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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

Orthopedic Dentistry and Orthodontics Department

«APPROVE»

Vice-rector for Academic Affairs


I.E. Poverinov

« 13 » 04 2022

**Working programs of the discipline (module)
«Ортопедическая стоматология / Orthopaedic 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 – 4, 5

Term – 8, 9, 10

Total academic hours/credit points – 360/10

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:

Head of the department, Doctor of Medical Sciences Yu.N. Urukov

Associate Professor, Candidate of Medical Sciences N.S. Fedorova

The working program was approved at the meeting of the Orthopedic Dentistry and
Orthodontics Department,

25.03.2022, protocol № 17

Head of the department Yu.N. Urukov

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 - Formation of full-time students of scientific knowledge about the etiology, pathogenesis, clinical course and principles of orthopedic dental rehabilitation of patients with acquired defects, injuries, deformities and functional disorders of the dentoalveolar system. Training of specialists with the basics of clinical thinking, able to conduct an examination, make and substantiate a diagnosis, draw up a plan for the comprehensive treatment of dental patients. Training of specialists with manual skills necessary for orthopedic treatment of dental patients.

The objectives of the discipline - Mastering and filling out medical documentation (outpatient card, work order, record sheet for the work of an orthopedic dentist).

Mastering methods for diagnosing damage and anomalies in the development of the dentoalveolar system.

Pretreatment training.

Development of observation, the ability to logically comprehend what was heard, seen, identified, studied, in order to link it into a single process, to substantiate the plan of orthopedic treatment and tactics of patient management.

The choice of methods of prosthetics, taking into account clinical features, general somatic and age characteristics of the body.

Acquisition of manual skills in the design and strengthening of dentures in such a way as not only to restore the proportions of the face, but also to ensure their functional synchrony with the organs and tissues of the dentoalveolar system.

Mastering methods for preventing the occurrence of defects in the dentoalveolar system.

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

The discipline «Ортопедическая стоматология / Orthopaedic 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):

Ортодонтия и детское протезирование / Orthodontia and Pediatric Prosthetics

Хирургическая стоматология / Surgical Dentistry

Внутренние болезни / Internal Diseases

Лучевая диагностика / Diagnostic Radiology

Материаловедение в ортопедической практике / Materials Science in Orthopedic Practice

Общая хирургия / General Surgery

Основы материаловедения в стоматологии / Fundamentals of Materials Science in Dentistry

Фармакология / Pharmacology

Пропаедевтическая стоматология / Propaedeutic Dentistry

Анатомия / Anatomy

Гистология, эмбриология, цитология / Histology, Embryology, Cytology

Социальная адаптация лиц с ОВЗ / Social Adaptation of Persons with Health Limitations

Фтизиатрия / Phthisiology

Акушерство и гинекология / Obstetrics and Gynecology

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:

Детская стоматология / Pediatric Dentistry

Производственная практика (практика по получению профессиональных умений и опыта профессиональной деятельности (по ортопедической стоматологии)) / On-the- job training (practical training in obtaining professional skills and professional experience (in orthopedic dentistry))

Производственная практика (практика по получению профессиональных умений и опыта профессиональной деятельности (по терапевтической стоматологии)) / On-the- job training (practical training in obtaining professional skills and professional experience (in therapeutic dentistry))

Терапевтическая стоматология / Therapeutic Dentistry

Челюстно-лицевая хирургия / Maxillofacial Surgery

Производственная практика (практика по получению профессиональных умений и опыта профессиональной деятельности (по детской стоматологии)) / On-the-job training (practical training for obtaining professional skills and professional experience (in pediatric dentistry))

Гнатология в ортодонтии / Gnathology in Orthodontics

Дентальная имплантация в стоматологии / Dental Implantation in Dentistry

Подготовка к сдаче и сдача государственного экзамена / Preparation for passing and passing the state exam

Производственная практика (научно-исследовательская работа) / On-the-job training (research work)

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) |
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| 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 | Know: 1. Analyze the quality of medical care; 2. Analyze indicators of morbidity, disability and mortality of the population of the served territory; 3. Fill in medical records and control the quality of medical records; 4. Draw up the documentation necessary for the medical and social examination; 5. Work in information and analytical systems (Unified State Health Information System); 6. Draw up a work plan and report on your work; 7. Analyze the quality and |

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| | | <p>efficiency of medical records;</p> <p>8. Arrange hospitalization for inpatient treatment;</p> <p>Be able to:</p> <ol style="list-style-type: none">1. Rules for issuing documents certifying temporary disability;2. Rules for issuing documents certifying temporary disability;3. Principles of conducting an examination of temporary disability4. Job responsibilities of medical workers in medical; organizations;5. Criteria for assessing the quality of medical care;6. Features of maintaining medical records;7. General issues of organization of medical care to the population;8. Standards and quality management systems for medical (dental) services;9. Legislation of the Russian Federation in the field of health protection and regulatory legal acts that determine the activities of medical organizations; <p>Own:</p> <ol style="list-style-type: none">1. Providing medical and statistical indicators in the prescribed manner;2. Maintaining medical records;3. Monitoring the fulfillment by medical workers holding the positions of middle and junior medical personnel of medical appointments;4. Control (assessment) of the quality of medical care;5. Examination of temporary disability of patients, disability to care for a sick child, determination of medical indications for employment, transfer to easier working conditions, sanatorium treatment;6. Management of medical workers holding positions of middle and junior medical personnel;7. Drawing up a work plan and a |
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| | | report on their work; 8. Analysis of the main medical and statistical indicators (morbidity, disability, mortality, mortality) of the population of the served territory; |
| 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 | Know: 1. Develop a rehabilitation plan for patients with diseases of the maxillofacial region; Be able to: 1. Medical indications and contraindications for rehabilitation measures for various diseases and pathological conditions; 2. Basic principles of rehabilitation of patients with infectious diseases; 3. Basic principles of rehabilitation of patients with diseases of the maxillofacial region; 4. Principles of device and rules for the operation of medical devices in the category "Dental equipment"; 5. Requirements for labor protection, fire safety, emergency procedures; 6. Sanitary and epidemiological norms and requirements; 7. Rules for the use of personal protective equipment; Own: 1. Drawing up an individual rehabilitation plan for a patient with diseases of the maxillofacial region; 2. Monitoring the progress of the patient's rehabilitation; 3. Selection of drugs for rehabilitation; 4. Providing qualified medical care in their specialty using modern rehabilitation methods approved for use in medical practice; |
| ОПК-2 Способен анализировать результаты собственной деятельности для предотвращения | ОПК-2.3 Способен проводить и контролировать эффективность | Know: 1. Principles of dispensary observation in various categories of patients and among the |

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| <p>профессиональных ошибок / He/she is able to analyze the results of his/her own activities to prevent professional errors</p> | <p>мероприятий по профилактике осложнений медицинских вмешательств / He/she is able to conduct and monitor the effectiveness of measures to prevent complications of medical interventions</p> | <p>population; 2. Features of specific and non-specific prevention of infectious diseases; 3. Features of the prevention of oncopathology; 4. Etiology, pathogenesis, prevention of common diseases 5. maxillofacial area; 6. Methods for the prevention of dental and facial anomalies in children and adults; 7. Clinical picture, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their prevention; 8. Fundamentals of preventive medicine aimed at improving the health of the population; 9. Requirements for labor protection, fire safety, emergency procedures; 10. Sanitary and epidemiological norms and requirements; 11. Rules for the use of personal protective equipment; Be able to: 1. Conduct preventive examinations of various categories of citizens; 2. To carry out the prevention of diseases of the teeth, periodontium, oral mucosa, lips, bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint, salivary glands; 3. Perform the prescribed actions when carrying out anti-epidemic measures for infectious diseases (submission of an emergency notification of the source of infection, identification and supervision of contact persons); 4. Use methods of primary and secondary prevention; 5. Apply methods of organizing primary prevention of dental diseases in any age group; 6. Apply personal protective</p> |
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| | | <p>equipment; Own:</p> <ol style="list-style-type: none"> 1. Carrying out preventive examinations of the population; 2. Appointment of preventive procedures; 3. Selection of drugs for the prevention of dental diseases; 4. Formation of a plan for preventive dental care for the patient; 5. Taking measures to reduce morbidity, including infectious diseases, disability, mortality, lethality; 6. Implementation of preventive procedures for dental diseases; 7. Prevention of diseases of the mucous membrane of the oral cavity and lips, including onco- hygienic prevention and secondary prevention of oncological neoplasms, with the exception of a specialized appointment for the treatment of precancers of the mucous membrane of the oral cavity and lips; 8. Selection of medical devices in the category "Dental materials" for the prevention of dental diseases; 9. Provision of qualified medical care in their specialty using modern methods of prevention approved for use in medical practice; 10. Brief preventive counseling; |
| <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-5.1 Способен применять алгоритм обследования пациента / He/she is able to apply the algorithm of patient's examination</p> | <p>Know:</p> <ol style="list-style-type: none"> 1. The biological role of the dentoalveolar region, the biomechanics of chewing, age-related changes in the maxillofacial region, the features of the impact of the external and internal environment on it; 2. Basic principles for diagnosing infectious diseases, medical indications for hospitalization of patients with infectious diseases; 3. Topographic anatomy of the head, maxillofacial region, |

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| | | <p>features of blood supply, innervation and lymphatic system, structure of teeth, embryology of the dentoalveolar region, main violations of embryogenesis;</p> <p>4. Etiology, pathogenesis, diagnosis of common diseases;</p> <p>5. The relationship of the structure and functioning of the dentition with disorders of the nasopharynx, respiratory and digestive systems, musculoskeletal system;</p> <p>6. The main issues of normal and pathological physiology of the dentition, its relationship with the functional state of other body systems and the levels of their regulation;</p> <p>7. Methods for diagnosing diseases of the temporomandibular joint, salivary glands in children and adults;</p> <p>8. Normal structure of teeth, jaws and structural disorders in case of dentoalveolar, facial anomalies;</p> <p>Be able to:</p> <ol style="list-style-type: none"> 1. Conduct physical examinations and interpret their results; 2. Identify general and specific signs of dental diseases; <p>Own:</p> <ol style="list-style-type: none"> 1. Primary examination of patients; 2. Re-examination of patients; |
| <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>Know:</p> <ol style="list-style-type: none"> 1. The biological role of the dentoalveolar region, the biomechanics of chewing, age-related changes in the maxillofacial region, the features of the impact of the external and internal environment on it; Basic principles for diagnosing infectious diseases, medical indications for hospitalization of patients with infectious diseases; 2. Topographic anatomy of the head, maxillofacial area, features of blood supply, innervation and lymphatic system, structure of |

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| | | <p>teeth, embryology of the dentition, main disorders of embryogenesis;</p> <p>3. Etiology, pathogenesis, diagnosis of common diseases;</p> <p>4. The relationship of the structure and functioning of the dentition with disorders of the nasopharynx, respiratory and digestive systems, musculoskeletal system;</p> <p>5. The main issues of normal and pathological physiology of the dental system, its relationship with the functional state of other body systems and the levels of their regulation;</p> <p>6. Methods for diagnosing diseases of the temporomandibular joint, salivary glands in children and adults;</p> <p>7. Normal structure of teeth, jaws and structural disorders in case of dentoalveolar, facial anomalies;</p> <p>Be able to:</p> <ol style="list-style-type: none"> 1. Conduct physical examinations and interpret their results; 2. Identify general and specific signs of dental diseases; <p>Own:</p> <ol style="list-style-type: none"> 1. Primary examination of patients; 2. Re-examination of patients; |
| <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>Know:</p> <ol style="list-style-type: none"> 1. Interpret the results of the initial examination of patients; 2. Interpret the results of re-examination of patients; 3. Justify the need and scope of laboratory tests; 4. Substantiate the need and scope of instrumental studies; 5. Justify the need and scope of additional examinations of patients (including radiographs, teleroentgenograms, radiovisiograms, orthopantomograms, tomograms (on film and digital media)); 6. Conduct a general clinical examination of children and adults; |

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| | | <p>7. Substantiate the need to refer patients for consultation to specialist doctors;</p> <p>8. Analyze the results of the survey;</p> <p>9. Substantiate and plan the scope of additional research;</p> <p>10. Interpret the results of collecting information from patients (their relatives/legal representatives);</p> <p>Be able to:</p> <ol style="list-style-type: none"> 1. Methods for diagnosing diseases of the temporomandibular joint, salivary glands in children and adults; 2. The value of special and additional research methods for the differential diagnosis of dental diseases; 3. Medical indications and contraindications for the use of X-ray and other methods of additional examination; 4. Medical devices used in dentistry (Design principles and operating rules); 5. International Statistical Classification of Diseases and Related Health Problems; <p>Own:</p> <ol style="list-style-type: none"> 1. Development of an algorithm for making a preliminary diagnosis; 2. Establishment of a preliminary diagnosis; 3. Referral of patients for laboratory tests; 4. Referral of patients for instrumental examinations; 5. Referral of patients for consultation to specialist doctors; |
| <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</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</p> | <p>Know:</p> <ol style="list-style-type: none"> 1. Methods of using medical devices, chemicals and drugs for plaque control; 2. Features of the provision of medical care in emergency and emergency forms for dental diseases; 3. Groups of drugs, their pharmacokinetics, |

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| <p>and safety of non-drug and pharmacological therapy in solving professional problems</p> | <p>prescribing medication, non-drug and other methods of treatment</p> | <p>pharmacodynamics, drug compatibility; 4. General and functional methods of treatment of patients with maxillofacial pathology; 5. Basic principles for the treatment of patients with infectious diseases; 6. Topographic anatomy of the head, maxillofacial area, features of blood supply, innervation and lymphatic system, structure of teeth, embryology of the dentition, main disorders of embryogenesis; Be able to: 1. Determine the indications and contraindications for the appointment of drug and non-drug and other methods of treatment; Own: 1. Prescribe drug therapy for diseases in accordance with existing medical indications, taking into account the pharmacodynamics and pharmacokinetics of drugs; 2. Prescribe non-drug therapy in accordance with medical indications;</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>Know: 1. Clinical picture, symptoms of pathology in the oral cavity, medical indications for the use of various methods of treatment; 2. The main methods of auxiliary surgical treatment of patients with dentoalveolar anomalies; 3. Clinical picture, main methods of treatment (medical indications, contraindications, complications) of diseases of the teeth, periodontium, oral mucosa, lips; 4. Morphological changes in the dentition during orthopedic and orthodontic treatment; 5. Clinical picture, main methods of treatment (medical indications, contraindications, complications) of diseases of the bone tissue of the jaws, peripheral nervous</p> |

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| | | <p>system of the maxillofacial region, temporomandibular joint;</p> <p>6. Clinical picture, main methods of orthopedic treatment of hard tissue pathology, periodontal disease, pathological abrasion, pathology of the temporomandibular joint;</p> <p>7. Clinical picture, 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>8. Clinical picture, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their treatment;</p> <p>9. Methods of treatment of dental and facial anomalies in children and adults;</p> <p>10. Principles, techniques and methods of anesthesia in dentistry;</p> <p>11. Principles of device and rules for the operation of medical devices (dental equipment);</p> <p>12. Modern medical products (equipment, tools and materials) used in dentistry;</p> <p>Be able to:</p> <ol style="list-style-type: none"> 1. Prescribe drug therapy for diseases in accordance with existing medical indications, taking into account the pharmacodynamics and pharmacokinetics of drugs; 2. Prescribe non-drug therapy in accordance with medical indications; <p>Own:</p> <ol style="list-style-type: none"> 1. Evaluation of possible side effects from taking medications; 2. Drawing up a comprehensive treatment plan; 3. Specialized reception for the treatment of caries, non-carious diseases of the teeth, pulpitis, periodontitis, diseases of the oral mucosa, with |
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| | | <p>the exception of precancers;</p> <p>4. Care of patients with injuries of the maxillofacial region, persons with disabilities at home;</p> <p>5. Consultation of the patient on the methods of treatment of dental diseases;</p> <p>6. Selection of medical devices (including dental materials) for the treatment of dental diseases;</p> <p>7. Surgical assistance within the operation of tooth extraction (excluding impacted and dystopic), opening of subperiosteal abscesses with periostitis of the jaws;</p> <p>8. Orthopedic treatment of persons with defects in teeth, dentitions within temporary prosthetics, prosthetics of single defects in the dentition, prostheses up to three units (excluding prosthetics on dental implants);</p> <p>9. Gradual rehabilitation of the oral cavity (excluding the rehabilitation of children under anesthesia);</p> <p>10. Treatment of milk and permanent teeth;</p> <p>11. Substantiation of the most appropriate treatment tactics;</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-6.3 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</p> | <p>Know:</p> <p>1. Clinical picture, main methods of treatment (medical indications, contraindications, complications) of diseases of the teeth, periodontium, oral mucosa, lips;</p> <p>2. Morphological changes in the dentition during orthopedic and orthodontic treatment;</p> <p>3. Clinical picture, 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>4. Clinical picture, main methods of orthopedic treatment of hard tissue pathology, periodontal disease, pathological abrasion,</p> |

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| | <p>pathology of the temporomandibular joint;</p> <p>5. Clinical picture, 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>6. Clinical picture, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their treatment;</p> <p>7. Methods of treatment of dental and facial anomalies in children and adults;</p> <p>8. Principles of device and rules for the operation of medical devices (dental equipment);</p> <p>9. Modern medical products (equipment, tools and materials) used in dentistry;</p> <p>Be able to:</p> <ol style="list-style-type: none"> 1. Evaluate the effectiveness and safety of drug treatments; 2. Evaluate the effectiveness and safety of non-drug treatments; 3. Analyze the effect of drugs on the basis of their pharmacological effects; 4. Analyze the effect of non-drug methods of treatment in terms of the totality of their properties; <p>Own:</p> <ol style="list-style-type: none"> 1. Selection of drugs for the treatment of dental diseases; 2. Formation of a treatment plan for a patient with dental diseases; 3. Treatment of diseases of the teeth, periodontium, bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint, salivary glands; 4. Monitoring the progress of the patient's treatment; 5. Treatment of diseases of the mucous membrane of the oral cavity, lips, with the exception of a specialized appointment for the |
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| | | <p>treatment of precancers of the mucous membrane of the oral cavity and lips;</p> <p>6. Evaluation of possible side effects from taking medications;</p> <p>7. Drawing up a comprehensive treatment plan;</p> <p>8. Specialized reception for the treatment of caries, non-carious diseases of the teeth, pulpitis, periodontitis, diseases of the oral mucosa, with the exception of precancers;</p> <p>9. Selection of medical devices (including dental materials) for the treatment of dental diseases;</p> <p>10. Orthopedic treatment of persons with defects in teeth, dentitions within temporary prosthetics, prosthetics of single defects in the dentition, prostheses up to three units (excluding prosthetics on dental implants);</p> <p>11. Substantiation of the most appropriate treatment tactics;</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-1.1 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)</p> | <p>Know:</p> <ol style="list-style-type: none"> 1. Rules for collecting anamnesis, questioning the patient; 2. Registration index for different age groups; 3. International digital teeth designation system; 4. Index assessment of the state of oral tissues; 5. Instrumental studies, their diagnostic capabilities, indicators corresponding to the norm and changes; <p>Be able to:</p> <ol style="list-style-type: none"> 1. Conduct a survey and examination of the patient; 2. Interpret instrumental research methods; <p>Own:</p> <ol style="list-style-type: none"> 1. The skills of collecting an anamnesis and methods of physical examination of the patient; 2. Assessment of the state of oral tissues. |
| <p>ПК-1 Способен провести</p> | <p>ПК-1.2 Способен</p> | <p>Know:</p> |

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| <p>обследования пациента с целью установления диагноза / He/she is able to perform a patient's examination in order to make a diagnosis</p> | <p>анализировать информацию, полученную при проведении 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>1. Etiology, pathogenesis, and preventive measures of the most common diseases (syndromes); 2. Risk factors of studied diseases; Be able to: 1. Interpret the data of the survey, examination of the patient, instrumental research methods; Own: 1. The skills of analyzing information obtained during the physical examination for the preparation of a preliminary analysis.</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>Know: 1. Scheme of examination of a dental patient, stages of the diagnostic process; 2. Rules for filling out a medical history; Be able to: 1. To carry out the main methods of examination of the patient; 2. Fill in the medical history; Own: 1. Skills for making a clinical diagnosis based on the information received; 2. Rules for maintaining medical records:</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 (протоколами лечения) по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи / He/she is able to develop a</p> | <p>Know: 1. The procedure for providing medical care to the adult population in case of dental diseases; 2. Clinical guidelines on the provision of medical care to patients with dental diseases; 3. Standards of medical care; 4. Methods of drug and non-drug treatment, medical indications for the use of medical devices for dental diseases; Be able to: 1. Develop a treatment plan for patients with diseases and (or) functional disorders of the dentofacial system, taking into account the course of the disease</p> |

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| | <p>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>in accordance with the current procedures for providing medical care in the clinic of orthopedic dentistry.</p> <ol style="list-style-type: none"> 2. Draw up a comprehensive treatment plan for diseases and (or) functional disorders of the dentofacial system. 3. Justify the scheme, plan and tactics of patient management, medical indications and contraindications for dental orthopedic treatment. 4. To carry out the selection of medicines (including dental materials), medical devices (dental, dentoalveolar and maxillofacial prostheses) for the treatment of dental diseases. <p>Own:</p> <ol style="list-style-type: none"> 1, Selection and prescription of medicines, medical devices (including dental materials) for the treatment of dental diseases in patients in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; 2. Appointment of a medical and recreational regimen in the treatment of dental diseases of patients in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical |
| <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</p> | <p>Know:</p> <ol style="list-style-type: none"> 1. Etiology, pathogenesis, clinical picture, classification, differential diagnosis, complications and treatment of dental diseases: defects in the crown part of the tooth, periodontal disease, increased tooth abrasion and other non-carious lesions of hard dental tissues, anomalies in the development and deformities of the dentition, partial and complete absence teeth, maxillofacial |

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| | <p>(протоколами лечения) по вопросам оказания 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>pathology. 2. Etiology, pathogenesis, clinical picture, classification, differential diagnosis of functional (internal) disorders and diseases of the temporomandibular joint. 3. Modern methods of treating patients with diseases and (or) functional disorders of the dentofacial system (defect of the crown part of the tooth, periodontal disease, increased tooth abrasion, deformation of the dentition, partial absence of teeth, complete absence of teeth, functional pathology of the temporomandibular joint, maxillofacial pathology). 4. Methods of drug treatment, medical indications for the use of medical devices in patients with diseases and (or) functional disorders of the dentofacial system (defect of the crown part of the tooth, periodontal disease, increased abrasion of teeth, deformation of the dentition, partial absence of teeth, complete absence of teeth, functional pathology of the temporomandibular joint, maxillofacial pathology) in accordance with the current procedures for the provision of medical care. 5. The mechanism of action of drugs, medical devices used in dentistry; medical indications and medical contraindications to the appointment; possible complications, side effects, adverse reactions, including serious and unforeseen. 6. Methods of non-drug treatment of diseases of the dentofacial system (manufacturing of orthopedic structures); medical indications and medical contraindications; possible complications, side effects, adverse reactions, including serious and unforeseen.</p> |
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| | | <p>7. Ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, that occurred during the examination or treatment of patients with diseases and (or) functional disorders of the dentofacial system.</p> <p>8. Diagnostic studies of patients with diseases and (or) functional disorders of the dentofacial system.</p> <p>9. Methods of anesthesia.</p> <p>10. Aseptic and antiseptic requirements.</p> <p>11. ICD.</p> <p>Be able to:</p> <ol style="list-style-type: none">1. Methods of using medical devices, chemicals and drugs for plaque control;2. Features of the provision of medical care in emergency and emergency forms for dental diseases;3. Groups of drugs, their pharmacokinetics, pharmacodynamics, drug compatibility;4. General and functional methods of treatment of patients with maxillofacial pathology;5. Basic principles for the treatment of patients with infectious diseases;6. Topographic anatomy of the head, maxillofacial region, features of blood supply, innervation and lymphatic system, structure of teeth, embryology of the dentition, basic7. violations of embryogenesis;8. Clinical picture, symptoms of pathology in the oral cavity, medical indications for the use of various methods of treatment;9. Main methods of auxiliary surgical treatment of patients with dentoalveolar anomalies;10. Clinical picture, main methods of treatment (medical indications, contraindications, |
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| | | <p>complications) of diseases of the teeth, periodontium, oral mucosa, lips;</p> <p>11. Morphological changes in the dentition during orthopedic and orthodontic treatment;</p> <p>12. Clinical picture, 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>13. Clinical picture, main methods of orthopedic treatment of hard tissue pathology, periodontal disease, pathological abrasion, pathology of the temporomandibular joint;</p> <p>14. Clinical picture, main methods of treatment (medical indications, contraindications, complications) of diseases of the salivary glands, congenital, acquired anomalies of teeth, dentition,</p> <p>15. alveolar processes, jaws, face;</p> <p>16. Clinical picture, symptoms of major diseases and borderline conditions of the maxillofacial region in adults and children, their treatment;</p> <p>17. Methods of treatment of dental and facial anomalies in children and adults;</p> <p>18. Principles, techniques and methods of anesthesia in dentistry;</p> <p>19. Principles of device and rules for the operation of medical devices (dental equipment);</p> <p>20. Modern medical products (equipment, tools and materials) used in dentistry;</p> <p>Own:</p> <p>1. Selection of medical devices (including dental materials) for the treatment of dental diseases.</p> <p>2. Prescribing medicines, medical devices (dental and dentoalveolar prostheses) to patients with</p> |
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| | | <p>diseases and (or) functional disorders of the dentofacial system in accordance with the current procedures for providing medical care.</p> <p>3. Evaluation of the effectiveness and safety of the use of drugs, medical devices (dental and dentoalveolar prostheses) for patients with diseases and (or) functional disorders of the dentofacial system.</p> <p>4. Appointment of non-drug treatment for patients with diseases and (or) functional disorders of the dentofacial system in accordance with the current procedures for the provision of medical care.</p> <p>5. Evaluation of the effectiveness and safety of non-drug treatment using dental and dentofacial prostheses in patients with diseases and (or) functional disorders of the dentofacial system.</p> <p>6. Counseling the patient on methods of treatment of dental diseases</p> <p>7. Performing therapeutic and diagnostic manipulations for patients with diseases and (or) functional disorders of the dentofacial system in accordance with the current procedures for providing medical care in the clinic of orthopedic dentistry.</p> <p>8. Treatment of partial and complete absence of teeth, periodontal diseases, increased abrasion of teeth, anomalies in the development and deformation of the dentition, defects in teeth and dentition, functional pathology of the temporomandibular joints and maxillofacial pathology using orthopedic methods of treatment.</p> <p>9. The use of basic methods of emergency medical care for patients with diseases and (or) functional disorders of the dentofacial system.</p> |
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| | | 10. Prevention or treatment of complications, side effects, adverse reactions resulting from diagnostic or therapeutic procedures, the use of drugs and (or) medical devices, non-drug treatment in patients with diseases and (or) functional disorders of the dentofacial system. |
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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 |
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| Section 1. Organizational principles of work of the orthopedic department of the dental clinic. | Topic 1. Organizational principles of the work of the orthopedic department of the dental clinic. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 2. Orthopedic treatment of patients with pathology of hard dental tissues. | Topic 2. Orthopedic treatment of patients with pathology of hard dental tissues with inlays: cast metal, plastic, combined (metal-ceramic and metal-plastic) and ceramic. | | |

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| Section 2. Orthopedic treatment of patients with pathology of hard dental tissues. | Topic 3. Orthopedic treatment of patients with pathology of hard dental tissues with artificial crowns: cast metal, plastic, combined (metal-ceramic and metal-plastic) and ceramic crowns. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| | Topic 4. Orthopedic treatment of patients with pathology of hard dental tissues using pin structures. | | |
| Section 3. Orthopedic treatment of patients with defects in the dentition. | Topic 5. Orthopedic treatment of patients with defects in the dentition with bridges: metal solid, combined metal-ceramic, metal-plastic, plastic, ceramic. | | |
| | Topic 6. Orthopedic treatment of patients with defects in the dentition with removable orthopedic structures. | | |
| Section 4. Orthopedic treatment of patients with complete absence of teeth. | Topic 7. Classification, etiology, pathogenesis, clinical manifestations, changes in the maxillofacial region in patients with complete absence of teeth. | | |
| | Topic 8. Methods of fixation and stabilization of complete removable dentures in the complete absence of teeth. | | |

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| | | | 6.1, ОПК-6.2, ОПК-6.3 |
| Section 4. Orthopedic treatment of patients with complete absence of teeth. | Topic 9. Methods for making and fitting individual spoons. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| | Topic 10. Functional impressions. Classification. Rationale for the application. Obtaining method. | | |
| | Topic 11. Determination of the central ratio of edentulous jaws. | | |
| | Topic 12. Biomechanics of the lower jaw. Patterns of articulation and occlusion of the dentition. Laws of articulation. Articulators. Setting up artificial teeth. | | |
| | Topic 13. Principles of fitting and applying dentures in the absence of teeth. | | |
| Topic 14. Two-layer prosthesis bases in the absence of teeth. | | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК- | |

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| | | | 5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| The individual contact work. | The individual contact work. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 5. Orthopedic treatment of patients with periodontal diseases. | Topic 15. Classification, etiology, pathogenesis, main symptoms of periodontal diseases. Features of examination of patients with periodontal diseases. | | |
| | Topic 16. Complex therapy of periodontal diseases. Temporary splinting. Permanent splinting. Focal periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment. | | |
| | Topic 17. Complex therapy of periodontal diseases. Temporary splinting. Permanent splinting. Generalized periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment. | | |
| Section 6. Orthopedic treatment of patients with pathological abrasion of hard dental tissues. | Topic 18. Classification, etiology, pathogenesis, main symptoms of pathological tooth wear. Features of the examination of patients with pathological abrasion of teeth. | | |
| Section 6. Orthopedic | Topic 19. Complex | ПК-1, ПК-2, | ПК-1.1, ПК-1.2, |

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| treatment of patients with pathological abrasion of hard dental tissues. | therapy of pathological abrasion of hard dental tissues. Orthopedic treatment of a localized form of pathological abrasion. | ОПК-2, ОПК-5, ОПК-6 | ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 6. Orthopedic treatment of patients with pathological abrasion of hard dental tissues. | Topic 20. Complex therapy of pathological abrasion of hard dental tissues. Orthopedic treatment of a generalized form of pathological abrasion. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 7. Orthopedic treatment of patients with acquired deformities of the dentition and occlusion. | Topic 21. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with the pathology of hard dental tissues. | | |
| | Topic 22. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with partial secondary adentia. | | |
| | Topic 23. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with functional periodontal insufficiency. | | |
| Section 8. Orthopedic treatment of patients with anomalies of the dentition. | Topic 24. Orthopedic treatment of patients with anomalies of teeth and dentition, complicated by pathology of hard dental tissues and their partial absence. | | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, |

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| | | | ОПК-6.3 |
| Section 8. Orthopedic treatment of patients with anomalies of the dentition. | Topic 25. Orthopedic treatment of patients with malocclusion, complicated by pathology of hard dental tissues and their partial absence. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 9. Orthopedic treatment of patients with diseases of the temporomandibular joint. | Topic 27. Methods of examination of patients with pathology of the temporomandibular joint. | | |
| | Topic 28. The main clinical manifestations, diagnosis and methods of treatment of temporomandibular joint pathology based on the ICD-10 classification. | | |
| Section 10. Maxillofacial orthopedic dentistry. | Topic 29. Orthopedic treatment of patients with fractures of the jaw bones. | | |
| | Topic 30. Orthopedic treatment of patients with complicated jaw injuries | | |
| | Topic 31. Prosthetics during resection of the jaw bones. | | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, |

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| | | | ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 10. Maxillofacial orthopedic dentistry. | Topic 32. Prosthetics of acquired defects of the hard and soft palate. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| | Topic 33. Orthopedic care in reconstructive surgery of the face and jaws. | | |
| Section 11. Orthopedic treatment of patients with defects in the dentition based on implants. | Topic 34. Features of planning and performing dental prosthetics using intraosseous implants. | | |
| | Topic 35. Features of dental prosthetics on implants in various clinical situations. | | |
| | Topic 36. Complications arising from dental implantation. | | |
| Section 12. Features of orthopedic treatment of patients with chronic diseases of the oral | Topic 37. Etiology, pathogenesis, diagnosis, differential diagnosis, clinical manifestations of | | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, |

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| mucosa. Pathological changes in the state of the body associated with the presence of dentures. | pathological conditions: allergy, galvanism, paresthesia, methods of prevention and treatment. Mistakes in orthopedic dentistry. Aesthetics in orthopedic dentistry. | | ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| Section 13. Diagnostic and tactical errors and complications associated with orthopedic treatment. | Topic 38. Diagnostic and tactical errors and complications associated with orthopedic treatment. | ПК-1, ПК-2, ОПК-2, ОПК-5, ОПК-6 | ПК-1.1, ПК-1.2, ПК-1.3, ПК-2.1, ПК-2.2, ОПК-2.1, ОПК-2.2, ОПК-2.3, ОПК-5.1, ОПК-5.2, ОПК-5.3, ОПК-6.1, ОПК-6.2, ОПК-6.3 |
| The Individual contact work. | The Individual contact work. | | |

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) | | | |
|---|----------------|--|-----|--------|-------|
| | | 8 | 9 | 10 | total |
| 1. Face-to-face work: | | 48,2 | 52 | 42,5 | 142,7 |
| In-class learning in total, including: | | 48 | 52 | 42 | 142 |
| Лекционные занятия (Лек) | | 16 | 16 | | 32 |
| Лабораторные занятия (Лаб) | | 32 | 36 | 42 | 110 |
| Индивидуальная контактная работа (ИКР) | | 0,2 | | 0,5 | 0,7 |
| 2. Independent work of the student: | | 23,8 | 92 | 65,5 | 181,3 |
| 3. Intermediate certification (exam) (экзамен, зачет) | | 3а | | Эк, 3а | |
| Total: | academic hours | 72 | 144 | 144 | 360 |
| | credit units | 2 | 4 | 4 | 10 |

| № 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. Organizational principles of work of the orthopedic department of the dental clinic. | | | | | | |
| 1 | Topic 1. Organizational principles of the work of the orthopedic department of the dental clinic. | | | | | 5,8 | 5,8 |
| | Section 2. Orthopedic treatment of patients with pathology of hard dental tissues. | | | | | | |
| 2 | Topic 2. Orthopedic treatment of patients with pathology of hard dental tissues with inlays: cast metal, plastic, combined (metal-ceramic and metal-plastic) and ceramic. | | | | | 4 | 4 |
| 3 | Topic 3. Orthopedic treatment of patients with pathology of hard dental tissues with artificial crowns: cast metal, plastic, combined (metal- ceramic and metal-plastic) and ceramic crowns. | | | | | 4 | 4 |
| 4 | Topic 4. Orthopedic treatment of patients with pathology of hard dental tissues using pin structures. | | | | | 2 | 2 |
| | Section 3. Orthopedic treatment of patients with defects in the dentition. | | | | | | |
| 5 | Topic 5. Orthopedic treatment of patients with defects in the dentition with bridges: metal solid, combined metal-ceramic, metal-plastic, plastic, ceramic. | | | | | 2 | 2 |
| 6 | Topic 6. Orthopedic treatment of patients with defects in the dentition with removable orthopedic structures. | | | 4 | | 2 | 6 |
| | Section 4. Orthopedic treatment of patients with complete absence of teeth. | | | | | | |

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| 7 | Topic 7. Classification, etiology, pathogenesis, clinical manifestations, changes in the maxillofacial region in patients with complete absence of teeth. | | | 4 | | 2 | 6 |
| 8 | Topic 8. Methods of fixation and stabilization of complete removable dentures in the complete absence of teeth. | 2 | | 4 | | | 6 |
| 9 | Topic 9. Methods for making and fitting individual spoons. | | | 4 | | 2 | 6 |
| 10 | Topic 10. Functional impressions. Classification. Rationale for the application. Obtaining method. | 2 | | 4 | | | 6 |
| 11 | Topic 11. Determination of the central ratio of edentulous jaws. | 2 | | 4 | | | 6 |
| 12 | Topic 12. Biomechanics of the lower jaw. Patterns of articulation and occlusion of the dentition. Laws of articulation. Articulators. Setting up artificial teeth. | 4 | | 2 | | | 6 |
| 13 | Topic 13. Principles of fitting and applying dentures in the absence of teeth. | 4 | | 2 | | | 6 |
| 14 | Topic 14. Two-layer prosthesis bases in the absence of teeth. | 2 | | 4 | | | 6 |
| | The individual contact work. | | | | | | |
| 15 | The individual contact work. | | | | 0,2 | | 0,2 |
| | Section 5. Orthopedic treatment of patients with periodontal diseases. | | | | | | |
| 16 | Topic 15. Classification, etiology, pathogenesis, main symptoms of periodontal diseases. Features of examination of patients with periodontal diseases. | 2 | | 2 | | | 4 |
| 17 | Topic 16. Complex therapy of periodontal diseases. Temporary splinting. Permanent splinting. Focal periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment. | | | 4 | | | 4 |

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| 18 | Topic 17. Complex therapy of periodontal diseases. Temporary splinting. Permanent splinting. Generalized periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment. | | | 4 | | 24 | 28 |
| | Section 6. Orthopedic treatment of patients with pathological abrasion of hard dental tissues. | | | | | | |
| 19 | Topic 18. Classification, etiology, pathogenesis, main symptoms of pathological tooth wear. Features of the examination of patients with pathological abrasion of teeth. | 4 | | 2 | | | 6 |
| 20 | Topic 19. Complex therapy of pathological abrasion of hard dental tissues. Orthopedic treatment of a localized form of pathological abrasion. | | | 2 | | | 2 |
| 21 | Topic 20. Complex therapy of pathological abrasion of hard dental tissues. Orthopedic treatment of a generalized form of pathological abrasion. | 2 | | 4 | | 24 | 30 |
| | Section 7. Orthopedic treatment of patients with acquired deformities of the dentition and occlusion. | | | | | | |
| 22 | Topic 21. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with the pathology of hard dental tissues. | 2 | | 4 | | | 6 |
| 23 | Topic 22. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with partial secondary adentia. | | | 4 | | | 4 |
| 24 | Topic 23. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with functional periodontal insufficiency. | 2 | | 4 | | 22 | 28 |
| | Section 8. Orthopedic treatment of patients with anomalies of the dentition. | | | | | | |

| | | | | | | | |
|----|--|---|--|---|--|----|----|
| 25 | Topic 24. Orthopedic treatment of patients with anomalies of teeth and dentition, complicated by pathology of hard dental tissues and their partial absence. | 4 | | 4 | | | 8 |
| 26 | Topic 25. Orthopedic treatment of patients with malocclusion, complicated by pathology of hard dental tissues and their partial absence. | | | 2 | | 22 | 24 |
| | Section 9. Orthopedic treatment of patients with diseases of the temporomandibular joint. | | | | | | |
| 27 | Topic 27. Methods of examination of patients with pathology of the temporomandibular joint. | | | 4 | | | 4 |
| 28 | Topic 28. The main clinical manifestations, diagnosis and methods of treatment of temporomandibular joint pathology based on the ICD-10 classification. | | | 4 | | | 4 |
| | Section 10. Maxillofacial orthopedic dentistry. | | | | | | |
| 29 | Topic 29. Orthopedic treatment of patients with fractures of the jaw bones. | | | 4 | | | 4 |
| 30 | Topic 30. Orthopedic treatment of patients with complicated jaw injuries | | | 4 | | | 4 |
| 31 | Topic 31. Prosthetics during resection of the jaw bones. | | | 8 | | | 8 |
| 32 | Topic 32. Prosthetics of acquired defects of the hard and soft palate. | | | 4 | | | 4 |
| 33 | Topic 33. Orthopedic care in reconstructive surgery of the face and jaws. | | | 2 | | | 2 |
| | Section 11. Orthopedic treatment of patients with defects in the dentition based on implants. | | | | | | |
| 34 | Topic 34. Features of planning and performing dental prosthetics using intraosseous implants. | | | 4 | | | 4 |
| 35 | Topic 35. Features of dental prosthetics on implants in various clinical situations. | | | 4 | | | 4 |

| | | | | | | | |
|----------------------|--|----|--|-----|-----|-------|------|
| 36 | Topic 36. Complications arising from dental implantation. | | | 4 | | | 4 |
| | Section 12. Features of orthopedic treatment of patients with chronic diseases of the oral mucosa. Pathological changes in the state of the body associated with the presence of dentures. | | | | | | |
| 37 | Topic 37. Etiology, pathogenesis, diagnosis, differential diagnosis, clinical manifestations of pathological conditions: allergy, galvanism, paresthesia, methods of prevention and treatment. Mistakes in orthopedic dentistry. Aesthetics in orthopedic dentistry. | | | | | 32,7 | 32,7 |
| | Section 13. Diagnostic and tactical errors and complications associated with orthopedic treatment. | | | | | | |
| 38 | Topic 38. Diagnostic and tactical errors and complications associated with orthopedic treatment. | | | | | 32,8 | 32,8 |
| | The Individual contact work. | | | | | | |
| 39 | The Individual contact work. | | | | 0,5 | | 0,5 |
| Total academic hours | | 32 | | 110 | 0,7 | 181,3 | 360 |

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

Раздел 3. Section 3. Orthopedic treatment of patients with defects in the dentition.

Тема 6. Topic 6. Orthopedic treatment of patients with defects in the dentition with removable orthopedic structures.

Лабораторное занятие. Orthopedic treatment of patients with defects in the dentition with removable orthopedic structures: partial removable lamellar dentures.

Раздел 4. Section 4. Orthopedic treatment of patients with complete absence of teeth.

Тема 7. Topic 7. Classification, etiology, pathogenesis, clinical manifestations, changes in the maxillofacial region in patients with complete absence of teeth.

Лабораторное занятие. Classification, etiology, pathogenesis, clinical manifestations, changes in the maxillofacial region in patients with complete absence of teeth.

Тема 8. Topic 8. Methods of fixation and stabilization of complete removable dentures in the complete absence of teeth.

Лекционное занятие. Biophysical and functional factors underlying the fixation of prostheses in edentulous jaws. The concept of the valve zone. Compliance and mobility of the oral mucosa. Classification. The doctrine of fixation and stabilization of prostheses.

Лабораторное занятие. Methods of fixation and stabilization of complete removable dentures in the complete absence of teeth.

Тема 9. Topic 9. Methods for making and fitting individual spoons.

Лабораторное занятие. Methods for the manufacture of individual spoons.

Тема 10. Topic 10. Functional impressions. Classification. Rationale for the application. Obtaining method.

Лекционное занятие. The functional impressions. Classification. Rationale for the application. Obtaining method. Materials for obtaining functional casts depending on the type of mucous membrane of the prosthetic bed, its compliance, moisture and pain sensitivity. Methods for obtaining unloading, compression and differentiated impressions.

Лабораторное занятие. The functional impressions.

Тема 11. Topic 11. Determination of the central ratio of edentulous jaws.

Лекционное занятие. The anatomical and physiological method for restoring occlusal relationships and height of the lower face. Fixation of the central ratio of edentulous jaws. Anthropometric landmarks and anatomical patterns of the structure of the face in orthognathic bite, which underlie the construction of artificial dentition in prostheses for edentulous jaws.

Patterns of occlusion and articulation of the dentition in orthognathic and other physiological types of bites. Their reproduction in prostheses for edentulous jaws by methods of anatomical setting of teeth. Laws of articulation (Bonville-Gysi-Hanau). Registration of mandibular movements and data transfer to individual articulators. "Spherical" theory and its implementation in the practice of restoring dentition in the absence of teeth.

Лабораторное занятие. Determination of the central ratio of edentulous jaws.

Тема 12. Topic 12. Biomechanics of the lower jaw. Patterns of articulation and occlusion of the dentition. Laws of articulation. Articulators. Setting up artificial teeth.

Лекционное занятие. Patterns of articulation and occlusion of the dentition. Biomechanics of the lower jaw. Laws of articulation Bonvil, Hanau. Articulating five Hanau.

Лабораторное занятие. Patterns of articulation and occlusion of the dentition.

Тема 13. Topic 13. Principles of fitting and applying dentures in the absence of teeth.

Лекционное занятие. Principles of fitting and imposition of dentures in the complete absence of teeth. Checking wax bases with artificial teeth on diagnostic models and in the patient's mouth. Analysis of medical and technical errors in determining the central ratio of the jaws. Examination of prostheses outside the oral cavity and in the oral cavity. Correction of the frenulum area, strands of the oral mucosa. Checking the fixation of prostheses, the closure of the dentition in the central, anterior and lateral occlusions. Correction of occlusal contacts with occlusal paper. The problem of adaptation to prostheses at rest, during chewing and speech.

Лабораторное занятие. Principles of fitting and imposition of dentures in the complete absence of teeth.

Тема 14. Topic 14. Two-layer prosthesis bases in the absence of teeth.

Лекционное занятие. Two-layer prosthesis bases in the complete absence of teeth. Indications for use. Manufacturing technique. Indications for the use of two-layer bases in the complete absence of teeth. The technique of manufacturing two-layer bases in the complete absence of teeth. Features of orthopedic treatment of patients with a decrease in the height of the lower face, with repeated prosthetics.

Лабораторное занятие. Two-layer prosthesis bases in the complete absence of teeth.

Раздел 6. Section 5. Orthopedic treatment of patients with periodontal diseases.

Тема 16. Topic 15. Classification, etiology, pathogenesis, main symptoms of periodontal diseases. Features of examination of patients with periodontal diseases.

Лекционное занятие. The Clinic, etiology and pathogenesis of periodontal diseases. Classification. The role of the function of chewing and swallowing, local traumatic factors, partial absence in the development of pathological processes in the periodontium. Vascular-biomechanical theory of periodontal diseases. Methods of examination of patients with periodontal diseases. Filling and analysis of odontoperiodontogram. Goals and biomechanical foundations of orthopedic treatment in the complex therapy of periodontitis, its stages. Normalization of occlusal ratios in periodontitis. Occlusogram. Indications, methods of implementation and therapeutic effect of selective grinding, orthodontic treatment methods and temporary splinting. Preventive value of the use of direct splinting prostheses.

Лабораторное занятие. The Classification, etiology, pathogenesis, main symptoms of periodontal diseases. Features of examination of patients with periodontal diseases.

Тема 17. Topic 16. Complex therapy of periodontal diseases. Temporary splinting. Permanent splinting. Focal periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment.

Лабораторное занятие. The Focal periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment.

Тема 18. Topic 17. Complex therapy of periodontal diseases. Temporary splinting. Permanent splinting. Generalized periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment.

Лабораторное занятие. The Generalized periodontitis. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Principles of complex treatment. Immediate prosthetics.

Раздел 7. Section 6. Orthopedic treatment of patients with pathological abrasion of hard dental tissues.

Тема 19. Topic 18. Classification, etiology, pathogenesis, main symptoms of pathological tooth wear. Features of the examination of patients with pathological abrasion of teeth.

Лекционное занятие. The Pathological abrasion of teeth. Etiology.

Definition of the concepts of “physiological”, “delayed” and “pathological” wear of hard tissues of dental crowns. Methods of objective research. The study of diagnostic models. Classification of pathological wear according to severity and extent. Orthopedic and complex (orthodontic and orthopedic) treatment of a localized form of pathological wear. The role of surgical interventions (compact osteotomy) in accelerating the restructuring of the bone tissue of the alveolar processes (parts) of the jaws.

Лабораторное занятие. The Classification, etiology, pathogenesis, main symptoms of increased pathological tooth wear. Features of the examination of patients with increased pathological abrasion of teeth.

Тема 20. Topic 19. Complex therapy of pathological abrasion of hard dental tissues. Orthopedic treatment of a localized form of pathological abrasion.

Лабораторное занятие. The Complex therapy of pathological abrasion. Localized form of pathological abrasion. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Orthopedic dental treatment.

Тема 21. Topic 20. Complex therapy of pathological abrasion of hard dental tissues. Orthopedic treatment of a generalized form of pathological abrasion.

Лекционное занятие. The Pathological abrasion of teeth. generalized form. Clinical manifestations: with a decrease in the height of the lower face in central occlusion and without a decrease in the height of the lower face. Costen's otoneurological syndrome. Differentiated approach in complex treatment. Features of treatment with intact integrity of the dentition and partial absence of teeth.

Лабораторное занятие. The Complex therapy of pathological abrasion. Generalized form of pathological abrasion. Etiology. Pathogenesis. Clinical manifestations. Features of diagnostics. Orthopedic dental treatment.

Раздел 8. Section 7. Orthopedic treatment of patients with acquired deformities of the dentition and occlusion.

Тема 22. Topic 21. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with the pathology of hard dental tissues.

Лекционное занятие. Lectures. Deformations of the dentoalveolar system associated with pathology of the hard tissues of the teeth. Etiology. Pathogenesis. Clinical manifestations. Diagnostics. Comprehensive treatment of patients with deformities of the dentition and occlusion associated with the pathology of hard dental tissues.

Features of the diagnosis of deformations of the dentition and occlusion associated with the pathology of hard dental tissues. Principles of orthopedic rehabilitation of patients with deformities of the dentition and occlusion associated with the pathology of hard dental tissues. Orthopedic treatment of patients with deformities of the dentition and occlusion

associated with partial secondary adentia.

1. Features of the diagnosis of patients with deformities of the dentition and occlusion associated with partial secondary adentia. Plain radiography (tomography) of the TMJ. Interpretation of teleroentgenograms. The study of diagnostic models. Differential diagnosis.

2. Formulation of the diagnosis. Determination of medical tactics of patient management, which aims to: normalize the bite, the height of the lower face in the central occlusion.

3. Features of orthopedic rehabilitation of patients with deformities of the dentition and occlusion associated with partial secondary adentia.

Лабораторное занятие. The Orthopedic treatment of patients with deformities of the dentition and occlusion associated with the pathology of hard dental tissues.

Тема 23. Topic 22. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with partial secondary adentia.

Лабораторное занятие. The Deformations of the dentoalveolar system associated with partial secondary adentia. Etiology. Pathogenesis. Clinical manifestations. Diagnostics. Comprehensive treatment of patients with deformities of the dentition and occlusion associated with partial secondary adentia.

Тема 24. Topic 23. Orthopedic treatment of patients with deformities of the dentition and occlusion associated with functional periodontal insufficiency.

Лекционное занятие. The Orthopedic treatment of patients with deformities of the dentition and occlusion associated with functional periodontal insufficiency. The etiology of deformations of the dentition and occlusion associated with functional insufficiency of periodontal tissues. Clinical manifestations of deformities of the dentition and bite associated with functional insufficiency of periodontal tissues. The etiology of deformations of the dentition and occlusion associated with partial secondary adentia. Pathogenesis of distal displacement of the lower jaw in the presence of terminal defects in the dentition. Features of the clinical course of the disease. facial symptoms. Kosten's syndrome. Decrease in the height of the lower part of the face in the central occlusion.

Лабораторное занятие. The Orthopedic treatment of patients with deformities of the dentition and occlusion associated with functional periodontal insufficiency.

Раздел 9. Section 8. Orthopedic treatment of patients with anomalies of the dentition.

Тема 25. Topic 24. Orthopedic treatment of patients with anomalies of teeth and dentition, complicated by pathology of hard dental tissues and their partial absence.

Лекционное занятие. The Orthopedic treatment of patients with anomalies of teeth, dentition and occlusion, complicated by the pathology of hard dental tissues and their partial absence. Etiology. Features of clinical manifestations. Diagnostics. Comprehensive dental treatment of this group of patients.

Лабораторное занятие. The Orthopedic treatment of patients with anomalies of teeth and dentition, complicated by the pathology of hard dental tissues and their partial absence.

Тема 26. Topic 25. Orthopedic treatment of patients with malocclusion, complicated by pathology of hard dental tissues and their partial absence.

Лабораторное занятие. Orthopedic treatment of patients with malocclusion, complicated by pathology of hard dental tissues and their partial absence.

Раздел 10. Section 9. Orthopedic treatment of patients with diseases of the temporomandibular joint.

Тема 27. Topic 27. Methods of examination of patients with pathology of the temporomandibular joint.

Лабораторное занятие. The Diseases of the temporomandibular joint. Etiology and pathogenesis of arthrosis and arthritis. Dislocations and subluxations. Methods of objective examination. The role of orthodontic appliances in complex therapy. Influence of designs of dentures on the development of disorders in the dental system (occlusal, articular, muscular). Differential diagnosis. Prevention methods. Review of modern scientific and practical achievements in orthopedic dentistry. Computer precision, electro-erosion technologies in the manufacture of dentures. Modern methods of diagnostics - computed tomography, echolocation, visioentgenography.

Тема 28. Topic 28. The main clinical manifestations, diagnosis and methods of treatment of temporomandibular joint pathology based on the ICD-10 classification.

Лабораторное занятие. The Oral and maxillofacial anomalies: TMJ pain dysfunction syndrome, snapping jaw, recurrent dislocation and subluxation of the TMJ, TMJ stiffness not elsewhere classified, TMJ osteophyte. Etiology. Pathogenesis. Clinic. Diagnostics. Complex treatment.

Diseases of the musculoskeletal system and connective tissue: arthropathy, arthrosis. Etiology. Pathogenesis. Clinic. Diagnostics. Complex treatment.

Раздел 11. Section 10. Maxillofacial orthopedic dentistry.

Тема 29. Topic 29. Orthopedic treatment of patients with fractures of the jaw bones.

Лабораторное занятие. The Organizational and therapeutic measures in the staged rehabilitation of patients with multiple trauma.

First medical aid for fractures of the jaws.

Specialized care for jaw fractures: orthopedic treatment of fractures of the upper jaw, orthopedic treatment of fractures of the lower jaw.

Tire technology.

Terms of use of tires and devices.

Тема 30. Topic 30. Orthopedic treatment of patients with complicated jaw injuries

Лабораторное занятие. The Prosthetics for false joints of the lower jaw.

Treatment for improperly fused fractures of the jaws: with preserved dentition, with partial loss of teeth, with complete loss of teeth.

Prosthetics with narrowing of the oral fissure and loss of teeth.

Contracture of the lower jaw. Prevention and treatment.

Тема 31. Topic 31. Prosthetics during resection of the jaw bones.

Лабораторное занятие. The Prosthetics during resection of the alveolar process of the upper jaw.

The Prosthetics for unilateral resection of the upper jaw.

The Prosthetics when removing the entire upper jaw.

The Prosthetics during resection of the chin section of the lower jaw.

The Prosthetics for resection of half of the lower jaw.

The Prosthetics for total resection of the lower jaw.

Тема 32. Topic 32. Prosthetics of acquired defects of the hard and soft palate.

Лабораторное занятие. The Prosthetics of median defects of the hard palate and the presence of teeth in the upper jaw and in the edentulous upper jaw.

The Prosthetics of anterior and lateral defects of the hard palate.

The Prosthetics in the presence of soft palate defects.

The Prosthetics in the presence of combined defects of the hard and soft palate.

Тема 33. Topic 33. Orthopedic care in reconstructive surgery of the face and jaws.

Лабораторное занятие. The Orthopedic care in reconstructive surgery of the face and jaws.

The Orthopedic measures in osteoplasty of the lower jaw.

The Shaping devices used in facial plastic surgery.

The Forming devices for plastic surgery of the vestibule of the oral cavity.

The Orthopedic measures for palate plastic surgery.

The Orthopedic measures for rhinoplasty.

Раздел 12. Section 11. Orthopedic treatment of patients with defects in the dentition based on implants.

Тема 34. Topic 34. Features of planning and performing dental prosthetics using intraosseous implants.

Лабораторное занятие. The Rationale for the choice of denture design.

The Planning the location and angles of the axes of the implants.

The Implant loading planning.

The Planning for one-stage dental implantation with immediate loading.

The Mistakes in dental implant planning.

Тема 35. Topic 35. Features of dental prosthetics on implants in various clinical situations.

Лабораторное занятие. The Prosthetics with a single defect located in the anterior part of the dentition.

The Prosthetics with small included defects located in the lateral sections of the dentition.

The Prosthetics for defects located in the distal dentition.

The Prosthetics in the absence of a large number of teeth.

The Prosthetics with complete adentia.

The Prosthetics using implants with an abnormal ratio of dentition.

The Prosthetics using implants in TMJ pathology.

Тема 36. Topic 36. Complications arising from dental implantation.

Лабораторное занятие. The Complications at the orthopedic stage and in the process of dispensary observation of patients.

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:

Составными элементами образовательных технологий являются:

- лекции - для изложения нового материала, с целью повышения качества восприятия информации, используются классические и визуальные лекции, которые предполагают использование современных инетраактивных средств (электронные доски, проекторы).

- лабораторные занятия (компьютерные симуляции) - для закрепления теоретических знаний и развития клинического мышления проводятся занятия в фантомном классе и зубо-технической лаборатории, с дискуссионным обсуждением и разбором ситуационных задач. К проведению лабораторных занятий по предмету ортопедическая стоматология в обязательном порядке привлекается сертифицированный специалист - зубной техник лаборант, для демонстрации технических этапов изготовления ортопедических стоматологических конструкций.

- самостоятельная работа обучающихся используется в качестве опережающего этапа к проведению лабораторных занятий и предполагает наличие теоретических знаний у обучающихся, полученных самостоятельно, закрепление которых происходит в процессе проведения лабораторных занятий.

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. Biomechanics of movements of the lower jaw.
2. Laws of articulation Bonvil, Hanau.
3. Extra- and intra-oral recording of the movements of the lower jaw.
4. Graphic methods for registering the movements of the lower jaw.
5. Etiology and pathogenesis of TMJ diseases.
6. Clinic of various nosological forms of TMJ diseases.
7. X-ray diagnostics of TMJ diseases.
8. Clinical disorders of functional occlusion.
9. Supercontacts and methods for their elimination.
10. Habitual dislocations and subluxations of the lower jaw.
11. Habitual dislocations of the intra-articular meniscus.
12. Parafunctions of masticatory and mimic muscles.
13. Arthritis of the TMJ (etiology, pathogenesis, clinical picture of acute and chronic forms).
14. Arthrosis of the TMJ (etiology, pathogenesis, clinical picture of acute and chronic forms).
15. Orthopedic treatment of neuromuscular dysfunctional syndrome.
16. Orthopedic treatment of habitual dislocations and subluxations of the lower jaw.
17. Orthopedic treatment of easily reducible and chronic dislocations of the meniscus.
18. Orthopedic and complex treatment of acute and chronic arthritis of the TMJ.
19. Orthopedic treatment of TMJ arthrosis.
20. Orthopedic treatment of fibrous ankylosis in adults.
21. The concept of tabs, indications for their use.
22. Differences in indications for the manufacture of fillings and inlays.
23. Basic principles of cavity preparation for inlays.
24. Direct and indirect method of making inlays.

25. What are adhesive veneers?

26. Indications and contraindications for the manufacture of veneers.

27. Rules for preparation and technique for taking an impression in the manufacture of veneers.

28. Possible errors and complications in the manufacture and use of veneers.

29. Classification of locks.

30. The principle of treatment with combined structures.

31. Stages of manufacturing combined structures.

32. Stages of milling wax structures.

33. Stages of milling metal structures.

34. Basic plastics. Compound. Properties.

35. Preparation and mode of polymerization of plastics.

36. Elastic materials of cold vulcanization.

37. Elastic materials of hot vulcanization.

38. Methods for applying a soft lining.

39. Maxillofacial orthopedics. Targets and goals.

40. Classification of complex maxillofacial apparatus.

6.2. Sample list of questions for the examination

1. The structure of the dental clinic. Orthopedic department - doctors' offices and a dental laboratory. Modern equipment and equipment. Safety in the clinic and laboratory.

2. Pathology of hard dental tissues. Classification and etiological factors. Survey methods. Diagnostics. Types of dentures that restore the anatomical shape of the teeth. Treatment methods: using light-cured composites, inlays, artificial crowns, pin structures.

3. Features of the design of removable dentures with orthognathic, prognic and prognathic ratio of dentition. Designing the dentition according to individual occlusal curves.

4. Sanitary and hygienic standards for a doctor's office and a dental laboratory for placement, arrangement, interior decoration, lighting, ventilation.

5. Pathology of hard tissues of teeth of carious etiology. Classification of cavities according to Black. International classification with the letter designation of the topography of the cavities. Direct and indirect methods for making inlays.

6. Two-layer bases of prostheses in the complete absence of teeth. Indications, manufacturing technique. Features of orthopedic treatment of patients with lowering the height of the lower face, with repeated prosthetics.

7. Goals and objectives of orthopedic dentistry, its sections.

8. Methods of teaching hard tissues of teeth for artificial crowns. A set of necessary tools. preparation mode. Biological reaction of tooth tissues to odontopreparation.

9. Fitting and application of a removable lamellar prosthesis. Control of occlusal-articulation relationships between the dentition in all types of occlusion. Criteria for assessing the quality of removable dentures. Instructions

the patient about the rules for using removable dentures, oral hygiene and prosthesis care.

Forecast.

10. Organization of admission of the primary patient in the clinic of orthopedic dentistry. Treatment planning. Legal aspects of medical documentation, rules for filling it out.

11. Orthopedic treatment with cast all-metal and combined (cermet, metal-plastic) crowns. Indications for use. Clinical and laboratory stages of manufacturing.

12. Types of stabilization of the dentition in periodontal diseases. Justification of the design of the splinting apparatus or splint-prosthesis, depending on the localization of the pathological process.

13. Organization of the workplace of an orthopedic dentist, taking into account ergonomics. Work at the chair "in four hands".

14. Principles of tooth preparation for cast crowns. A set of necessary tools. The

technique of creating a gingival ledge, its shape, location in relation to the gum.

15. Periodontal disease. Etiology. Pathogenesis. Classification. The main symptoms of periodontitis. Drawing up a comprehensive treatment plan. The choice of methods of orthopedic treatment depending on the severity of the pathological process. Diseases

periodontal. Etiology. Pathogenesis. Classification. The main symptoms of periodontitis.
Planning

17. Morphology of the gingival sulcus (folds). The concept of "gingival pocket". Methods of "disclosure" (retraction) of the gingival margin and exposure of the formed ledge. Method for obtaining a double refined cast.

18. Orthopedic treatment of partial absence of teeth with clasp (supported) prostheses. Indications for the manufacture of clasp prostheses. Clinical and laboratory stages of manufacturing.

19. Preparation of patients for orthopedic manipulations.

20. Artificial crowns - their types, classification. Clinical stages of orthopedic treatment with all-metal stamped crowns.

21. Functional tests of Herbst. The border of the basis of the prosthesis in the complete absence of teeth in the upper and lower jaws. Reshaping the sides of the spoon to obtain functional suction. Border Refinement Materials
individual spoons.

22. Complete absence of teeth. Features of clinical examination. Classification of edentulous jaws. Classification of the types of mucous membrane of the prosthetic bed according to Suppli, compliance zones according to Lund, pain sensitivity of the mucous shells.

23. The clinical stage in the manufacture of a stamped crown is tooth preparation. A set of necessary tools. Requirements for a properly prepared tooth for an all-metal stamped crown.

24. An integrated approach in the treatment of patients with periodontal disease. Methods of orthopedic treatment.

25. Biomechanics of the lower jaw. Patterns of articulation and occlusion of the dentition.

26. Classification of cavities in I and II classes of defects according to the degree of destruction of the occlusal surface of the tooth (IROPZ). Design features of inlays depending on the material and IROPZ.

27. Determination of the central ratio of the jaws in patients with complete absence of teeth according to the classical theory of Bonville-Gysi-Hanau. Anthropometric landmarks on the face. Definition of concepts: "height of the lower face in
position with relative physiological rest of the masticatory muscles"; "height of the lower part of the face in the central

6.3. Suggested themes of term papers (projects)

Написание курсовых работ не предусмотрен.

6.4. Suggested themes of term projects

Написание курсовых проектов не предусмотрено.

6.5. Suggested topics of calculation and graphic works

Nosological units:

1. Orthopedic dental treatment of patients with defects in hard dental tissues.
2. Orthopedic treatment of patients with defects in the dentition.
3. Orthopedic treatment of patients with complete absence of teeth.
4. Orthopedic treatment of patients with periodontal diseases.
5. Orthopedic treatment of patients with pathological abrasion of hard dental tissues.
6. Orthopedic treatment of patients with acquired deformities of the dentition and occlusion.

7. Orthopedic treatment of anomalies of the dentition.
 8. Orthopedic treatment of patients with diseases of the temporomandibular joint.
 9. Maxillofacial orthopedics.
 10. Orthopedic treatment of patients with defects in the dentition based on implants.
 11. Orthopedic treatment of patients with chronic diseases of the oral mucosa.
 12. Diagnostic and tactical errors and complications associated with orthopedic treatment.

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

Normative-legal acts in the field of education.

1. Federal Law of December 29, 2012 N 273-FZ "On Education in the Russian Federation" http://www.consultant.ru/document/cons_doc_LAW_140174/
2. Decree 852 of June 1, 2021 "On licensing medical activities"
3. Order 110n dated February 18, 2021 "On Amendments to Order 560n dated June 9, 2020 "On Approval of the Rules for Conducting X-Ray Examinations"
4. Order No. 205n dated March 15, 2021 "On Approval of the Procedure for Selecting an Advanced Training Program by a Medical Worker in an Organization Carrying out Educational Activities for Referral to Additional Professional Education at the expense of the normalized insurance reserve of the Federal Compulsory Medical Insurance Fund, the normalized insurance reserve of the territorial compulsory medical insurance fund medical insurance"
5. Order No. 109n of February 18, 2021 "On Amendments to the Procedure for Providing Medical Care to the Adult Population for Dental Diseases, approved by Order of the Ministry of Health of the Russian Federation of July 31, 2020 No. 786n"
6. Order 58n of February 8, 2021 "On the specifics of the admission of individuals to carry out medical activities and (or) pharmaceutical activities without a specialist certificate or certificate of accreditation of a specialist and (or) in specialties not provided for by a specialist certificate or certificate of accreditation of a specialist in 2021 »
7. Professional standard "Dentist"
8. Order 469n dated July 31, 2020 "On approval of the professional standard "Dental Hygienist"
9. Order 786n dated July 31, 2020 "On approval of the procedure for providing medical care to adults with dental diseases"
10. Letter of the Ministry of Health 10-0 / I / 2-13985 dated September 24, 2020 "On the need to organize work in an online format"
- 11 Order No. 984 of August 12, 2020 "On approval of the educational standard of higher education - specialist in the specialty 31.05.03 Dentistry"

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 | Научная библиотека ЧувГУ [Электронный ресурс]. | Режим доступа: http://library.chuvsu.ru |
| 2 | Электронно-библиотечная система IPRBooks [Электронный ресурс] | Режим доступа: http://www.iprbookshop.ru |
| 3 | ЭБС «Издательство «Лань» [Электронный ресурс] | Режим доступа: https://e.lanbook.com/ |
| 4 | Российская государственная библиотека [Электронный ресурс] | Режим доступа: http://www.rsl.ru |
| 5 | Российская национальная библиотека [Электронный ресурс] | Режим доступа: http://www.nlr.ru |

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.chuvsu.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:

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

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 | | Учебная аудитория для занятий семинарского типа, текущего контроля и промежуточной аттестации. Оборудование: учебная доска, учебная мебель, переносное мультимедийное оборудование (проектор, экран, персональный компьютер или ноутбук с необходимым программным обеспечением для тематических иллюстраций и демонстраций, соответствующих программе дисциплины) |
| 2 | | Помещение для самостоятельной работы обучающихся. Оборудование: компьютерная техника с подключением к сети Интернет и доступом к электронной информационно-образовательной среде ФГБОУ ВО «Чувашский государственный университет имени И.Н. Ульянова» |
| 3 | | Симуляционный центр: система видеонаблюдения. Учебная мебель |
| 4 | Лек | Учебные аудитории для занятий лекционного типа, семинарского типа. Оборудование: учебная доска, учебная мебель, мультимедийное оборудование (проектор, экран, персональный компьютер или ноутбук с необходимым программным обеспечением для тематических иллюстраций и демонстраций, соответствующих программе дисциплины) |

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.

The Independent work of students is an integral part of the educational process. The purpose of independent work of students is to master fundamental knowledge, professional skills, experience in creative, research activities.

The main forms of organization of independent work of students are: classroom independent work under the guidance and supervision of a teacher (at lectures, practical, laboratory classes, etc. and consultations); extracurricular independent work under the guidance and control of the teacher (at consultations, during research work), extracurricular independent work - the planned educational, teaching and research, research work of students, performed outside the classroom on the instructions and with the methodological guidance of the teacher, but without his direct participation.

When performing independent work, students should rely mainly on the knowledge and skills gained in lectures, practical, laboratory classes, group and individual classes. This provides the necessary basis for further in-depth study of other disciplines. However, this knowledge needs to be activated.

The forms of independent work of students, provided for by the discipline, include:

- Preparation for practical, laboratory classes, group and individual classes.
- Independent study of educational issues.
- Preparation for the test / exam.

For self-preparation for practical, laboratory, group and individual classes, study of educational issues, preparation for tests and exams, the following sources are recommended:

- lecture notes and materials of practical, laboratory, group and individual lessons;
- educational (scientific) literature of the relevant profile;
- Internet resources.

At the beginning of the course, the teacher informs students about the forms, types and content of independent work, explains the requirements for the results of independent work, as well as the forms and methods of control and evaluation criteria.

According to the questions proposed by the teacher, the student studies the content of the recommended sections, chapters, paragraphs, textbooks, manuals and monographs; statistical collections; reviews; articles in periodicals. Normative legal acts are studied using the legal bases "Consultant - Plus" or "Garant", as well as Internet resources. The forms of control of such individual work are surveys in practical, group and individual classes, checking notes, conclusions.

Individual tasks of a creative orientation involve:

- preparation of analytical individual work on the subject proposed by the teacher. The completed task is evaluated taking into account the quality of the analysis, identification of factors, causes, conditions for changes, trends; substantiating conclusions; proposals put forward by the author;
- preparation for a discussion, for a business game, etc.;

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

The Guidelines for preparing for laboratory classes:

The main goal of laboratory classes is to test theoretical knowledge and teach manual skills. In the course of completing tasks, students develop practical skills in handling dental instruments, installations, equipment, which can be part of professional practical training, as well as research skills (observe, compare, analyze, establish dependencies, draw conclusions and generalizations, present the results).

Forms of organization of students in laboratory classes: frontal, group and individual.

With the frontal form of organizing classes, all students solve the same case problem at the same time.

In the group form of organizing classes, the same case-task is solved by a group of 2-5 people.

With an individual form of organizing classes, each student solves an individual task.

Grades for laboratory classes are taken into account as an indicator of the current progress of the student.

Guidelines for preparing for the exam

The exam aims to evaluate the work of a student for a certain course: the received theoretical knowledge and practical skills, the development of logical and creative thinking, the acquisition of independent work skills, the ability to analyze the knowledge gained and put into practice the solution of practical problems.

The exam is held in writing on tickets approved by the head of the department. The examination ticket includes a situational task and a manual skill. In the process of preparing for the exam, a pre-exam consultation was organized for all study groups. The result of the exam is expressed as "excellent", "good", "satisfactory".

In order to clarify the assessment, the examiner can ask no more than one or two additional questions that do not go beyond the requirements of the work program. An additional question is a question that is not related to the subject matter of the ticket questions. An additional question, as well as the main questions of the ticket, requires a detailed answer. In addition, the teacher can ask a number of clarifying and leading questions related to the subject of the main questions of the ticket. The number of clarifying and leading questions is not limited.

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

A practical lesson is one of the forms of educational work, which is focused on consolidating the studied theoretical material, its deeper assimilation and the formation of the ability to apply theoretical knowledge for practical, applied purposes. Particular attention in practical classes is paid to the development of educational or professional skills. Such skills are formed in the process of performing specific tasks - exercises, tasks, etc. under the guidance and control of the teacher.

The main goal of practical training is the formation of skills and the acquisition of practical experience aimed at the formation of competencies. The content of practical classes is solving various kinds of problems, including professional ones (analysis of production situations, solving situational production problems, demonstrating the development of professional functions during experiments, etc.), performing calculations, calculations, studying the dynamics of various indicators, working with software software, work with legal documents, instructional materials, reference books, etc.

To prepare for a practical lesson, the student needs to study the theoretical material on this topic, remember the basic definitions and terms, and analyze the lecture material. To consolidate the material covered, the student also needs to do homework in accordance with the assignment received in the previous practical lesson. In case of difficulties in its

implementation, it is recommended to seek help from the teacher at the time allotted for consultations.

Stages of preparation for a practical lesson:

- study of the theoretical material received at the lecture and in the process of independent work;
- study and analysis of the recommended literature;
- taking notes of what was read during the study of the recommended literature;
- doing homework;
- self-examination on control questions of the topic;
- formulation of opinions and preparation of questions for a practical lesson that arose during independent work.

Practical classes develop students' skills of independent work to solve specific problems.

11.2. Methodological instructive regulations for preparing for an examination

The exam aims to assess the development of competencies by students for a certain course: the theoretical knowledge gained, their strength, the development of logical and creative thinking, the acquisition of independent work skills, the ability to analyze and synthesize the knowledge gained and put into practice the solution of practical problems.

The exam is conducted on tickets approved by the head of the department. The examination paper includes two questions and a task(s). The wording of the questions coincides with the wording of the list of questions brought to the attention of students one month before the examination session. In the process of preparing for the exam, a pre-examination consultation is held for all study groups. The result of the exam is expressed as "excellent", "good", "satisfactory".

In order to clarify the assessment, the examiner may ask several additional questions that do not go beyond the requirements of the work program of the discipline (module). An additional question is a question that is not related to the subject matter of the ticket questions. An additional question, as well as the main questions of the ticket, requires a detailed answer. In addition, the teacher can ask a number of clarifying and leading questions related to the subject of the main questions of the exam ticket. The number of clarifying and leading questions is not limited.

A student is allowed to take the exam if he/she has completed in full the tasks provided for in the work program of the discipline (module). In case of missing any types of training sessions for good or bad reasons, the student independently performs and submits for verification in writing the general or individual tasks determined by the teacher. The theoretical course examination takes place in oral or written form (determined by the teacher) on the basis of a list of questions that reflect the content of the current work program of the academic discipline. Students are encouraged to:

- prepare for the exam by carefully reading all the exam questions;
- draw up a plan for answering each question, highlighting the key points of the material;
- Having studied several questions, discuss them with classmates.

The answer must be reasoned. The results of the exam are assessed as "excellent", "good", "satisfactory" or "unsatisfactory"

11.3. Methodological instructive regulations for preparing for a test

Preparing students for graduation includes:

- viewing the program of the training course;
- determination of the sources necessary for the preparation (textbooks, additional literature, Internet resources, etc.) and their study;
- use of lecture notes, practical training materials;

- teacher consultation.

Preparation for the test begins with the first lesson in the discipline, in which students receive a general attitude from the teacher and a list of basic requirements for current and final reporting. At the same time, it is important from the very beginning to systematically master the material, guided, first of all, by the list of questions for the test, to outline the sources that are important for solving educational problems.

A student who has completed in full the tasks provided for in the work program of the discipline (module) is allowed to pass. In case of missing any types of training sessions for good or bad reasons, the student independently performs and submits for verification in writing the general or individual tasks determined by the teacher. The test for the theoretical course takes place in oral or written form (determined by the teacher) on the basis of a list of questions that reflect the content of the current work program of the academic discipline. Students are encouraged to:

- prepare for the test by carefully reading the questions for the test;
- draw up a plan for answering each question, highlighting the key points of the material;
- Having studied several questions, discuss them with classmates.

The answer must be reasoned. The results of passing tests are evaluated by the mark "passed" or "failed".

11.4. Methodological instructive regulations for performing computational and graphical

The purpose of writing a medical history is professional and practical training of students, aimed at mastering the skills of working with medical records according to the rules of practical healthcare of the Russian Federation.

Tasks:

-development of skills for collecting and recording a complete medical history of the patient, including data on the state of the oral cavity, as well as recording the results of therapeutic, diagnostic, preventive, rehabilitation, sanitary and hygienic and other measures

-development of skills to use the generally accepted classification of disease codes for diagnosis, taking into account the international classification of diseases (ICD-10).

11.5. Methodological instructive regulations for performing a control work

The Control work is not provided.

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

The Writing term papers is not provided.

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 № | |
| | | | |