

Federal State Autonomous Educational Institution of Higher Education
«Peoples' Friendship University of Russia»

Medical Institute

Recommended MCSD

SYLLABUS
(STUDY GUIDE)

Subject

Dentistry

Recommended for the direction of training (specialty)

31.05.01 General Medicine

Program (profile, specialization)

General Medicine

1. Aims and objectives of the discipline:

Purpose development of discipline: mastering student the theory and practice of application of methods prevention hard dental tissue diseases of the oral mucosa and periodontal tissues among the various population groups, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients).

The objectives discipline are:

- familiarity with the basic methods of examination in the mouth.
- identification of the major dental diseases
- identification and elimination of risk factors for dental diseases;
- the development of the students methods of organization and implementation of preventive measures among the various population groups in the individual and group level, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients);
- development of students of dental education methods and implementation of motivating people to maintain oral health;

2. Place the discipline in the structure OP HE:

Discipline *Dentistry* refers to the basic part of Block 1 of the curriculum.

Table №1 given preceding and following discipline aimed at forming competence discipline in accordance with the matrix competences OP HE.

Table 1. Preceding and following the discipline aimed at creating competencies

| № | Code and name of the competence | Preceding disciplines | Following disciplines |
|--------------------------------|---------------------------------|---|------------------------------------|
| Professional competence | | | |
| | PC-2 | Topographic anatomy and operative surgery Pathological anatomy, clinical pathological anatomy otorhinolaryngology Propedevtika Internal Medicine | Faculty therapy Faculty surgery |

3. Requirements to results of the development of the discipline.

The process of studying the discipline is aimed at the formation of the following competencies:

| Code of the competence | Title of the competence | Индикаторы достижения компетенций |
|------------------------|-------------------------|-----------------------------------|
|------------------------|-------------------------|-----------------------------------|

| | | |
|------|---|--|
| PC-2 | Being able to examine a patient in order to determine a diagnosis | <p>PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.</p> <p>PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> |
|------|---|--|

As a result of study of discipline a student must

Know:

- tasks of professional activity;
- etiological factors that lead to the development of disease periodontal carious and non-carious lesions hard tissues of the teeth, oral mucosa diseases;
- the value of oral hygiene in the prevention of dental diseases and particularly hygienic education in different age groups, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients);
- means of oral care and the requirements for them;
- the purpose, methods and means of dental education, especially the meeting among different population groups;
- principles of epidemiological survey of the dental population: the goals, objectives, milestones;
- classification of dental hard tissue diseases of the oral mucosa and periodontal tissues;
- methods for diagnosing dental hard tissue diseases of the oral mucosa and periodontal tissues;
- methods of use of the index estimates the level of hygiene of the mouth, the intensity of caries and periodontal tissues;
- peculiarities of periodontal diseases, oral mucosa and dental hard tissues have patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients before and during a specific treatment);

Be handy at:

- identify etiological factors leading to the development of caries disease and carious tooth hard tissue diseases of the oral mucosa, periodontal tissues and their complications;
- to carry out a professional oral hygiene based on the performance indices of hygiene;
- inspection and assessment of oral health on the basis of performance indices;
- diagnostic techniques use state of solid teeth tissues oral mucosa and periodontal tissues;

Manage:

- terminology classification of dental hard tissue diseases without caries dental diseases of the oral mucosa and periodontal tissues;
- methods of inspection of the mouth;
- methods and means of dental education.

4. Volume of discipline and types of study.

General credit value of the discipline is 2 credit units.

| Type of study load | Total hours | Semesters 9 |
|---------------------------------|-------------|-------------|
| Class hours (total) | 72 | 72 |
| Including: | | |
| lectures | - | |
| Practical classes (PC) | - | |
| Seminars (S) | - | |
| Laboratory <i>research</i> (LR) | 36 | 36 |
| Independent work (total) | 36 | 36 |
| Total labor input (hours) | 72 | |
| credits | 2 | |

5. Contents of the discipline

5.1. The content of the discipline sections

| № п/ п | Name of the section of discipline | Contents of the section |
|--------------|--|--|
| 1 | <p>Introduction to dentistry course.</p> <p>Historical Sketch of the department. The main activities of the department.</p> <p>Methods of examination in the mouth</p> | <p>Aims and objectives of discipline. The role and place of a dentist in clinical medicine. Manifestation in the oral cavity some common diseases (demonstration analysis and rare cases of clinical experience chair requiring general clinical training dentists). Algorithm Diagnostics and medzhdistsiplinarnogo interaction. Principles, especially the treatment. (Symptomatic and pathogenetic therapy) A brief historical sketch of the development of dentistry. The main activities of the department.</p> <p>Clinical examination of the patient. Basic and advanced inspection methods.</p> <p>Mastering the skills of using dental instruments for inspection of the mouth.</p> <p>Methods for assessing the level index oral hygiene, the intensity of caries and periodontal tissues. Visual inspection. Dentition. Condition of the oral mucosa.</p> <p>Functional diagnostic methods. The index scoreoral hygiene level patients with different somatic pathology</p> <p>Introduction to the mode structure and dental offices tools.</p> <p>Organization and equipment dental office. Types of dental units.</p> |

| | | |
|----|---|---|
| 2. | <p>Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.</p> <p>Aims and objectives of prevention. Primary and secondary oral hygiene products</p> <p>Clinical aspects of immunity in the oral cavity. Protective barnaya and function of the oral mucosa.</p> | <p>Assessment of the level of dental care.</p> <p>Planning prevention programs stages.</p> <p>A study of the prevalence and intensity of the main dental diseases: dental caries and periodontal diseases affecting the majority of the population, including patients with various somatic diseases. occupational health activities. Tools for removal of dental plaque. Hand, ultrasound and chemical methods of removal of dental plaque. Tools and means for polishing the surface of teeth. Means for processing the surface of the teeth and gums after occupational health</p> <p>The levels of implementation of prevention in public health practice.</p> <p>The purpose and objectives of WHO for the prevention of dental diseases. Experience of foreign countries and Russia in preventive and community dentistry. Keeping medical records.</p> <p>Prevention of HIV infection.</p> <p>oral hygiene products. Toothbrushes and requirements for them. Classification, composition, properties of toothpastes. Abrasive toothpastes.</p> |
| 3. | <p>Objective methods of assessing the level of oral hygiene. The practical task.</p> | <p>Determination hygienic state of mouth indexes Fedorova - Volodkina, Green - Vermillion Kuzminoj etc. Calculation health indexes..effectiveness of oral hygiene index. detection technology. Evaluation and interpretation</p> <p>Methods for cleaning teeth. Controlled tooth brushing technique and its implementation.</p> <p>Features of learning brushing teeth children of different ages and adults.</p> <p>Purpose and methods of using mouthwash, elixirs, dental floss, interdental brushes, toothpicks, irrigators, brushes for tongue, gums. occupational health activities. Tools for removal of dental plaque. Hand, ultrasound and chemical methods of removal of dental plaque. Tools and means for polishing the surface of teeth. Means for processing the surface of the teeth and gums after occupational health.</p> |
| 4. | <p>The main dental diseases. Klinika.Diagnostika. Treatment. prevention</p> <p>The manifestations of general diseases of the mouth.</p> | <p>Study of the prevalence and intensity of major dental diseases: dental caries without caries dental hard tissue, periodontal disease, oral mucosa diseases affecting the majority of the population, including patients with various somatic pathology.</p> <p>Oral mucosa diseases of the blood, gastrointestinal tract, central nervous system, cardiovascular system, kidneys, endocrine diseases, acute and chronic infectious diseases, allergic diseases.</p> <p>Klinika.Diagnostika. Treatment. prevention</p> |

| | | |
|----|---|--|
| | Providing dental care to patients with cardiac disease. | Manifestations in the mouth of diabetes, hypertension, blood diseases and HIV infection. Features a survey of cardiac patients. Clinical experience with the department. Long-term results of clinical observations. |
| 5. | The role of the dentist in solving interdisciplinary problems. The possibilities of modern dentistry. Current diagnosis and treatment technologies. Demonstration of rare clinical cases from the experience of the Department of General and Clinical Dentistry. Clinical simulation ambulatory situations requiring dental-surgery. | Parsing complex clinical cases using tools and methods for telemedicine. Demonstration of the department of clinical material (including a live broadcast of the clinical situations RNTSRR). Methods of dental examination and modern programs of dental treatment of patients with somatic pathology. And 3-D CAD / CAM technology The volume of the preparation and design of the mouth during dental treatment of caries, erosion of enamel and dentin, wedge-shaped defects of different localization. Modern possibilities of dental implantation. Restoring lost tooth structure. Indications ceramic crowns and inlays. Clinical modeling application of composite materials for eliminating the defects of hard tissues of teeth of different origin. Clinical modeling restoring teeth with crowns, veneers and tabs. Demonstration of dental photographs on clinical examples from the professional experience of general practice dentist. |
| 6. | Overview of modern means and methods of beam diagnostics of the head and neck. | Precancerous diseases of the oral mucosa. Oncology doctor alertness, its species. Isolated and combined treatment of benign and malignant tumors Chloe. Side effects of treatment. Complications in patients with cancer of the mouth and the maxillofacial region. Modern technologies of external beam radiotherapy. Types of radiation therapy. Brachytherapy, remote and interstitial therapy. Radionuclide therapy, mechanisms of influence on the tumor. |

5.2. Sections of disciplines and types of classes

| N _o N _o | Title Name of discipline | <i>L</i> | <i>PC</i> | <i>LR</i> | <i>S</i> | Ssgw | Tot al hou rs |
|----------------------------------|--------------------------|----------|-----------|-----------|----------|------|------------------------|
|----------------------------------|--------------------------|----------|-----------|-----------|----------|------|------------------------|

| | | | | | | | |
|----|---|--|--|----|--|----|-----------|
| 1. | Introduction to dentistry course. Historical Sketch of the department. The main activities of the department. Methods of examination in the mouth | | | 6 | | 6 | 12 |
| 2. | Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases. Aims and objectives of prevention. Primary and secondary oral hygiene products Clinical aspects of immunity in the oral cavity. Protective barrnaya and function of the oral mucosa. | | | 6 | | 6 | 12 |
| 3. | Objective methods of assessing the level of oral hygiene. The practical task. | | | 6 | | 6 | 12 |
| 4. | The main dental diseases. Klinika.Diagnostika. Treatment. prevention The manifestations of general diseases of the mouth. Providing dental care to patients with cardiac disease. | | | 6 | | 6 | 12 |
| 5. | The role of the dentist in solving interdisciplinary problems. The possibilities of modern dentistry. Current diagnosis and treatment technologies. Demonstration of rare clinical cases from the experience of the Department of General and Clinical Dentistry. Clinical simulation ambulatory situations requiring dental-surgery. | | | 6 | | 6 | 12 |
| 6. | Overview of modern means and methods of beam diagnostics of the head and neck. | | | 6 | | 6 | 12 |
| | in total | | | 36 | | 36 | 12 |

6. Laboratory training

| № п/п | № discipline section | Themes of practical training (seminars) | Workload (hours) |
|----------|-----------------------------------|---|---------------------|
| 1. | Introduction to dentistry course. | Morphology - the basis for effective treatment. The | 6 |

| | | | |
|----|---|--|---|
| | Historical Sketch of the department. The main activities of the department. Methods of examination in the mouth | acquisition and development of skills fence morphological material (scraping, stamp, puncture) | |
| 2. | Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases. Aims and objectives of prevention. Primary and secondary oral hygiene products Clinical aspects of immunity in the oral cavity. Protective barnaya and function of the oral mucosa. | Drawing up a plan of dental treatment | 6 |
| 3. | Objective methods of assessing the level of oral hygiene. The practical task. | Professional oral hygiene and its importance in the treatment of dental diseases in clinical practice. | 6 |
| 4. | The main dental diseases. Klinika.Diagnostika. Treatment. prevention The manifestations of general diseases of the mouth. Providing dental care to patients with cardiac disease. | Algorithm for dental treatment of patients with concomitant pathology | 6 |
| 5. | The role of the dentist in solving interdisciplinary problems. The possibilities of modern dentistry. Current diagnosis and treatment technologies. Demonstration of rare clinical cases from the experience of the Department of General and Clinical Dentistry. Clinical simulation ambulatory situations requiring dental-surgery. | Algorithm for dental treatment of patients with cardiac pathology | 6 |
| 6. | Overview of modern means and methods of beam diagnostics of the head and neck. | Description X-ray examination. | 6 |
| | | | |

7. Material and technical support of the discipline: 7.1. The list of facilities needed for the classroom on discipline.

1. Training rooms - 2 (aud.237,436) (street Maclay d.10 \ 2, Faculty of Humanities and Social Sciences.)
2. Learning Lab 1 (aud.236) (Str. Maclay d.10 \ 2, Faculty of Humanities and Social Sciences)
3. The Russian Scientific Center of Radiology Ul. Profsoyuznaya d.86 (2 auditorium, 2 conference rooms)

7.2. The list of equipment required for classroom training on the subject.

1. Multimedia Complex (laptop, projector, screen) - 6 pcs.
2. Installing the dental chair with Hiradent 654-3 - 1 pc.
3. ED 240 ovens with RS422 (Binder) (9010-0101) (LLC Diaem) - 1pc.
4. RC-2ZT Phantom Frasco GmbH head trainer Germany (10130120/190315/0001935) - 1 pc.
5. Dental tools (set) - 10 pcs.
6. Workplace student / teacher as part of the system unit, monitor, keyboard - 1 pcs.
7. Intraoral Camera (10125230/221108/0006472 Korea.) - 1 pc.
8. Ultrasonic scaler DTE-7DLED - 4 pcs.

8. Information support of the discipline

8.1. Databases, reference and search systems:

1. Electronic Library System <http://lib.rudn.ru/MegaPro/Web>
2. "University Library Online" <http://www.biblioclub.ru>
3. <http://www.biblio-online.ru>
4. www.studentlibrary.ru
- five. EBS "Lan"
5. <http://e.lanbook.com/>

9. Educational and methodical support of the discipline:

a) Main literature:

1. Tutorial Guide of Operative Dentistry / Ф.Ю. Даурова, М.К. Макеева, З.С. Хабазе. - Электронные текстовые данные. - М. : Изд-во РУДН, 2016. - 151 с.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=452391&idb=0

б) Additional literature:

1. Anaesthesia and Sedation in Dentistry [Текст] : Монография / Ed. by M.P.Coplans and R.A.Green. - Книга на английском языке. - Amsterdam ; New York : Elsevier, 1983. - 421 p. : il. - (Monographs in anaesthesiology ; V. 12). - 38.91
2. Application of the International classification of diseases to dentistry and stomatology. ICD-DA [Текст] . - Книга на английском языке. - Geneva : World health organization, 1973. - 114p. : il. - 0.00.
3. American Pocket medical dictionary [Текст] : A dictionary of the Principal Terms Used in Medicine, Nursing, Pharmacy, Dentistry, Veterinary Science, and Allied Biological Subjects. - 19th ed. ; Книга на английском языке. - Philadelphia-London : W.B.Saunders, 1953. - 639 p. : il. - 2.50.

10. Guidelines for students on the development of the discipline (module)

The main purpose of the discipline "stomatology" For the medical faculty is student mastery of the theory and practice of application of methods prevention hard dental tissue diseases of the oral mucosa and periodontal tissues among the various population groups, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients).

Educational work is carried out in the form of hands-on labs, students' independent work.

Independent work of students, provided the educational plan in the amount of not less than 50-

70% of the total number of hours should correspond to a deeper assimilation of the course, build research skills and to orient students to the ability to apply theoretical knowledge in practice.

Tasks for independent work composed by sections and topics that are not provided classroom training, or if you want to further develop and analyze teacher considered material in the amount of scheduled hours.

Tasks for independent work can be made in the form of a table showing a particular type of independent work:

- study of teaching material (lecture notes on the educational and scientific literature) and the preparation of reports on seminars and workshops, to participate in panel discussions and business games;
- Work with the normative documents and legal framework;
- search and review scientific publications and electronic sources of information, preparation of conclusions on the review;
- implementation of control work and creative tasks;
- problem solving, exercise;
- writing essays (essay);
- work with tests and questions for self-examination;
- of translations into foreign languages / from foreign languages;
- modeling and analysis of specific problem situations
- processing statistical data, standard materials;
- and analysis of statistical empirical data, drawing conclusions on the basis of the analysis, etc.

11. Fund of estimated means for the interim assessment of students in the discipline (module)

Materials for assessing the level of mastering the educational material of the discipline "Dentistry "(evaluation materials), including a list of competencies with an indication of the stages of their formation, a description of indicators and criteria for evaluating competencies at various stages of their formation, a description of assessment scales, standard control tasks or other materials necessary for assessing knowledge, skills, skills and (or) experience of activity that characterize the stages of competence formation in the process of mastering the educational program, methodological materials that determine the procedures for evaluating knowledge, skills, skills and (or) experience of activity that characterize the stages of competence formation are fully developed and are available to students on the discipline page in the TUIS RUDN.

The program is compiled in accordance with the requirements of the FSES HE.

Developers:

Associate professor of Department of General
and Clinical Dentistry

E.N.Gvozdikova

Head of Department of General
and Clinical Dentistry

A.M.Avanesov

Head of Program

I.V.Radysh