Federal State Autonomous Educational Institution of Higher Education

**I.M. Sechenov First Moscow State Medical University of the**

**Ministry of Health of the Russian Federation (Sechenov University)**

Approvedby Academic Councilof FSAEI HE First MSMU I.M. Sechenov of theMinistry of Health of the Russian Federation (Sechenov University)

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TRAINING PROGRAM OF THE DISCIPLINE

CLINICAL PRACTICE FOR AQUIRING PROFESSIONAL SKILLS AND EXPERIENCE IN PROFESSIONAL ACTIVITY (SPECIALTY)

«CLINICAL PRACTICE IN THERAPEUTIC DENTISTRY»

(*name of the discipline*)

the main professional educational program of higher education –

specialty program

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*indicates the code and name of the enlarged group of specialties (training areas)*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_31.05.03 Dentistry\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*indicates the code and name of the training area (specialty)*

2020-2021 year of admission

The complexity of the discipline \_\_\_\_\_\_\_\_\_\_3,0\_\_\_\_\_\_\_\_\_\_ credit unit

1. The purpose and objectives of the development of the discipline of practice in obtaining professional skills and experience “CLINICAL PRACTICE IN THERAPEUTIC DENTISTRY” (hereinafter - discipline).

The purpose of mastering the discipline: (participation in the formation of the respective competencies) the training of doctors who holds deep theoretical knowledge and ability to provide qualified dental care to patients with teeth diseases, periodontal and oral mucosa.

Objectives of the discipline: (to *know, to be able to, to master*).

- mastering the diagnostic methods used for examination of patients with diseases of teeth, periodontium and oral mucosa;

- knowing the indications for conservative treatment of patients with diseases of teeth;

- mastering the treatment planning for patients with diseases of teeth;

- formation of theoretical knowledge and manual skills in conservative treatment of patients with diseases of teeth hard tissues, pulp and periodontium;

- training in prophylaxis, diagnosis and treatment of complications occurring in treatment of teeth, pulp and periodontium diseases;

- getting of new theoretical knowledge in periodontology;

- knowing of actual aspects of periodontal diseases etiology and pathogenesis;

- mastering the basic diagnostic and treatment methods of periodontal diseases;

- knowing the main complications occurring during periodontal treatment and methods of their correction;

- knowing the main principles of organization of periodontology clinical department;

- knowing the main principles of asepsis, antisepsis and ergonomics in the department of periodontology;

- knowing of principles of filling out medical history forms during periodontal care;

- formation of manual skills, which are necessary for independent work of periodontologist in ambulant clinic, providing periodontal care according to principles of ethics and deontology;

- formation of skills in periodontal diseases treatment planning considering the surgical stage;

- knowing the actual methods of periodontal diseases surgical treatment;

- formation of theoretical knowledge and practical skills in conservative treatment of patients with diseases of oral mucosa in ambulant clinic;

- training in prophylaxis, diagnosis and treatment of complications occurring in treatment of oral mucosa diseases;

- mastering of examination and treatment of elderly patients.

***As a result of discipline mastering students must:***

***know:***

- development of oral and maxillofacial structures;

- classification, etiology, pathogenesis of diseases of teeth, periodontium and oral mucosa;

- examination, diagnosis, treatment and prophylaxis of caries and non-carious lesions;

- causes and prophylaxis of complications occurring during treatment of caries and non-carious lesions;

- errors in treatment of caries and non-carious lesions, causes, prophylaxis and correction;

- use of different types of restorative materials in treatment of caries and non-carious lesions

- classification, etiology and pathogenesis of endodontic diseases;

- methods of endodontic treatment;

- causes and prophylaxis of complications occurring during endodontic treatment;

- errors in endodontic treatment;

- histology and physiology of periodontium;

- classification, etiology, pathogenesis of periodontal diseases;

- examination of patients with periodontal diseases, diagnosis of periodontal diseases;

- principles and methods of complex periodontal diseases treatment, including conservative and surgical methods, rehabilitation and prophylaxis;

- doctor’s duties in emergency aid;

- principles of medical history filling;

- population groups for prophylactic examination;

- assessment of treatment quality;

- histology and physiology of oral mucosa;

- classification, etiology, pathogenesis of oral mucosa diseases;

- examination of patients with oral mucosa diseases, diagnosis of oral mucosa diseases;

- treatment methods and medication for oral mucosa diseases,

- errors and complications in oral mucosa treatment;

- oral health status of elderly and senile patients.

***Be competent to:***

- create an examination plan for patient with diseases of teeth, periodontium and oral mucosa;

- use additional methods of examination;

- confirm a diagnosis;

- create a treatment plan for patient with diseases of teeth, periodontium and oral mucosa;

- detect and correct errors and complications occurring during treatment of caries and non-carious lesions;

- treat caries and non-carious lesions using non-invasive, minimal-invasive and invasive methods;

- perform tooth restoration;

- detect the causes of endodontic diseases;

- create a treatment plan for patient with endodontic diseases;

- chose the method of root canal preparation and obturation;

- detect and correct errors and complications occurring during endodontic treatment;

- assess periodontal status of the patients with systemic diseases and pathological processes;

- interpret the laboratory results and instrumental tests;

- confirm the plan of patient examination including physicians’ consultations;

- confirm the optimal treatment plan, prescribe medication considering drugs pharmacodynamics, pharmacokinetics and adverse effects;

- provide the urgent care for patients with acute inflammatory process in periodontium;

- confirm the treatment plan for patients with oral mucosa diseases including physicians’ consultations;

- oral mucosa diseases management in different age patient;

- prevent oral mucosa diseases prevention, provide enlightenment work with patients;

- provide dental treatment for elderly patients.

***Demonstrate the following skills:***

- dental patient examination;

- non-invasive caries treatment (remineralizing therapy, infiltration);

- invasive caries treatment (cavity preparation and filling);

- non-carious lesions management;

- vital and non-vital bleaching;

- pulp-saving pulpitis management;

- non-vital pulp extirpation;

- vital pulp amputation and vital pulp extirpation;

- acute and chronic apical periodontitis management;

- endodontically treated teeth restoration;

*-* non-vital teeth bleaching;

- medical history taking from patient with periodontal disease;

- general health status assessment;

- laboratory tests and instrumental examination data interpretation;

- assessment of treatment and prevention efficacy in patients with periodontal diseases;

- dental deposits removal with manual instruments and special devices;

- oral mucosa lesions management including irrigation, application and injection of drug preparation;

- palpation of lymph nodes and oral mucosa;

- taking bioptic material for cytological and histological investigation (shave biopsy and punch biopsy).

**2. Place of the Discipline in the structure of University Educational Program**

**2.1. The Discipline is a part of Educational Unit С.3.18 Dentistry**

**2.2. For mastering the Discipline are necessary for knowledges, abilities and skills, obtained from previous disciplines:**

*- Human anatomy – head and neck anatomy*

*(discipline/practice)*

Knowledge: *anatomical, physiological, age- and gender-associated features of human organism, human body development and growth;*

Competences: *use educational and scientific literature for professional goals;*

Skills: *palpation of main bone structures, mussels and lymph nodes, description topography of human organs, vascular and nerve trunks;*

*-Histology, embryology, cytology – oral cavity histology*

*(discipline/practice)*

Knowledge: *cells’, tissues’ and organs’ structure, physiology and development; cells and tissues examination methods and techniques;*

Competences: *use educational and scientific literature for professional goals; use of laboratory equipment;*

Skills: *analyze histological and physiological condition of human cells, tissues and structures, assess results of cytological and histological studies;*

*-Operative dentistry*

*(discipline/practice)*

Knowledge: *dental office organization and equipment; basic methods of dental patient examination; dental instruments for examination, dental deposits removal, cavity preparation and filling and for endodontics; bases of cavities preparation, basis of endodontics;*

Competences: *use educational and scientific literature for professional goals; use of dental instrumentation and equipment;*

Skills: *dental deposits removal, carious cavity preparation and filling, root canal instrumentation and filling;*

2.3. Mastering the discipline is necessary for knowledge, abilities and skills, formed by following disciplines:

*- post-graduate course of restorative dentistry*

*(discipline/practice)*

Knowledge: *etiology, pathogenesis, treatment and prevention of main oral diseases;*

Competences: *use educational and scientific literature for professional goals;*

Skills: *modern treatment methods of caries, non-carious lesions, endodontic diseases, periodontal diseases and oral mucosa diseases*

3. Requirements for discipline mastering

The study of the discipline is aimed to form the following general professional competencies of the studentsОПК - 6, 8 and professional competencies 5,6 – diagnosis; 8,9 – treatment:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| п/№ | Competency Code | | Content of competence (or its part) | As a result of mastering/studying the discipline, students should: | | | | | | |
|  | |  |  | Know | | Be able to | | Possess knowledge(abililties) of | | Evaluation tools\* |
| 1 | | PC-1 | Ability to diagnose dental diseases in children and adults, to make a diagnosis. | General issues of organizing medical care for adults and children  Anatomy of the head, maxillofacial region, features of blood supply and innervation, structure of teeth. Histology and embryology of the oral cavity and teeth, the main disorders of embryogenesis. Anatomical and functional status and condition, features of the organs of the maxillofacial region, taking into account age. Normal and pathological physiology of the dentition, its relationship with the functional status of other body systems and the levels of their regulation. The role of oral hygiene, nutrition and the use of fluorides in the prevention of dental and periodontal diseases. The method of obtaining information of patient’s life (anamnesis vitae) and diseases (anamnesis morbi), complaints from children and adults (their legal representatives) with dental diseases. Goals and objectives of individual and professional oral hygiene. Hygienic indices and methods for their determination. Methods of examination and physical examination, features of clinical dental examination in children and adults with dental diseases. Clinical features, diagnostic methods, classification of diseases of the teeth, periodontium, oral mucosa, lips in children and adults. Clinical features, diagnostic methods, classification of diseases of the bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint in children and adults. Methods of laboratory and instrumental studies and for assessing the status of health, medical indications for conducting studies, rules for interpreting their results. Medical indications and contraindications for the use of additional examination methods. Medical products used in the provision of medical care to children and adults with dental diseases. International Statistical Classification of Diseases and Related Health Problems (ICD). The procedure for providing medical care to the adult population with dental diseases. The procedure for providing medical care to children with dental diseases. Clinical recommendations on the provision of dental care. Conditions requiring emergency medical attention and urgent medical care. Sanitary and epidemiological requirements and issues of organizing sanitary and anti-epidemic (preventive) measures in order to prevent the occurrence and spread of infectious diseases. | | Gather information about complaints, patient’s life (anamnesis vitae) and diseases (anamnesis morbi) in children and adults (their legal representatives) with dental diseases, identify risk factors and causes of dental diseases. Interpret information received from children and adults (their legal representatives) with dental diseases. Apply methods of visual inspection and physical examination of children and adults with dental diseases. Interpret the results of the visual inspection and physical examination of children and adults with dental diseases. Diagnose diseases of the pulp and periodontium, periodontal disease, oral mucosa and lips in children and adults with dental diseases. Diagnose in children and adults with dental diseases defects of teeth, dentition, dentoalveolar deformities and anomalies of teeth and jaws, complete absence of teeth and prerequisites for their development, injuries of teeth, bones of the facial skeleton and soft tissues of the maxillofacial region. To identify risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases. Formulate a provisional (preliminary) diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in children and adults with dental diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care. Refer children and adults with dental diseases for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of dental care, clinical guidelines, taking into account the standards of medical care. Refer children and adults with dental diseases for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care. Interpret and analyze the results of consultations by medical specialists for children and adults with dental diseases. Justify the necessity and scope of additional examinations of patients (including X-ray radiological methods). Interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods in children and adults with dental diseases, including X-ray data. Make a differential diagnosis of dental diseases in children and adults. Formulate a final diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD). To identify clinical symptoms of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care. | | Gather information about complaints, patient’s life (anamnesis vitae) and diseases (anamnesis morbi) in children and adults (their legal representatives) with dental diseases, identify risk factors and causes of dental diseases. Visual inspection and physical examination of children and adults with dental diseases.  Diagnostics in children and adults: - dental caries, - non-carious lesions, - pulp and periapical tissue diseases, - periodontal diseases, - diseases of oral and lip mucosa, - teeth defects, - dentition defects, - dentoalveolar deformities, - anomalies of teeth and jaws, - complete absence of teeth.  Identification of risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases.  Formulation of a preliminary diagnosis, drawing up a plan for conducting instrumental, laboratory, additional studies, consultations with specialist doctors in children and adults with dental diseases.  Referral of children and adults with dental diseases for instrumental, laboratory, additional studies, consultations of specialist doctors in children and adults with dental diseases in accordance with the current procedures for the provision of dental medical care to adults and children, clinical recommendations, taking into account the standards of medical care.  Interpretation of data from additional (laboratory and instrumental) examinations of patients (including radiological methods).  Making a preliminary diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD).  Making a differential diagnosis of dental diseases.  Making a final diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD).  Recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care. | | Interview |
| 2 | | PC-2 | Ability to prescribing and conducting treatment for children and adults with dental diseases, monitoring its effectiveness and safety. | The procedure for providing medical care to the adult population with dental diseases. The procedure for providing medical care to children with dental diseases. Clinical guidelines for providing medical care to patients with dental diseases.  Medical care standards. Methods of drug and non-drug treatment, medical indications for the use of medical devices in dentistry. Groups of drugs used to provide medical care in the treatment of dental diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen. Principles, techniques and methods of anesthesia, selection of the type of local anesthesia in the treatment of dental diseases. 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 of the teeth, pulp and periapical tissues, periodontium, oral mucosa and lips. Features of the provision of medical care in emergency forms for dental diseases. Materials science, technologies, equipment and medical products used in dentistry. Anatomy of the head, maxillofacial region, features of blood supply and innervation; the structure of the teeth; histology and embryology of the oral cavity and teeth, the main disorders of embryogenesis. | | Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care. Select and prescribe medicines, medical devices (including dental materials), dietary nutrition, therapeutic regimen for the treatment of children and adults with dental diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care. Determine medical indications and contraindications for local anesthesia techniques in the maxillofacial region. Perform local anesthesia (application, infiltration, conduction) in children and adults with dental diseases. Perform medical interventions, including therapeutic, in children and adults with dental diseases on an outpatient basis (excluding endodontic retreatment): individual training in oral and dental hygiene, selection of means and items for oral hygiene, controlled toothbrushing, professional oral and dental hygiene, injection of drugs in the maxillofacial area, local application of remineralizing drugs in the tooth area, deep fluoridation of tooth enamel, sealing the fissure of the tooth with a sealant, professional teeth whitening, grinding and polishing of hard tooth tissues, restoration of a tooth with a filling using dental cements, chemically curing materials, photopolymers, restoration of teeth with the destruction of the contact point, restoration of a tooth with a filling material using anchor pins, application of a devitalizing paste, pulpotomy (amputation of the coronal pulp), extirpation pulp, instrumental and medical treatment of a well-permeable (well-passable) root canal, temporary filling with a root canal material, filling the root canal of a tooth with paste, gutta-percha pins, removal of supragingival and subgingival dental deposits in the tooth area (manually), ultrasonic removal of supragingival and subgingival dental deposits in the tooth area, closed curettage for periodontal diseases in the tooth area, application of a therapeutic dressing for periodontal diseases in the area of one jaw, prescription of drug therapy for diseases of the oral cavity and teeth, the appointment of dietary therapy for diseases of the oral cavity and teeth. Perform medical interventions, including surgical ones, in children and adults with dental diseases on an outpatient basis (excluding the extraction of impacted and dystopic teeth): tooth extraction, temporary tooth extraction, permanent tooth extraction, opening and drainage of an odontogenic abscess. Carry out a phased sanitation of the oral cavity (excluding sanitation of the oral cavity in children under anesthesia). Perform medical interventions, including orthopedic, in adults with dental diseases on an outpatient basis (excluding prosthetics on dental implants, technologies for automated production of orthopedic prosthetic dentures, complete removable plate and clasp dentures): obtaining anatomical and functional impressions, restoration of a tooth with a crown, restoration of integrity of the dentition with fixed bridges, prosthetics with partial removable partial dentures, correction of a removable orthopedic dentures, removal of a fixed orthopedic dentures and appliances. Interpret the results of X-ray examination of the maxillofacial region. To consult children and adults with diseases of the mucous membrane of the mouth and lips, to determine indications for referral to a specialist doctors. Prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment. | | Development of a treatment plan for children and adults with dental diseases, taking into account the diagnosis, age and clinical symptoms in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care.  Providing emergency and emergency medical care to patients with dental diseases, in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care. Selection and prescription of medicines, medical devices (including dental materials) for the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care.  Prescribing dietary nutrition, health-improving regimen in the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care.  Performing medical interventions in children and adults with dental diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care.  Evaluation of the results of medical interventions in children and adults with dental diseases.  Selection of the type and conduct of local anesthesia (application, infiltration, conduction) in children and adults with dental diseases.  Evaluation of the effectiveness of the safety of the use of drugs, medical devices and non-drug treatment in children and adults with dental diseases.  Counseling children and adults with diseases of the mucous membrane of the mouth and lips, determining indications for referral for a consultation with specialist doctors.  Selection and prescription of medicines and medical devices, taking into account the diagnosis, age and clinical picture of a dental disease in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care.  Determination of methods of administration, regimen and dose of drugs.  Selection and prescription of non-drug treatment for children and adults with dental diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care.  Prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic procedures, the use of drugs and (or) medical devices, non-drug treatment at a dental appointment.  Providing medical care to children and adults in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the life of the patient in an emergency form.  The use of medicines and medical devices in the provision of medical care in an emergency form. | | Interview based on situational tasks (СЗ),  written testing(testing format: writing)) |
| 3 | | PC-7 | Ability to analyze medical and statistical information, maintain medical records, organize the activities of medical personnel. | Rules for registration and features of maintaining medical documentation and records, including in the form of an electronic document, in medical organizations of a dental profile. Rules of work in medical information systems and information and telecommunication network "Internet". Job responsibilities of medical workers in medical organizations of the dental profile.  Organization of the work of dental offices, equipment of dental offices, departments and clinics.  Labor protection, safety and fire safety requirements, emergency procedures. | Prepare work plan and work report.  Fill in medical documentation, including in the form of an electronic document, and control the quality of its maintenance.  To analyze the medical and statistical indicators of the incidence of dental diseases.  To use information systems in the field of healthcare and the information and telecommunications network "Internet" in their work.  Supervise the performance of the duties of the medical staff at their disposal.  Use in the work of personal data of patients and information constituting a medical secret. | | Drawing up a work plan and a report on their work.  Maintaining medical records, including in the form of an electronic document.  Monitoring the performance of official duties at the disposal of medical personnel.  The use of information systems in the field of healthcare and the information and telecommunication network "Internet".  Use in the work of personal data of patients and information constituting a medical secret. | | interview, testing | |

*\*types of assessment tools that can be used in the development of competencies: interviews, written or computer testing*

4. Sections of discipline and competence that are formed during their study

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| п/№ | CompetencyCode | | Name of the section of the discipline | Section content in didacticunits |
| 1 | ПК-1,2,7 | | Cariology and diseases of the hard tissue of teeth | Dental patient medical record, filling rules. Sections of the medical record.  Dental patient examination methods: basic and additional, special: index assessment of the condition of the teeth, periodontium.  Above- and subgingival deposits  Non-mineralized and mineralized dental deposits. Diagnosis of dental plaque. Removal of dental plaque. Enamel caries. Clinic, diagnosis, differential diagnosis, treatment.  Dentine caries. Clinical features, diagnosis, differential diagnosis, treatment.Caries of cementum.  Clinical features, diagnosis, differential diagnosis, treatment.  The choice of treatment methods for caries of enamel, dentin, cementum. Means for treatment of dental caries. Dental lesions occurring before and after teething. Clinical diagnosis, differential diagnosis, treatment, prophylaxis. Discoloration of the tooth. Teeth whitening. Dental restoration. Errors and complications in the treatment of diseases of hard tissues of the teeth. |
| 2 | ПК-1,2,7 | | Endodontics | Pulp hyperemia, acute pulpitis, chronic pulpitis. Clinical features diagnosis, differential diagnosis. Acute apical periodontitis. Clinical features diagnosis, differential diagnosis. Chronic apical periodontitis. Clinical features, diagnosis, differential diagnosis. Pulp-saving treatment methods: biological method (direct and indirect pulp capping), vital amputation. Indications and contraindications.  Pulpitis treatment methods that do not preserve pulp viability: vital and non-vital pulp extirpation. Endodontic techniques. Planning and preparing for treatment of the apical periodontitis. Root canal irrigation and disinfection. Temporary root canal filling. Antiseptics. Selection of filling material and root canal filling. Conservative surgical methods for the treatment of pulp and periodontal diseases: coronoradicular separation, hemisection, root amputation, apicoectomy, intentional replantation. Methods of treating teeth with complex root canal anatomy. Dental focus of infection. Systemic diseases, associated with dental focal infection. Clinical features, development, diagnosis and examination of patients. Indications and contraindications for the use of antibacterial therapy in the treatment of patients with diseases of pulp and periodontium. Treatment of high-risk (medically compromized) patients with pulp and periodontal diseases. Dental restoration after endodontic treatment. Use of posts. Bleaching of discolored teeth. Prevention of errors and complications in endodontics. Repeated endodontic treatment. |
| 3 | ПК-1,2,7 | | Periodontology | Features of the examination of patients with periodontal pathology.  Dental Indices for assessing: а) the severity of gingivitis, b) periodontitis.  Evaluation of bite and occlusion, supracontacts, teeth mobility. Additional diagnostic methods.  The essence of a comprehensive examination of a patient by a therapist, orthopedist, orthodontist, as well as doctors of other specialties. Periodontitis: etiology, pathogenesis, pathomorphology.  Clinical features, diagnosis, differential diagnosis.  Clinical features, diagnosis, differential diagnosis, pathogenesis. Periodontal diseases with progressive tissue lysis. Clinical features. Tumors and tumor-like periodontal diseases. Clinical features, differential diagnosis, general principles of treatment of periodontal pathology. Complex treatment of periodontal pathology. The use of therapeutic, orthopedic, orthodontic and physiotherapeutic methods in the complex treatment of periodontal diseases. Teeth splinting, occlusal adjustment in periodontology. The use of manual instruments, sound and ultrasound scalers for removal of dental plaque and calculus. Periodontal pockets curettage, photodynamic therapy. Classification of pharmacological preparations used in periodontics, indications, contraindications and side effects of pharmacotherapy of periodontal diseases. General principles for the surgical treatment of periodontal pathology. Basic/principal and additional methods of surgical interventions on periodontal. Indications and contraindications for surgical intervention. Criteria for the effectiveness of surgical intervention. Functional overload of periodontal tissues (trauma from occlusion) |
| 4 | ПК-1,2,7 | Diseases of the oral mucosa and red border of the lips. | | Injury due to mechanical, chemical, physical effects. Clinical features, diagnosis, differential diagnosis, treatment, prevention. Oral leukoplakia.  Viral diseases of the oral mucosa: clinical features, diagnosis, differential diagnosis, treatment. Bacterial infections: clinical features, diagnosis, differential diagnosis, treatment. Angioedema. Allergy to dental materials. Drug allergies. Erythema multiform. Chronic reccurent aphthous stomatitis. Clinical features, diagnosis, differential diagnosis, treatment. Anomalies and diseases of the tongue. Glossalgia, stomalgia. Clinical features, diagnosis, differential diagnosis, treatment. Damage of the oral mucosa due to diseases of the digestive, cardiovascular, endocrine systems, vitamin deficiencies, and hematological diseases. Clinical features, diagnosis, differential diagnosis, symptomatic treatment. Classification of oral precancerous diseases. Clinical features, diagnosis, differential diagnosis, prevention, clinical examination of patients. Age changes of hard tissues of teeth, periodontal and oral mucosa in healthy and medically compromised elderly people. Methods of diagnosis, prevention and treatment. |

5. Distribution of the complexity of the discipline and types of academic work by semester:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Typeofstudy | Complexity | | Complexity by semester (АH) | | | | | |
| volume in credit units (CU) | volume in academic hours (AH) |
| 5 | 6 | 7 | 8 | 9 | 10 |
| Classroomwork, including | 3,0 | 60 | - | - | - | - | - | 60 |
| Lectures (L) |  | - | - | - | - | - | - | - |
| Laboratoryworkshops (LW) |  |  | - | - | - | - | - | - |
| PracticalClasses (PC) |  |  | - | - | - | - | - | - |
| Clinical-practicalclasses(CPC) |  | 54 | - | - | - | - | - | 54 |
| Seminars (S) |  |  |  |  |  |  |  |  |
| Independent work of the student (IWS) |  | 30 | - | - | - | - | - | 30 |
| Intermediate certification/Midterm (classroom work) |  | 6 |  |  |  |  | - | 6 |
| Exam |  |  |  |  |  |  |  |  |
| TOTAL | 3,0 | 90 | - | - | - | - | - | 90 |

5.1. Discipline sections, types of educational work and forms of (current) control

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| p/№ | № of semester | Name of the discipline section | Types of academic work (in academic hours) | | | | | | | Evaluation Tools |
|  |  |  | L | LW | PC | CPC | S | IWS | Total |  |
| 1 |  | **Notcarriedout** |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |

5.2. Lecturedistributionbysemester

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| p/№ | Lecture topic titles | Volume in Academic Hours | | | | | |
|  |  | Semester | | | | | |
|  |  | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | **Notcarriedout** |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |

5.3. Distribution of laboratory workshops by semester

|  |  |  |  |
| --- | --- | --- | --- |
| p/№ | Laboratory work titles | Volume in Academic Hours | |
|  |  | Semester | Semester |
|  | **Not carried out** |  |  |
|  |  |  |  |
|  |  |  |  |
|  | TOTAL (total - Academic Hours) |  |  |

5.4. Distribution of topics of practical workshops by semester

|  |  |  |  |
| --- | --- | --- | --- |
| p/№ | Titles of the topics of practical workshops | Volume in Academic Hours | |
|  |  | Semester | Semester |
|  | **Not carried out** |  |  |
|  |  |  |  |
|  |  |  |  |
|  | TOTAL (total - Academic Hours) |  |  |

5.5. Distribution of topics of practical workshops

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| p/№ | Titles of the topics of practical workshops | Volume in Academic Hours | | | | | |
|  |  | Semester | | | | | |
|  |  | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Preparation of cavities in cases of caries and non-carious lesions |  |  |  |  |  | 5 |
| 2 | Filling of cavities in cases of caries and non-carious lesions |  |  |  |  |  | 5 |
| 3 | Anterior teeth restoration. |  |  |  |  |  | 5 |
| 4 | Posterior teeth restoration. |  |  |  |  |  | 5 |
| 5 | Vital bleaching. |  |  |  |  |  | 5 |
| 6 | Non-vital bleaching. Microabrasion. |  |  |  |  |  | 5 |
| 7 | Prearation and irrigation of root canals. |  |  |  |  |  | 5 |
| 8 | Temporary and permanent root canal obturation. |  |  |  |  |  | 5 |
| 9 | Professional oral hygiene using ultrasound and mechanical methods. |  |  |  |  |  | 5 |
| 10 | Drug therapy for various periodontal diseases. |  |  |  |  |  | 5 |
| 11 | Drug therapy for diseases of the oral mucosa. |  |  |  |  |  | 4 |

5.6. Distribution of seminar topics by semester

|  |  |  |  |
| --- | --- | --- | --- |
| п/№ | Titles of the seminar topics | Volume in Academic Hours | |
|  |  | Semester | Semester |
|  | **Not carried out** |  |  |
|  |  |  |  |
|  |  |  |  |
|  | TOTAL (total - Academic Hours) |  |  |

5.7. Distribution of student independent work (IWS) by its type and by semester

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| п/№ | Title of IWS \* | Volume in Academic Hours | | | | | |
|  | **Not carried out** | Semester | | | | | |
|  |  | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Medical record | - | - | - | - | - | 10 |
| 2 | Abstract | - | - | - | - | - | - |
| 3 | Work with presentations (computer) | - | - | - | - | - | 4 |
| 4 | Report | - | - | - | - | - | - |
| 5 | Preparation for workshops (practical classes) | - | - | - | - | - | 10 |
| 6 | Preparation for intermediate certification(midterm) | - | - | - | - | - | 6 |
|  | TOTAL (total - Academic Hours) | - | - | - | - | - | 30 |

*\*types of independent work: work with literary and other sources of information on the studied section, including an interactive (online) format, performing tasks stipulated by the work program (group and (or) individual) in the form of writing medical records, work with electronic educational resources posted on the educational portal of the University, etc.*

6. Evaluation tools for monitoring performance and the results of mastering (familiarization with) the discipline.

6.1. Forms of (current) control and intermediate certification \*, types of assessment tools

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | № of semester | Forms of control | Title of the section of the discipline | EvaluationTools | | |
| Types | Number of questions in the task | Number of test sets |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  | 10 | test | Сariology and diseases of hard tissues of teeth, endodontics, periodontology, diseases of the oral mucosa and lips vermilion zone. | tests | 10 | 4 |
|  | 10 | Interview | Intermediate certification (midterm) | Exam | 3 | 30 |

*\*forms of current control: control of the independent work of the student, control of familiarization (mastering) with the topic; intermediate certification forms: exam*

6.2. Examples of assessment tools:

Choose one correct answer

1. **Removal of mineralized dental plaque is carried out within:**
2. *Professional oral hygiene*
3. Individual oral hygiene
4. Remineralizing therapy
5. Fluoridation

Choose one correct answer

**2) The time for enamel ethcing is:**

1. 60 seconds
2. 40 seconds
3. 5 minutes
4. *15 seconds*
5. 30 seconds

Choose one correct answer

**3) For root canal disinfection the following solution should be used:**

1. Sodium bicarbonate 3%
2. *Sodium hypochlorite 3 %*
3. Hydrogen peroxide 30%
4. Eugenol
5. Formalin

Choose one correct answer

**4) How to eliminate discoloration of non-vital teeth:**

1. *Endodontic bleaching*
2. External bleaching
3. Infiltration with ICON
4. microabrasion
5. Oral debridement

Choose one correct answer

**5) Abnormal tooth mobility is a symptom of**:

1. *Severe marginal periodontitis*
2. Tooth attrition
3. Caries
4. Gingivitis
5. Acute pulpitis

Choose one correct answer

**6) Tooth wear grade 1 should be corrected with**

1. *Artificial crowns*
2. Telescopic crowns
3. Cast post-and-core with artificial crowns
4. Complete removable denture
5. Partial removable dnture

Choose one correct answer

**7) The history of present illness may be clarified from:**

1. Intraoral examination
2. Palpation method
3. Percussion method
4. *Patient interview*
5. X-ray examination

7. Educational, methodological and informational support of the discipline (print, electronic publications, the Internet and other network resources).

7.1. List of primary literature \*

|  |  |  |  |
| --- | --- | --- | --- |
| № | Name according to bibliographic requirements | Number of copies | |
| At the department | In the library |
| 1. | Ghom A. G. Textbook of oral medicine. Jaypee Brothers medical Publishers (P) ltd, 2014 | 1 | 19 |
| 2. | Coulthard P. Master dentistry. London: Churchill Livingstone, 2004. | 1 | 47 |

*\*the list of primary literature should contain textbooks published over the past 10 years (for the humanitarian, social and economic disciplines cycle over the past 5 years), study guides published over the past 5 years.*

7.2. List of additional literature\*

|  |  |  |  |
| --- | --- | --- | --- |
| № | Name according to bibliographic requirements | Number of copies | |
| At the department | In the library |
| 1. | Dental caries.Textbook. I.M. Makeeva, E.G. Margaryan, A.U. Turkina, N.Ye. Novozhilova, K.S. Babina, M.G. Arakelyan, A.V. Arzukanyan. Moscow: Sechenov University Press, 2020 — 54 р.: il. | 30 |  |
| 2. | Non carious lesions of dental hard tissues. Textbook. I.M. Makeeva, E.G. Margaryan, A.U. Turkina, N.Ye. Novozhilova, K.S. Babina, M.G. Arakelyan, A.V. Arzukanyan. Moscow: Sechenov University Press, 2020 — 44 р. : il. | 30 |  |

*\*additional literature contains additional materials to the main sections of the program of the discipline.*

7.3. The list of guidelines for classwork and independent work of students.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № | Title | Author (s) | Year, place of publication | Number of copies | |
| In the library | At the department |
| 1 | 2 | 3 | 4 | 7 | 8 |
|  | Oral Mucosa Diseases. | Ф.Ю.Даурова, И.М. Макеева, О.С. Гилева, соавт. | 2019 г., Москва, РУДН, 144 с. |  | 5 |
|  | Essentials of Operative Dentistry. | Ф.Ю.Даурова, З.С. Хабадзе, М.К. Макеева. | ГЭОТАР -Медиа, 2019 г., 512 с. |  | 5 |
|  | Periodontology. | Даурова Ф.Ю., М.К. Макеева, З.С. Хабадзе, соавт. | 2018, Москва РУДН, 156 с. |  | 5 |

7.4. The list of guidelines for tutors.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| п/№ | Title | Author (s) | Year, placeofpublication | Numberofcopies | |
| In the library | At the department |
| 1 | 2 | 3 | 4 | 7 | 8 |
|  | Sturdevant’s Art and science of operative dentistry. 6th edition | HO Heymann, EJ Swift, AV Ritter. | Mosby, 2012 . |  | 1 |
|  | Oral and maxillofacial diseases. 4th edition. | C. Sculli, S Flint. | CRC Press, 2010 |  | 1 |
|  | Textbook of oral medicine. | Ghom A. G. | Jaypee Brothers medical Publishers (P) ltd, 2014 | 19 | 1 |

8. The list of premises \* required for conducting classroom training of the discipline.

1. dental offices with dental units;

*\*specifically equipped rooms (classrooms, classrooms, laboratories, etc.) for conducting lectures, seminars, practical and clinical classes in the study of disciplines and practices, including:*

*rooms for work with patients who is receiving medical care.*

The list of equipment \* necessary for conducting classroom training of the discipline.

1. set of dental instruments;

2. dental materials;

3. digital intraoral radiographic system (RVG-S)

4. negatoscopes

\* *laboratory, instrumental equipment (indicate which)*

9. Interactive form of educational technologies used in the educative process of the discipline \*: no

1.

2.

3.

*\*simulation technologies: role-playing and business games, training, game design, computer simulation, situation-case, etc .; non-simulation technologies: lecture (problematic, visualization, etc.), discussion (with and without brainstorming), internship, programmed training, etc.*\_\_\_\_\_\_\_\_ % of interactive lessons from the volume of classroom work.

Examples an interactive forms of educational technologies:

9.1. Electronic educational resources used in the process of teaching of the discipline

|  |  |  |
| --- | --- | --- |
| № п/п | Title and brief description of the electronic and information educational resources (electronic publications and information databases) | The number of copies, access points |
| *1* | *3* |  |
| 1 | Electronic library of the 1st MGMU  of I. M. Sechenov:http://www.scsml.rssi.ru; |  |
| 2 | Scientific electronic library:http://elibrary.ru/defaultx.asp; |  |
| 3 | http://www.med-edu.ru/ |  |
| 4 | <http://www.rusmedserv.com> |  |
| 5 | <http://www.stomfak.ru> |  |

Training program is developed by therapeutic dentistry department

Разработчики:

Chief of the department, professor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ I.M. Makeeva

Head of teaching, associated professor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ I.A.Sochova

Associated professor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ N.N. Vlasova

Approved at the session of the therapeutic dentistry department

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Chief of the department, professor I.M. Makeeva

*signature*

Approved by educational & methodical council of the dental faculty

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EMC chairman \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ O.I.Admakin