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)**

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

«\_\_\_\_\_\_»\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_20\_\_\_\_ Protocol № \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TRAINING PROGRAM OF THE DISCIPLINE

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

«CLINICAL PRACTICE IN GENERAL 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)*

2019-2020 year of admission

The complexity of the discipline \_\_\_\_\_\_\_\_\_\_6,0\_\_\_\_\_\_\_\_\_\_ credit unit

1. The purpose and objectives of the development of the discipline of practice in obtaining professional skills and experience “CLINICAL PRACTICE IN GENERAL 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 in the examination of patients with teeth diseases, periodontal and oral mucosa;

- mastering of indications for therapeutic, surgical and orthopedic treatment of patients with dental diseases;

- development planning orthopedic surgical and therapeutic treatment of patients with hard teeth tissues diseases;

- familiarization of students with the principles of prevention of nosocomial infections in medical institutions, the creation of favorable conditions for the patients’ stay and working conditions for medical personnel;

- the formation of practical skills in therapeutic, surgical and orthopedic treatment of patients with diseases of hard tissues of teeth, pulp and periodontium;

- mastering by students of diagnostic methods in the examination of patients with various dental diseases, injuries, defects and deformations of the tissues of the maxillofacial area;

- training in the prevention, detection and elimination of complications in the treatment of dental diseases, pulp and periodontium;

- mastering the basics of the diagnosis and treatment of periodontal diseases;

- familiarization with the complications in the treatment of periodontal diseases and with methods for their elimination;

- familiarization with the principles of organization and operation periodontology clinic;

- familiarization with the principles of infection prevention at a periodontal appointment, creating favorable conditions for patients and working conditions of medical personnel;

- learning the procedure of registration and management of medical documentation of patients at the periodontal appointment;

- mastering practical skills essential for periodontologist of a primary dental clinic to provide medal care to the patients with periodontal disease basing on the principles of medical ethics and deontology;

**-** the formation of skills in drawing up a comprehensive treatment plan for periodontal diseases, taking into account the therapeutic, orthopedic and surgical stages by students;

- familiarization with modern methods of therapeutic, orthopedic and surgical treatment of periodontal diseases;

- mastering the methods of local anesthesia during therapeutic, surgical and orthopedic manipulations in the oral cavity;

- improvement of manual skills of tooth extraction and treatment of possible complications;

- mastering by students of methods of dental surgical treatment, methods of prevention of complications during treatment, as well as rehabilitation of patients with diseases in the maxillofacial area while providing outpatient dental care;

- familiarization with infection control measures in medical institutions;

- the formation of practical skills in therapeutic and surgical, orthopedic treatment of patients with diseases of the oral mucosa in dental clinics by students;

- mastering the prevention and elimination of possible complications in the treatment of diseases of the oral mucosa

- mastering by students of the features of examination and dental treatment of elderly and senile patients.

***As a result of mastering the discipline, student must:***

***Know:***

- normal development of the dentition;

- examination methods to diagnose diseases of the teeth, bones and soft tissues of the mouth, face and neck;

- substantiation of patient management tactics, treatment and prevention methods, determination of the prognosis of diseases of teeth, bones and soft tissues of the oral cavity, face and neck;

- the main methods of surgical treatment for teeth diseases, bones and soft tissues of the oral cavity, face and neck;

- methods of examination, diagnosis, prevention, as well as therapeutic, surgical and orthopedic treatment of pathology of the oral cavity;

- causes of complications in therapeutic, surgical and orthopedic practice in the treatment of dental caries, non-carious lesions of hard tissues of teeth and methods for their prevention;

- errors arising in the treatment of dental caries, non-carious lesions of hard tissues of teeth, methods for their prevention and elimination;

- the use of filling materials in the treatment of caries and non-carious lesions of hard tissues of teeth;

- endodontic treatment methods of patients with pulp diseases and periodontium;

- causes of complications in therapeutic practice in the treatment of patients with diseases of the pulp and periodontium and ways to prevent them;

- errors in the treatment of pulp and periodontitis, and methods for their prevention and elimination;

- tactics of clinical examination of patients with periodontal pathology, diagnostic algorithm and examination standards when conducting follow-ups/dispensary observations for patients suffering from periodontal diseases;

- principles and methods of complex outpatient treatment, including conservative measures and periodontal surgery, rehabilitation and prevention of periodontal diseases;

- emergency duties and rights of a doctor;

- medical records and other documents;

- patients who are sublects for mandatory follow up;

- standards for medical examination;

- control of thequalityof the treatment;

- reasons of complications in therapeutic practice in the treatment of diseases of the oral mucosa and methods for their prevention;

- the main errors that occur in the treatment of diseases of the oral mucosa, and methods for their prevention and elimination;

-condition of the teeth and mucous membrane of the prosthetic bed;

- an algorithm for planning and conducting stages of prosthetics;

- modern materials used in orthopedic dentistry;

- indications and contrindications for single artificial crowns, bridges, and removable dentures;

- periodontal charting;

- indications, prosthetic techniques for orthopedic treatment

- the stages of patient psychological adaptation to the rehabilitation with complete removable dentures;

- obtaining dental impressions with alginate and silicon-based materials;

- manufacturing direct and indirect post-cores;

- teeth preparation for various prosthetic restorations;

- central occlusion determination;

- central relation determination;

- removal of single crowns and bridge prosthesis;

- providing gingival retraction;

- Features of the dental status of patients of the elderly and senile age.

***To be able to:***

- make a plan and examine a patient with diseases of teeth, periodontium and oral mucosa;

- use additional research methods to clarify the diagnosis;

- to diagnose;

- plan the treatment of dental caries, non-carious lesions of hard tissues of teeth;

- identify, eliminate and take measures to prevent complications in the treatment of dental caries, non-carious lesions of hard tissues of teeth;

- treat caries and non-carious lesions using non-invasive and invasive, direct and indirect methods and restore the shape and function of the patients’ tooth;

- To determine the etiological factors for pulpal and periodontal disease development;

- treatment plan for patients with diseases of pulp and periodontium;

- to choose the management strategy fo pulpal and periodontal disease;

- identify, eliminate and take measures to prevent complications during treatment of pulpal and periodontal disease;

- evaluate functional changes in periodontal tissues in various somatic diseases and pathological processes;

- interpret the results of laboratory and instrumental examination methods;

- make the plan for examination and treatment of the patient, taking into account the involvement of other related specialists

- to chose the appropriate conservative therapy, prescribe medications considering pharmakokinetics, phapmakodynamics, and adverse events prevention;

- provide emergency care in the treatment of acute processes in periodontology;

- provide topical, infiltration anathesia, and nerve blocks;

- carry out resuscitation measures;

- carry out the removal of various groups of teeth;

- to provide surgical drainage to abscesses;

- to provide partial or complete removal of soft tissue overlying partially erupted tooth;

- to manage alveolitis;

- remove small benign soft tissue tumors;

- providing salivary duct bougie (dilation);

- prescribe doses of drugs according to the age of the patient

- prescribing vitamins and immunomodulators

- carry out diagnostics and differential diagnostics for dental diseases, bones and soft tissues of the oral cavity, face and neck;

- evaluate the results of various research methods for patients with diseases of the teeth, bones and soft tissues of the mouth, face and neck;

- to assess panoramic radiographs, orthopantomographs, intraoral radiographs, and computed tomography images;

- draw up a comprehensive treatment plan for a patient with diseases of the oral mucosa with the involvement of other specialists;

- treat diseases of the oral mucosa in patients of different ages;

- to carry out preventive measures and educational work among patients with diseases of the oral mucosa;

- obtaining dental impressions with alginate and silicon-based materials;

- manufacturing direct and indirect post-cores;

- teeth preparation for various prosthetic restorations;

- central occlusion determination;

- central relation determination;

- removal of single crowns and bridge prosthesis;

- providing gingival retraction;

- conduct dental treatment of elderly and senile patients;

***Demonstrate ability and readiness (to master the techniques):***

- examination methods of a dental patient;

- remineralizing and infiltration methods for white spot caries lesions treatment;

- methods of treating patients with dental caries;

- methods of treating patients with diseases of hard tissues of teeth of non-carious origin;

- methods of vital and non-vital teeth bleaching;

- vital pulp therapies;

- non-vital pulp extirpation method;

- vital pulp amputation and extirpation;

- management of acute and chronic apical periodontitis;

- methods of root-filled teeth restoration;

*-* methods of non-vital teeth bleaching;

- the correct management of medical records of a patient with periodontal pathology;

- general health assessments;

- interpretation of the results of laboratory, instrumental diagnostic methods;

- assessment of the quality of the provision of medical, diagnostic and rehabilitation and preventive care to patients suffering from periodontal pathology;

- manual and hardware methods for removing dental plaque;

- methods for performing applications, irrigation, cleaning (washing), injections under the elements of the lesion;

- possession of the skills of competent and free use of knowledge and ideas about the current level of specialty « Surgical dentistry » to ensure their successful professional activities;

- the main methods of surgical treatment of diseases of the teeth, bones and softtissues of the oral cavity, face and neck;

- possession of skills to address patient hospitalization;

- possess skills in palpation of regional lymph nodes, determination of element of oral mucosa lesions;

- method of material sampling for cytological examination (swab, imprint).

- possess various methods of diagnosis and orthopedic treatment of patients with defects of the coronal parts of the teeth, partial and complete absence of teeth;

- determine indications and contraindications for orthopedic treatment.

 2. The place of the discipline in the structure of the Educational Programm of Higher education of the University

 2.1. The discipline belongs to the academic cycle (section) С.3.18 Dentistry

2.2. To study the discipline, you need the knowledge, skills and abilities formed by previous disciplines/practices:

*- Human anatomy - anatomy of the head and neck*

*(name of the discipline / practice)*

Knowledge: *anatomical and physiological, age-sexual and individual features of the structure and development of the human body;*

Competencies: *use educational, scientific, popular science literature, the Internet for professional activities;*

Skills: *to be able to palpate the main bony sctructures and explain the topography of the organs and main neuro-vascular elements;*

*-Histology, embryology, cytology-histology of the oral cavity*

*(name of the discipline / practice)*

Knowledge: *basic laws of development and vital activity of the human body based on the structural organization of cells, tissues and organs;*

*histofunctional features of tissue elements; methods for their study;*

Competencies: *use educational, scientific, popular science literature, the Internet for professional activities; use laboratory equipment;*

Skills: *analyze the histo-physiological states of various cellular, tissue and organ structures of individual;*

etc….

*-Propaedeutic Dentistry*

*(name of the discipline / practice)*

Knowledge: *organization of a dental office, basic methods of examination of a patient (dental), dental tools, basics of caries cavity preparation, basics of endodontics, instruments for oral debridement;*

Skills: *use educational, scientific, popular science literature, the Internet for professional activities; use dental instruments;*

Abilities (acquired habits): caries cavity preparation
*, removal of mineralized dental deposits, chemomechanical preparation of the root canals ,* etc.

 2.3. The study of the discipline is necessary for the knowledge, skills and abilities formed by subsequent disciplines / practices:

*- clinical residency in therapeutic, surgical, orthopedic dentistry and general dentistry*

*(name of the discipline / practice)*

Knowledge: *questions of etiology, pathogenesis, treatment and prevention of major diseases of the oral organs\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Skills: *use scientific, popular science literature, the Internet for professional activitie\_\_\_\_\_\_\_\_\_\_*

Abilities (acquiredhabits):*of modern methods of diagnosis and treatment of diseases of teeth, periodontal tissues and oral mucosa \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Practice for obtaining professional skills and experience of professional activity “General dentistry”*

*(name of the discipline / practice)*

 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 | ОПК-6 | Willingness to manage/maintain medical records (ОПК-6); | Basic regulatory and technical documents for medical records, legal and insurance medicine;rules for filling out medical records | Use computer equipment when working with medical documents, when working on the Internet for professional activities. | Methods of maintaining/management of medical records; filling out a medical record of a (dental) patient. | Interview |
| 2 | ОПК-8 | Readiness to use medical drugs and other substances and their combinations in solving professional problems (ОПК-8) | Classification and main characteristics of drugs, pharmacodynamics, pharmacokinetics, indications and contraindications for the use of drugs and their side effects. | To analyze the effect of drugs by their pharmacological properties for therapeutic and dental treatment of patients; write out prescriptions. | Own the basics of prescribing medical drugs in the course of treatment, rehabilitation and prevention of various dental diseases. | Interview based on situational tasks (СЗ),written testing(testing format: writing)) |
| 3 | ПК-5 | readiness to collect and analyze complaints of the patient, his/her medical history, examination results, laboratory, instrumental, pathological, anatomical and other studies in order to recognize the state or establish the presence or absence of a dental disease | basic and additional examination methods | conduct and interpret the data of the survey, examination, clinical examination, the results of modern laboratory and instrumental studies, morphological analysis of biopsy, surgical and sectional material | methods of the main and additional examination of the patient | interview, testing |
| 4 | ПК-6 | the ability to determine the main pathological conditions, symptoms, syndromes of dental diseases of the patient and their nosological forms, in accordance with the International Statistical Classification of Diseases and Problems Related to Health (ICD)  | pathological conditions, symptoms and syndromes of dental diseases. | to identify patients' main pathological symptoms and syndromes of diseases, by using knowledge of the fundamentals of biomedical and clinical disciplines. | main diagnostic measures to identify pathological conditions and dental diseases | interview, testing |
| 5 | ПК-8 | to determine the tactics of managing patients with various dental diseases; | basic principles and methods of treating dental diseases | draw up a comprehensive treatment plan, select the necessary medications, evaluate the effectiveness and safety of the treatment | Dental treatmentmethods | interview, testing |
| 6 | ПК-9 | readiness for management and treatment of patients with dental diseases on an outpatient and inpatient basis | basic / principle methods of treating dental diseases | Treat dental diseases | methods for treating diseases of hard tissues of teeth, techniques for endodontic treatment of pulpand periodontal diseases, methods for treating periodontal diseases and diseases of the oral mucosa.Possess skills of clinical analysis and forecasting during surgery in the maxillofacial region;To determine the most appropriate surgical procedures and carry them out to the required extent. | 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 didactic units |
| 1 | ПК-5,6,8,9ОПК-6,8 | 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 depositsNon-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-5,6,8,9ОПК-6,8 | 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-5,6,8,9ОПК-6,8 | 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-5,6,8,9ОПК-6,8 | 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 | ПК-5,6,8,9 | Simple and complex prosthetics for dentition defects. | Prosthetic treatment of defects in hard tissues of teeth with onlays, prosthetic treatment of defects in hard tissues of teeth with artificial crowns, bridge prostheses. Prosthetic treatment of defects in hard tissues of teeth with post-cores. |
| 6 | ОПК-6,ПК-5 | Organization of surgical dental care | Organization of the workplace of a dental surgeon at an outpatient appointment. Filling in medical documentation (accounting and reporting). Filling out a medical record of a patient (dental). Clinical examination of surgical patients (dental).Expert assessment of disability of the surgical patients (dental). |
| 7 | ПК-5 | Examination of dental surgical patients | Methods of examination of patients in surgical dentistry.Clarification of complaints, taking history of diseases, assessment of the general condition of the patient. Clinical examination (examination, palpation, percussion). Investigations and imaging.Evaluation of laboratory tests results. |
| 8 | ОПК-8,ПК-9 | Anesthesia during operations on the face and in the oral cavity. | General and local anesthesia. Providing infiltration anesthesia and nerve blocks. Anesthesia during surgery for inflammatory diseases of the teeth. Premedication in surgical dentistry. Sedation in surgical dentistry. Treatment of local and general complications of local anesthesia |
| 9 | ОПК-8,ПК-5,8,9 | First aid conditions | General anesthesia complicationsAsphyxia. Bronchoconstriction. Fainting. Collapse. Hypertensive crisis. Angina pectoris. Myocardial infarction.Stroke. Convulsions. Hypo- and hyperglycemic coma. Hives. Quincke's edema. Medicinal anaphylactic shock. Clinical death. CPR. |
| 10 | ОПК-8,ПК-5,8,9 | Tooth extraction operation. | Tooth extraction techniques. Complications.Features of the removal of various groups of teeth. Sophisticated methods of removing teeth and roots. Intraoperatice complications. Postoperative complications: alveolitis, neuritis, local osteomyelitis, sharp edges of the tooth socket. |
| 11 | ОПК-8,ПК-5,8,9 | Outpatient Dental Surgery | Tumors and tumor-like formations. Periodontal diseases. Dental implantation. Removal of small benign tumors of the oral mucosaSurgical removal of odontogenic cysts, retention cysts.Tooth preserving operations. Surgical treatment of periodontal disease. Surgical approach in case of aberant tongue and lip frenulum, vestibuloplasty.Dental implantation. Jaw bone grafting using osteoplastic materials |
| 12 | ОПК-8,ПК-5,8,9 | Maxillofacial injury | Bone fractures of the facial skeleton Bone fractures of the facial skeleton: diagnostics, first aid, transport immobilization, referral to hospitalization, patient routing.Medical treatment and physiotherapy for patients with maxillofacial trauma after discharge from the hospital. |
| 13 | ОПК-8,ПК-5,8,9 | Inflammatory diseases of the maxillofacial region. | Surgical treatment of acute and chronic periodontitis. Apicoectomy, root amputation, hemisection, intentional replantation. Periostitis: surgical treatment and systemic therapy. Acute and chronic osteomyelitis diagnosis, drug treatment. Abscesses and cellulitis of the maxillofacial region: diagnosis, routing. Inflammatory complications of third molar impaction. Surgical treatment. Acute and chronic lymphadenitis: diagnosis, drug and physiotherapy treatment. Acute and chronic odontogenic maxillary sinusitis diagnosis, drug therapy and physiotherapy. Acute and chronic sialoadenitis, sialolithiasis: diagnostics, treatment, routing. General complications of purulent-inflammatory processes of the maxillofacial region. Fundamentals of diagnosis, prevention, treatment principles, indications for hospitalization of patients, routing. |

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

|  |  |  |
| --- | --- | --- |
| Type of study | Complexity | Complexity by semester (АЧ) |
| volume in credit units (CU)  | volume in academic hours (AH) |
| 5 | 6 | 7 | 8 | 9 | 10 |
| Classroomwork, including | 5,0 | 120 | - | - | - | - | - | 120 |
| Lectures (L) |  | - | - | - | - | - | - | - |
| Laboratory workshops (LW) |  |  | - | - | - | - | - | - |
| PracticalClasses (PC) |  |  | - | - | - | - | - | 114 |
| Clinical-practical classes(CPC) |  | - | - | - | - | - | - |  |
| Seminars (S) |  |  |  |  |  |  |  |  |
| Independent work of the student (IWS) |  | 60 | - | - | - | - | - | 60 |
| Intermediate certification/Midterm (classroom work) | 1,0 | 6 |  |  |  |  | - | 6 |
| Exam |  |  |  |  |  |  |  |  |
| TOTAL | 6,0 | - | - | - | - | - | - | 180 |

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 and filling of cavities in cases of caries and non-carious lesions |  |  |  |  |  | 5 |
| 2 | Anterior and posterior teeth restoration. |  |  |  |  |  | 5 |
| 3 | Vital and non-vital bleaching. Microabrasion. |  |  |  |  |  | 5 |
| 4 | Preparation and irrigation of root canals. |  |  |  |  |  | 5 |
| 5 | Temporary and permanent root canal obturation. |  |  |  |  |  | 5 |
| 6 | Professional oral hygiene using ultrasound and mechanical methods. |  |  |  |  |  | 5 |
| 7 | Drug therapy for various periodontal diseases. |  |  |  |  |  | 5 |
| 8 | Drug therapy for diseases of the oral mucosa. |  |  |  |  |  | 5 |
| 9 | Organization of the workplace of a dental surgeon at an outpatient appointment. Maintaining medical documentation (accounting and reporting). Filling out a medical record of a patient (dental). Clinical examination of surgical patients (dental).Expert assessment of disability of the surgical patients (dental). |  |  |  |  |  | 5 |
| 10 | Methods of examination of patients in surgical dentistry clinic.Clarification of complaints, taking history of diseases, assessment of the general condition of the patient. Clinical examination (examination, palpation, percussion). Additional examination methods.Evaluation of laboratory research. |  |  |  |  |  | 5 |
| 11 | Planning of anesthesia for operations on the face and oral cavity. Determination of indications and contraindications for general anesthesia during surgical interventions in the maxillofacial region. The technique of infiltration anesthesia and nerve blocks. Aneshesia for surgical interventions in cases of inflammatory dental diseases.Premedication in surgical dentistry. Sedation in surgical dentistry. Treatment of local and general complications of local anesthesia |  |  |  |  |  | 5 |
| 12 | Asphyxia. Bronchoconstriction. Fainting. Collapse. Hypertensive crisis. Angina pectoris. Myocardial infarction. Stroke. Convulsions. Hypo- and hyperglycemic coma. Hives. Quincke's edema. Medicinal anaphylactic shock. Clinical death. CPR. |  |  |  |  |  | 5 |
| 13 | Features of the extraction of various groups of teeth. Sophisticated methods of teeth and roots removal. Intraoperative comlications: crown or root fracture, trauma to adjacent tooth, alveolar wall fracture, fracture of maxillary tuber, trauma of the soft tissues, fracture of the mandible, fracture of the instrument, dislocation of the temporomandibular joint, subcutaneous or submucosal emphysema, bleeding, maxillary sinus perforation, inferior alveolar nerve trauma. Postoperative complications: alveolitis, neuritis, socket osteomyelitis, sharp edges of the extraction socket. |  |  |  |  |  | 5 |
| 14 | Removal of small benign tumors of the oral mucosa.Removal of apical and periodontal cysts, retention cysts of oral mucosa. Vestibuloplasty, frenuloplasty.Dental implantation. Jaw bone grafting using osteoplastic materials. |  |  |  |  |  | 5 |
| 15 | Surgical treatment of acute and chronic periodontitis. Endodonic surgery: apicectopmy, cystectomy, cystotomy, cystostomy, root amputation, hemisection, replantation. Odontogenic periostitis: surgical treatment and drug therapy. Odontogenic osteomielitis: diagnosis, drug therapy. Facial abscess and cellulitis: diagnosis, management . Complicated eruption of third molars (pericoronitis): Surgical treatment. Acute and chronic lymphadenitis of maxillo-facial region: diagnosis, drug treatment and physiotherapy . Acute and chronic maxillary sinusitis: diagnosis, drug therapy and physiotherapy. Acute and chronic sialadenitis, salivary stones: diagnosis, treatment, routing.Systemic complications of odontogenic infection. Fundamentals of diagnosis, prevention, treatment principles, indications for hospitalization of patients, routing. |  |  |  |  |  | 5 |
| 16 | Bone fractures of the facial skeleton: diagnosis, first aid, transport immobilization, referral to hospitalization, patient routing.Medical treatment and physiotherapy for patients with maxillofacial trauma after discharge from the hospital. |  |  |  |  |  | 5 |
| 17 | Types of dental inlays: cast metal, ceramic, zirconia. Manufacturing, clinical steps.Cast post-and-core: indications, clinical steps, manufacturing. |  |  |  |  |  | 5 |
| 18 | Types of artificial crowns. Cast metal crowns: manufacturing, clinical steps.  |  |  |  |  |  | 5 |
| 19 | Artificial crowns: full-ceramic, ceramic fused to metal, zirconia. Main properties, manufacturing, clinical steps. |  |  |  |  |  | 5 |
| 20 | Prosthetic rehabilitation of patients with partial edentulism with fixed dental bridges. |  |  |  |  |  | 5 |
| 21 | Dental impressions and impression materials. |  |  |  |  |  | 4 |
|  22 | Articulation of mandible. Types of occlusion. Measurement of lower face height and fixation of central occlusion in patients with partial and full edentulism.  |  |  |  |  |  | 4 |
| 23 | Partial removable dentures, cast removable dentures, complete removable dentures in patients with partial and full edentulism. |  |  |  |  |  | 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) | - | - | - | - | - | 10 |
| 4 | Report | - | - | - | - | - | - |
| 5 | Preparation for workshops (practical classes) | - | - | - | - | - | 20 |
| 6 | Preparation for intermediate certification(midterm) | - | - | - | - | - | 20 |
|  | TOTAL (total - Academic Hours) | - | - | - | - | - | 60 |

*\*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. Organization of surgical dental care. Examination of dental surgical patients. Outpatient dental surgery. Inflammatory diseases of the maxillofacial region. Trauma of the maxillofacial region. Prosthetic rehabilitation in simple cases. Prosthetic rehabilitation in complicated cases. Full edentoulism.  | tests | 10 | 4 |
|  | 10 | Interview | Intermediate certification (midterm) | Exam | 2 | 50 |

*\*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. Материально-техническое обеспечение дисциплины.

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 MGMUof 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> |  |

The working program of the discipline was designed by: Department of Therapeutic Dentistry, Department of Surgical Dentistry, Department of Orthopedic Dentistry.

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from «\_» \_\_\_\_\_\_\_\_\_\_. Record/Protocol № \_\_\_

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Approved by Dentistry Institute Education Advisory board «\_\_\_»\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_20\_\_\_\_\_\_г. Record/Protocol № \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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