper lip area
 74. Applying a pressure bandage to the lower lip area
 75. Operation of apicectomy of the tooth
 76. Operation of tooth hemisection

77. Operation of tooth root amputation

78. Tooth replantation surgery

79. Opening of the boil of the infraorbital area

80. Opening of the upper lip boil

81. Opening of the furuncle of the lower lip

82. Opening of the parotid-masticatory furuncle

83. Opening of the boil of the buccal region

84. Opening of the boil of the submandibular area

85. Opening of the boil of the submental area

86. Opening of the boil of the anterolateral surface of the neck

87. Opening of the furuncle of the frontal area

88. Opening of the furuncle of the nasolabial fold

89. Determination of the biotype (biological width) of the gum

90. Determination of the width of the alveolar edge for the installation of a dental implant

91. Determination of bone density by Misch with quantitative characteristics on the

Hounsfield scale

92. Preliminary determination of the place of placement of the dental implant by models

93. Increase in the biological thickness of the attached gum in the marginal barrier area

94. Increasing the width of the attached gum

95. Preparation of osteosamplative material for the plastic defect of the alveolar process

95. Professional oral hygiene when using dental implants.

6.3. Suggested themes of term papers (projects)

term papers are not provided

6.4. Suggested themes of term projects

term papers are not provided

6.5. Suggested topics of calculation and graphic works

1. Examination of a patient with maxillofacial pathology. Infiltration anesthesia during surgical intervention in the maxillofacial region.

2. Examination of a patient with maxillofacial pathology. Infraorbital nerve block.

3. Examination of a patient with maxillofacial pathology. Superior posterior nerve block.

4. Examination of a patient with maxillofacial pathology. The great palatine nerve block.

5. Examination of a patient with maxillofacial pathology. Nasopalatine nerve block.

6. Examination of a patient with maxillofacial pathology. Mandibular nerve block (extraoral methods).

7. Examination of a patient with maxillofacial pathology. Mandibular nerve block (intraoral methods).

8. Examination of a patient with maxillofacial pathology. Thorusal anesthesia.

9. Buccal and lingual nerve blocks: indications, analgesia zone, methods of conducting, possible local complications, their prevention and treatment.

10. Examination of a patient with maxillofacial pathology. Mental nerve block.

11. Examination of a patient with maxillofacial pathology. Anesthesia according to the methods of Berche, Berche-Dubov.

12. Examination of a patient with maxillofacial pathology. Anesthesia of the second branch of the trigeminal nerve in the pterygoid fossa.

13. Examination of a patient with maxillofacial pathology. Anesthesia of the third

branch of the trigeminal nerve at the foramen ovale.

7. Educational, methodological, informational and software support of the discipline (module)

The electronic catalog and electronic information resources provided by the scientific library of the FSBEI of HE "I. N. Ulianov Chuvash State University" are available at the link <http://library.chuvsu.ru/>

7.1. Regulatory documents, standards and rules

1. Конституция Российской Федерации: [принята всенародным голосованием 12 декабря 1993 года]:[с учётом поправок от 30 декабря 2008 года, от 05 февраля 2014 года, от 21 июля 2014 года]. - URL: http://www.consultant.ru/document/cons_doc_LAW_28399/ (дата обращения: 29.08.2019). - Текст: электронный.

2. Государственная программа Российской Федерации «Развитие здравоохранения», утвержденная Постановлением Правительства РФ № 294 от 15.04.2014 г.- URL: http://www.consultant.ru/document/cons_doc_LAW_28399/ дата обращения: 29.08.2019). - Текст: электронный.

3. Об основах охраны здоровья граждан в Российской Федерации : Федеральный Закон от 21.11.2011 №323 - ФЗ : [Принят Государственной Думой 1 ноября 2011 года : Одобрен Советом Федерации 9 ноября 2011 года] : [редакция от 21 ноября 2011 года]. - URL: http://www.consultant.ru/document/cons_doc_LAW_121895/ дата обращения: 29.08.2019). - Текст: электронный.

4. Об обязательном медицинском страховании в Российской Федерации : Федеральный Закон от 29.11.2010 N 326-ФЗ: [Принят Государственной Думой 19 ноября 2010 года : Одобрен Советом Федерации 24 ноября 2010 года] : [редакция от 29 ноября 2010 года]. - URL: http://www.consultant.ru/document/cons_doc_LAW_107289/ дата обращения: 29.08.2019). - Текст: электронный.

5. Об обращении лекарственных средств : Федеральный закон от 12 апреля 2010 г. N 61-ФЗ : [Принят Государственной Думой 24 марта 2010 года : Одобрен Советом Федерации 31 марта 2010 года] : [редакция от 12 апреля 2010 года]. - URL : http://www.consultant.ru/document/cons_doc_LAW_99350/ дата обращения: 29.08.2019. - Текст: электронный.

6. Об утверждении унифицированных форм медицинской документации, используемых в медицинских организациях, оказывающих медицинскую помощь в амбулаторных условиях, и порядков их заполнения : Приказ Минздрава России от 15.12.2014 N 834н (ред. от 09.01.2018) (Зарегистрировано в Минюсте России 20 февраля 2015 г. N 36160). - URL : http://www.consultant.ru/document/cons_doc_LAW_175963/ дата обращения: 29.08.2019. - Текст: электронный.

7. Приказ 786н от 31 июля 2020 года «Об утверждении Порядка оказания медицинской помощи взрослому населению при стоматологических заболеваниях»

8. Приказ № 806н от 4 августа 2020 года «О внесении изменений в сроки и этапы аккредитации специалистов, а также категории лиц, имеющих медицинское, фармацевтическое или иное образование и подлежащих аккредитации специалистов, утвержденные приказом Министерства здравоохранения РФ от 22 декабря 2017 г. № 1043н»

9. Приказ Минздрава № 890н от 24.08.2020 «О признании утратившим силу пункта 2 приказа Министерства здравоохранения Российской Федерации от 14 апреля 2020 г. № 327н «Об особенностях допуска физических лиц к осуществлению медицинской деятельности и (или) фармацевтической деятельности без сертификата специалиста или свидетельства об аккредитации специалиста и (или) по

специальностям, не предусмотренным сертификатом специалиста или свидетельством об аккредитации специалиста»

10. Приказ № 984 от 12 августа 2020 г. «Об утверждении образовательного стандарта высшего образования - специалитет по специальности 31.05.03 Стоматология»

11. Постановление Главного государственного санитарного врача № 15 от 22 мая 2020 года Постановление «Об утверждении санитарно-эпидемиологических правил «Профилактика новой коронавирусной инфекции (COVID-19)»

7.2. Recommended basic educational and methodological literature

№ item	Name
1	

7.3. Recommended supplementary educational and methodological literature

№ item	Name
1	

7.4. List of resources of the "Internet" information and telecommunication network

№ item	Name	Link to the resource
1	Daurova, F. Yu. Essentials of Operative Dentistry / Daurova F. Yu. , Makeeva M. K. , Khabadze Z. S. et al. - Москва : ГЭОТАР-Медиа, 2019. - 512 с.	https://www.studentlibrary.ru/book/ISBN9785970451335.html

7.5. Software, professional databases, information and reference systems, electronic educational resources and electronic library systems

Software, professional databases, information and reference systems provided by the Informatization Department of the FSBEI of HE "I.N. Ulianov Chuvash State University" are available for download at the link <http://ui.chvsu.ru/>. The Unified Register of Russian programs for electronic computers and databases, including freely distributed ones, is available at the link reestr.minsvyaz.ru/reestr/.

7.5.1. Licensed and freely distributed software

Microsoft Windows operating System and/or Unix-like operating system and/or mobile operating system;

Office software packages:

Microsoft Office and/or LibreOffice

and (or) OpenOffice and (or) analogues;

Browsers, including Yandex.Browser.

List of software:

AST-Test Player Free (v 4.6.2)
 OpenOffice 3.3.0
 File archiver 7-Zip
 Far Manager v2.0 or v1.75
 Browsers (Google Chrome, Firefox, Opera)

7.5.2. Lists of professional databases and (or) information reference systems and (or) electronic library systems and (or) electronic educational resources

Electronic library system «Lan Publishing House»
 Electronic library system IPRbooks
 Legal reference system «Consultant Plus»
 Consultant of a Student. Student Electronic Library
 Legal search system «Garant»

8. Material and technical support of the discipline

Classrooms for lecture-type classes in the discipline are equipped with a teacher's automated workplace consisting of: a personal computer/laptop, multimedia equipment with a screen and (or) SMART interactive whiteboard/SMART TV.

The premises for students' independent work are equipped with computer equipment enabling to connect to the Internet and provide access to the electronic information and educational environment of the FSBEI of HE "I.N. Ulianov Chuvash State University".

№ item	Lesson type	Brief description and characteristics of the composition of installations, measuring and diagnostic equipment, computer equipment and experimental automation tools
1		<p>Центр аккредитации и симуляционного обучения Оборудование: набор из двух фантомов: фантом катетеризации пузыря у мужчин и женщин. Фантом таза мужчины многофункциональный. Видеотренажер лапароскопический с набором для отработки навыков. Муляж ткани для прошивания красный. Муляж толстой кишки двуслойный. Набор муляжей тканей кожи (10 шт в уп.). Тренажер для отработки базовых хирургических навыков с аксессуарами. Фантом для отработки десмургии. Фантом для отработки процедуры катетеризации центральных вен. Фантом руки и ноги для отработки хирургического шва. Муляж ткани для отработки подкожного шва. Манекен для отработки навыков сердечно-легочной реанимации. Теле-ментор, высокотехнологичный передвижной аппаратно-программный комплекс для симуляционного обучения в медицине. Фантом для внутримышечных инъекций. Фантом руки для отработки внутривенных, внутримышечных и подкожных инъекций. Фантом руки для подкожных инъекций. ВиртуШОК, торс для СЛР, расширенная комплектация с ЭКГ и АНД. Торс для отработки навыков проведения СЛР и вентиляции, Кевин. Столы, стулья, кушетки, расходный материал (шприцы, симуляторы растворов, средства дезинфекции), ноутбуки с переговорными устройствами, встроенные столы, пеленальные столы, медицинские шкафы, учебные пособия и т. д.</p>

9. Means of adapting the discipline teaching to the needs of persons with physical conditions

If necessary, persons with physical conditions can be offered one of the following options for perceiving information, taking into account their individual psychophysical characteristics:

- 1) using e-learning and distance learning technologies.
- 2) using special equipment (enginery) and software in accordance with the students' health restrictions in the Training Centers for Persons with Disabilities and Physical Conditions (hereinafter referred to as special needs) available at the university.

In the course of training, if necessary, the following conditions are provided for persons with visual, hearing and musculoskeletal disorders:

- for persons with visual impairments: educational and methodological materials in printed form in enlarged font; in the form of an electronic document; in the form of an audio file (conversion of educational materials into audio format); in printed form in Braille; individual consultations involving a tactile interpreter; individual assignments and consultations.

- for people with hearing impairments: educational and methodological materials in printed form; in the form of an electronic document; video materials with subtitles; individual consultations involving a sign language interpreter; individual assignments and consultations.

- for persons with disorders of the musculoskeletal system: educational and methodological materials in printed form; in the form of an electronic document; in the form of an audio file; individual assignments and consultations.

10. Guidelines for students to perform independent work

The purpose of the student's independent work (IW) is to consolidate the theoretical knowledge gained and to acquire practical skills in using and performing research of algorithms and data structures when designing application software programs. IW includes independent study of educational issues, preparation for laboratory classes, performing calculation and graphic work, preparation for a test and an exam.

The list of questions and tasks for independent work to prepare for laboratory classes is given in the corresponding methodological instructive regulations in the description of each laboratory work.

The list of questions and tasks for independent work to carry out calculation and graphic work is given in the relevant methodological instructive regulations.

Methodological recommendations for the independent study of educational issues.

Topics submitted for independent study should be outlined. It is advisable to make a summary entirely on the topic. At the same time, it is always possible to supplement the compiled summary from journals, articles, new textbooks, brochures on the exchange of experience, data from the Internet and other sources. Thus, the summary becomes a collection of necessary materials, where the student introduces everything new that he has studied, learned. Such notes are of great value when preparing for classes.

11. Methodological instructive regulations for students studying the discipline (module)

11.1. Methodological instructive regulations for preparing for seminar-type classes

11.2. Methodological instructive regulations for preparing for an examination

11.3. Methodological instructive regulations for preparing for a test

11.4. Methodological instructive regulations for performing computational and graphical

11.5. Methodological instructive regulations for performing a control work

11.6. Methodological instructive regulations for performing a course work (project)

List of additions and changes

The name and details (if any) of the document attached to the Working Program of the discipline (module) containing the text of updates	Department's decision		Full name of department head:
	Date	Protocol №	