

**PRIVATE HIGHER EDUCATIONAL INSTITUTION
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"
Department of Dentistry**

**SYLLABUS
EDUCATIONAL DISCIPLINE**

«Therapeutic dentistry»

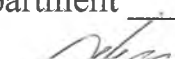
LEVEL OF HIGHER EDUCATION The second (master's) level

DEGREE OF HIGHER EDUCATION Master

FIELD OF KNOWLEDGE 22 Healthcare

SPECIALTY 221 Dentistry

***COURSE* 4**

Considered and approved
at a meeting of the Department of Dentistry
Protocol № 1 from «01» 09 2020 p.
Acting head of the department _____
MD, prof.  Kuts P.V.

Kiev 2020

| 1. General information | |
|--|--|
| Subject | Therapeutic dentistry |
| Lector | Acting Head of the Department, Doctor of Medical Sciences, Professor, Kuts Pavlo Valeriyovych, Al-Gburi Waleed K Hameed |
| Teacher's e-mail | forum-for-me@bigmir.net |
| Discipline format | Normative discipline. |
| The volume of the discipline | 120 hours , 4 ECTS |
| Link to the distance learning site | maem.kiev.ua |
| Consultations | Web conferences in various programs (Zoom, Skype, Myit, Jitsy, Teams, Viber, Facebook, Cisco Webs). Exchange tasks via e-mail, Wandrive |
| 2. Annotation to the course | |
| Therapeutic dentistry is a discipline whose methods are aimed at maintaining the health of teeth, organs and tissues of the oral cavity, restoring their anatomical shape and physiological function, prevention of dental diseases by therapeutic methods. According to the approximate curriculum of undergraduate training of specialists of the second (master's) level of higher education in specialty 221 "Dentistry", the study of the discipline "Therapeutic Dentistry" is carried out by students in the 3rd, 4th and 5th years of study in V-X semesters. The subject of the discipline on the 4th year is the etiology, pathogenesis, clinical manifestations of dental diseases, methods of treatment, as well as national and individual preventive measures to prevent such common diseases as periodontal disease. | |
| 3. Purpose and objectives of the course | |
| 1. The purpose of teaching the discipline "Therapeutic Dentistry" is to train a dentist who can diagnose, prevent and treat diseases of the teeth, periodontium and oral mucosa. 2. The main tasks of studying the discipline "Therapeutic Dentistry" are the ability to examine the dental patient, to identify the leading syndromes and symptoms, to justify and formulate a preliminary diagnosis; analyze the results of examination of a dental patient and make a differential diagnosis, formulate a final diagnosis of major diseases, identify and identify manifestations of somatic, infectious diseases in the oral cavity, determine the nature and principles of treatment of patients in therapeutic dentistry, identify different clinical variants and complications of the most common , to carry out their primary and secondary prevention. | |
| 4. Competencies and learning outcomes | |
| Learning outcomes | Teaching methods |
| Have modern methods of prevention, diagnosis and treatment of periodontal diseases | Lectures, practices, oral interviews, tests, dialogue with applicants for higher education, creative work with the creation of multimedia presentations and their presentation, independent work with literary sources |
| <p>Integral: Ability to solve problems and problems in the field of health care in the specialty "Dentistry" in a professional activity or in the learning process, which involves research and / or innovation and is characterized by uncertainty of conditions and requirements.</p> <p>General: 1.Ability to abstract thinking, search, analysis, synthesis; processing information from various sources, basics of evidence-based medicine. 2. Ability to lifelong learning. 3. Knowledge and understanding of the subject area and understanding of the profession. 4. Ability to implement knowledge in practice. 5. Ability to communicate orally and in writing in the state language. Ability to communicate in a foreign language. 6. Ability to effectively professional and interpersonal communication and use of information and communication technologies. 7. The ability to adapt to new conditions and situations and the ability to act autonomously in them. 8. Ability to identify and</p> | |

solve problems. 9. Ability to work in a team, including interdisciplinary and international. 10. Observance of deontological norms in professional activity. 11. Ability to implement a system of knowledge and practical skills to ensure a healthy lifestyle and patients. 12. Ability to self-assess their own achievements and increase their level. 13. Ability to assess the state of the environment, to help eliminate its negative effects on health. 14. Ability to act socially responsible and civic conscious. 15. Ability to organize legal support and management of professional activities. 16. Leadership in the development and implementation of innovations and their use in professional activities. 17. The ability to exercise their rights and responsibilities as a member of society, to realize the need for its sustainable development, the rule of law. 18. The ability to preserve and multiply moral, cultural, scientific values and achievements of society.

Special (professional, subject):

1) collection of medical information about the patient's condition; 2) evaluation of the results of laboratory and instrumental research methods; 3) establishing a clinical diagnosis of dental disease; 4) diagnosing emergencies; 5) planning and conducting measures for the prevention of dental diseases; 6) determining the nature and principles of treatment of dental diseases; 7) determination of the necessary mode of work and rest, diet in the treatment of dental diseases; 8) determination of tactics of management of the stomatologic patient at somatic pathology; 9) performance of medical and dental manipulations; 10) treatment of major dental diseases; 11) organization of medical and evacuation measures; 12) determination of tactics and provision of emergency medical care; 13) organization and carrying out of dental medical examination of the persons subject to dispensary supervision; 14) assessment of the impact of the environment on the health of the population (individual, family, population); 15) maintaining medical records; 16) processing of state, social and medical information.

5. Organization of course training

The volume of the course

| Type of lesson | Total amount of hours |
|-------------------|-----------------------|
| Lectures | 10 |
| Practical classes | 90 |
| Independent work | 20 |

Course signs

| Semester 7-8 | Specialty | Course (year of study) | Normative discipline |
|--------------|----------------------|------------------------|----------------------|
| | <u>221 Dentistry</u> | 4 | |

Course thematics

THEMATIC PLAN OF LECTURES THEMATIC PLAN OF LECTURES FROM THERAPEUTIC DENTISTRY FOR IV YEAR STUDENTS 7th semester

| № | Topic | Hours |
|----|--|-------|
| 1. | The concept of periodontology as a science. Anatomical and physiological features of the periodontium. Methods of examination of periodontal patients. Classification of periodontal diseases. | 2 |
| 2. | Etiology and pathogenesis of periodontal disease. | 2 |
| 3. | Clinic, diagnosis of periodontal disease. | 2 |
| | Total | 4 |

Lecture topics for 4th year, 8th semester students

| № | Topic | Hours |
|----|--|-------|
| 1 | Treatment of periodontal patients, local interventions in the oral cavity. | 2 |
| 2. | Prevention of periodontal disease. | 2 |
| | Total | 4 |

THEMATIC PLAN OF PRACTICAL CLASSES

Thematic plan of practical classes in therapeutic dentistry for 4th year students VII - semester

| № | Topic | Hours |
|-----|---|-------|
| 1 | The concept of periodontology. Organization of periodontal care for patients. Structure and functions of the periodontium. | 3 |
| 2. | Classifications of periodontal diseases (NF Danilevsky, 1994; ICD-10, 1998; International Classification of EFP and AAP 2017). Positive qualities and shortcomings. Clinical methods of examination of patients with periodontal disease. | 3 |
| 3. | Index assessment of periodontal condition and oral hygiene. | 3 |
| 4. | Functional methods of examination of patients with periodontal disease | 3 |
| 5. | X-ray diagnosis of periodontal disease. | 3 |
| 6. | Laboratory methods of examination of periodontal patients. | 3 |
| 7. | Errors and complications in the diagnosis of periodontal disease. | 3 |
| 8. | Etiology and pathogenesis of inflammatory periodontal disease. Local factors, the mechanism of their influence. Clinic, diagnosis of catarrhal papillitis and gingivitis. | 3 |
| 9. | Clinic, diagnosis of hypertrophic papillitis and gingivitis. | 3 |
| 10. | Clinic, diagnosis of ulcerative necrotic papillitis and gingivitis. | 3 |
| 11. | Clinic, diagnosis of localized periodontitis. | 3 |
| 12. | Etiology and pathogenesis of dystrophic-inflammatory and dystrophic periodontal diseases. The role of local and general factors. Scientific contribution of domestic scientists in studying the etiology and pathogenesis of periodontal disease. Mechanisms of formation of gingival, periodontal, bone pockets. | 3 |
| 13. | X-ray, functional and laboratory examination of patients with generalized periodontitis. | 3 |
| 14 | Clinical manifestations of generalized periodontitis and periodontitis | 3 |
| 15 | Clinic, diagnosis of progressive idiopathic periodontal diseases | 4 |
| 16 | Differentiated credit | 4 |
| | Total | 50 |

Topics of practical classes for 4th year, 8th semester students in therapeutic dentistry

| № | Topic | Hours |
|--------------------------------|--|-------|
| Module 3. Periodontal diseases | | |
| 1. | General principles and phases of treatment of patients with periodontal diseases. Drawing up a treatment plan. Professional oral hygiene, its components, professional means of oral hygiene. | 3 |
| 2. | Manual method of removing dental plaque. List of tools, rules of operation. Pros and cons. Hardware, chemical and combined methods of removing dental plaque. Rules of operation of devices, contraindications, advantages, disadvantages. | 3 |
| 3. | Local drug treatment of periodontal diseases, groups of drugs, methods of application, indications. | 3 |
| 4. | Surgical methods of treatment of periodontal diseases (gingival, | 3 |

| | | |
|-----|---|----|
| | mucogingival, osteomucogingival, aesthetic, regenerative operations). | |
| 5. | Orthopedic and orthodontic interventions in periodontal disease. | 3 |
| 6. | General medical treatment of patients with periodontal diseases. Indications, groups of drugs, treatment regimens, prescriptions. 3 7. Diet therapy in patients with periodontal disease. Physiotherapeutic methods of treatment of patients with periodontal diseases. | 3 |
| 7. | Diet therapy in patients with periodontal disease. Physiotherapeutic methods of treatment of patients with periodontal diseases. | 3 |
| 8. | Features of treatment of patients with inflammatory, inflammatory-dystrophic and dystrophic periodontal diseases. Features of treatment of patients with periodontal diseases on the background of diseases of internal organs. | 3 |
| 9. | Supportive therapy for patients with generalized periodontitis, periodontitis. Errors and complications in the treatment of periodontal disease. | 3 |
| 10. | Prevention of periodontal diseases. Etiological and pathogenetic approaches to prevention, varieties, forms of organization, methods of prevention. Social and medical measures for the prevention of periodontal disease. Individual measures for the prevention of periodontal disease. The role of professional and individual hygiene in the prevention of periodontal disease. | 3 |
| 11. | Organization of periodontal office (department), its equipment and necessary medicines. Algorithms of individual oral hygiene in different conditions of the periodontium. | 3 |
| 12. | Medical examination of persons with periodontal diseases. Stages, documentation, evaluation of the effectiveness of medical examination. | 3 |
| 13. | Differentiated credit | 4 |
| | Total | 40 |

THEMATIC PLAN OF INDEPENDENT WORK OF STUDENTS (IWS)

Thematic plan of independent extracurricular work of students in the discipline of therapeutic dentistry 4th year, 7th semester

| № | Topic | Hours |
|--------------------------------|--|----------|
| Module 3. Periodontal diseases | | |
| 1 | Independent elaboration of topics: | |
| | 1. Computer system for diagnosing the condition of periodontal tissues "Florida Probe" | 1 |
| | 2. Modern radiological methods of research of periodontal diseases, their advantages. | 1 |
| 2 | Preparation for the differential test. | 2 |
| | Total | 4 |

Thematic plan of independent extracurricular work of students in the discipline of therapeutic dentistry 4th year, 8th semester

| № | Topic | Hours |
|--------------------------------|---|-------|
| Module 3. Periodontal diseases | | |
| 1 | Independent study of the topic: | |
| | Features of treatment of periodontal diseases using the system Vector | 2 |
| | SRP methodology | 2 |

| | | |
|---|--|----|
| | Modern physiotherapeutic methods of treatment of patients with periodontal diseases. | 2 |
| | Modern professional hygiene for peri-implants. | 2 |
| 2 | Preparation for the differential test. | 8 |
| | Total | 16 |

6. Course evaluation system

General course evaluation system

Current control is performed based on the control of theoretical knowledge, skills and abilities in practical classes. Independent study students are assessed in practical classes, and is an integral part of the final grade of the student. Current control is performed during the training sessions and aims at checking the assimilation of students learning the material. Forms of current control are:

- a) test tasks with a choice of one correct answer, with the definition of the correct sequence of actions, with determination of the conformity, defining the specific portion of the photo or diagram ("detection");
- b) individual oral questioning, interview;
- c) the solution of typical situational tasks;
- g) control of practical skills;

Grades on the national scale ("excellent" - 5, "good" - 4, "satisfactory" - 3, "unsatisfactory" - 2), received by students, are displayed in the journals of attendance and academic group performance.

Final control

The final control is the form of a differentiated credit at the end of the 1st semester and at the end of the 2nd semester upon completion of the course of medical biology.

The semester exam is a form of final control of mastering by the student of theoretical and practical material on academic discipline. The final control (exam) is carried out at the last control lesson.

Students are admitted to the FC who have attended all the classes provided by the curriculum in the discipline and while studying the module scored the number of points not less than the minimum (**72 points**). A student who, for good or bad reasons, has missed classes, is allowed to rework academic debt for a certain period of time.

Evaluation of current educational activities. During the assessment of mastering each topic for the current educational activity of the student scores are set on a 4-point (national) assessment scale. This takes into account all types of work provided by the discipline program. The student must receive a score on each topic. Scores on the traditional scale are converted into points. The final assessment of the current academic activity is the arithmetic mean (the sum of scores for each lesson is divided by the number of lessons per semester) and translated into points according to **Table 2**.

Table 2. Conversion of the average score for the current activity into a multi-point scale (for disciplines completed by diff.credit, exam)

| 4- point scale | 120- point scale | 4- point scale | 120- point scale | 4- point scale | 120- point scale | 4- point scale | 120- point scale |
|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| 5 | 120 | 4,45 | 107 | 3,91 | 94 | 3,37 | 81 |
| 4,95 | 119 | 4,41 | 106 | 3,87 | 93 | 3,33 | 80 |
| 4,91 | 118 | 4,37 | 105 | 3,83 | 92 | 3,29 | 79 |
| 4,87 | 117 | 4,33 | 104 | 3,79 | 91 | 3,25 | 78 |
| 4,83 | 116 | 4,29 | 103 | 3,74 | 90 | 3,2 | 77 |
| 4,79 | 115 | 4,25 | 102 | 3,7 | 89 | 3,16 | 76 |
| 4,75 | 114 | 4,2 | 101 | 3,66 | 88 | 3,12 | 75 |
| 4,7 | 113 | 4,16 | 100 | 3,62 | 87 | 3,08 | 74 |
| 4,66 | 112 | 4,12 | 99 | 3,58 | 86 | 3,04 | 73 |
| 4,62 | 111 | 4,08 | 98 | 3,54 | 85 | 3 | 72 |
| 4,58 | 110 | 4,04 | 97 | 3,49 | 84 | <3 | Not enough |
| 4,54 | 109 | 3,99 | 96 | 3,45 | 83 | | |

| | 4,5 | 108 | 3,95 | 95 | 3,41 | 82 | | | | | | | | | | |
|--|--|-----|------|----|------|----|--|--|-------------------|--------|-----|--------------|-----|--------------|-----|--------------|
| | <p>The maximum number of points that a student can collect for current educational activity during semester in order to be admitted to the exam is 120 points.</p> <p>The minimum number of points that a student can collect for current educational activity during semester in order to be admitted to the exam is 72 points.</p> <p>Calculating of the number of points is based on obtained marks of student according to traditional scale while learning subject during the semester, by calculating the arithmetic mean (AM) that is rounded to two signs after comma.</p> <p>Evaluation of independent work of students. Independent work of students, which is provided by the topic of the lesson together with the classroom work, is evaluated during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the final module control.</p> <p>Evaluation of final control.</p> <p>The maximum number of points that a student can score during the exam is 80 points.</p> <p>The final control is considered credited if the student scored at least 60% of the maximum amount of points (for a 200-point scale - at least 50 points).</p> <p>Determining the number of points that a student scored in the discipline: the number of points that a student scored in the discipline is defined as the sum of points for the current academic activity (Table1) and for the final control (diff.credit, exam) (Table 3).</p> <p>Table 3. Scale of assessment of differentiated (exam) credit:</p> <table border="1"> <thead> <tr> <th>Traditional scale</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>«5»</td> <td>70-80</td> </tr> <tr> <td>«4»</td> <td>60-69</td> </tr> <tr> <td>«3»</td> <td>50-59</td> </tr> </tbody> </table> | | | | | | | | Traditional scale | Points | «5» | 70-80 | «4» | 60-69 | «3» | 50-59 |
| Traditional scale | Points | | | | | | | | | | | | | | | |
| «5» | 70-80 | | | | | | | | | | | | | | | |
| «4» | 60-69 | | | | | | | | | | | | | | | |
| «3» | 50-59 | | | | | | | | | | | | | | | |
| Requirements for written work | The final written work is performed in the form of a test. | | | | | | | | | | | | | | | |
| Practical classes | Classroom work | | | | | | | | | | | | | | | |
| The 1st semester | | | | | | | | | | | | | | | | |
| Classroom work - score from 2 to 5 for each topic. | | | | | | | | | | | | | | | | |
| <p><i>Differentiated credit (semester control)</i> Semester control at the end of the 1st semester is provided in the form of Differentiated credit. (Table 2) Provides a final grade on a 120-point scale as the sum of grades for the current control of knowledge (oral examination, written survey, Practical work, abstracts).</p> <p>Semester control includes control of theoretical and practical training.</p> <p>Amount: minimum $72 + 50 = 122$, maximum $120 + 80 = 200$</p> | | | | | | | | | | | | | | | | |
| The 2nd semester | | | | | | | | | | | | | | | | |
| Classroom work - score from 2 to 5 for each topic. | | | | | | | | | | | | | | | | |
| <p>Final module control is evaluated from 50 to 80 points and consists of:</p> <p>Test control - 40 tests = 40 points (1 point for the correct answer to 1 test).</p> <p>Answer to 2 theoretical questions of 20 points for each = 40 points. Amount: 80.</p> <p>Amount: minimum $72 + 50 = 122$, maximum $120 + 80 = 200$</p> | | | | | | | | | | | | | | | | |
| <p>The list of theoretical questions to prepare students for the exam.</p> <p>The list of practical skills for final module control</p> | | | | | | | | | | | | | | | | |
| List of practical tasks for the content module 5 | | | | | | | | | | | | | | | | |

"Features of examination of patients with periodontal pathology. Systematics of periodontal diseases "

1. Work with dental equipment and tools, be able to sterilize them.
2. To draw up the reporting documentation of the dentist, to analyze the quantitative and qualitative indicators of the doctor's work at the therapeutic reception.
3. To conduct a clinical examination of a patient with periodontal pathology, to draw up a medical history, periodontogram.
4. Determine the indices of oral hygiene and evaluate them.
5. Determine the indices of PMA, PI, KPI, CPITN, Schiller-Pisarev test, bleeding index and be able to analyze them.
6. To be able to make the plan of additional inspection of the patient with pathological changes of a periodontium.
7. To test MA Yasynovsky, functional methods of examination of a periodontal patient and be able to evaluate them.
8. Be able to analyze radiographs of teeth, periodontium.
9. Be able to analyze clinical and biochemical blood tests.

List of theoretical questions to the content module 6

"Clinic and diagnosis of periodontal disease."

1. Papillitis. Varieties. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
2. Catarrhal gingivitis. Etiology, pathogenesis. clinic, diagnostics, differential diagnostics.
3. Hypertrophic gingivitis. Etiology, pathogenesis. clinic, diagnostics, differential diagnostics.
4. Ulcerative-necrotic gingivitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis.
5. Localized periodontitis. Etiology, pathogenesis, diagnosis, differential diagnosis.
6. Generalized periodontitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis.
7. Periodontitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis.

List of practical tasks for the content module 6

"Clinic and diagnosis of periodontal disease."

1. To draw up the reporting documentation of the dentist.
2. Conduct a clinical examination of a patient with periodontal pathology, correctly draw up a medical history.
3. Determine the indices of oral hygiene and evaluate them.
4. Determine the indices of PMA, PI, KPI, CPITN, Schiller-Pisarev test, bleeding index and be able to analyze them.
5. Make a plan for additional examination of a patient with periodontal pathology.
6. Take material for cytological and bacteriological examinations in the presence of pathological changes in periodontal tissues.
7. Be able to analyze radiographs of teeth, periodontium; results of functional examination.
8. Analyze the results of cytological, histological, bacteriological examination of the patient, clinical analysis of blood, urine, biochemical analysis of blood.

List of theoretical questions to the content module 7

"Treatment and prevention of periodontal disease".

1. General principles of treatment of patients with various periodontal diseases.
2. Therapeutic local interventions. Methods of removing dental plaque: manual, hardware, chemical, combined. Advantages and disadvantages of the method.
3. Medicines and their use in local intervention.
4. Periodontal dressings. Purpose, varieties, methods of application.
5. Curettage of periodontal pockets. Varieties. Methods of conducting. The use of drugs.
6. Orthopedic local interventions. Elimination of traumatic occlusion.
7. Splinting. Indications, types, methods.

8. General treatment of periodontitis. Goal. Varieties.
9. Indications and contraindications to the use of general therapy.
10. General treatment of patients with periodontitis Choice of drugs.
11. Groups of drugs, methods of their use. Mechanism of action.
12. Physical methods of treatment of periodontal diseases. Indications, contraindications.
13. Methods of electrotherapy, magnetic and laser therapy, balneotherapy, massage.
14. Errors and complications in the treatment of patients with periodontitis.
15. Prevention of periodontal diseases (primary, secondary, tertiary).
16. Public measures for the prevention of periodontal disease.
17. Individual prevention of periodontal diseases.
18. Oral hygiene products.
19. Algorithms of individual oral hygiene in different conditions of periodontal tissues.
19. Organization and equipment of periodontal office (department).
20. Medical examination of patients with periodontal diseases. Principles. Documentation.
21. Medical examination of patients with periodontal diseases. Evaluation of effectiveness.

List of practical tasks for the content module 7

"Treatment and prevention of periodontal disease".

1. Make a treatment plan for a patient with periodontal disease.
2. To carry out professional hygiene of an oral cavity.
3. Perform selective grinding and alignment of the occlusal surface of the teeth.
4. Carry out irrigation, instillation and application of drugs.
5. Apply medical non-hardening and hardening bandages in the treatment of periodontal disease.
6. Perform an autopsy of the periodontal abscess.
7. Perform curettage of periodontal pockets.
8. Perform diathermocoagulation in the treatment of periodontal disease and oral mucosa.
9. Carry out intradental electrophoresis, vacuum massage.
10. Prescribe medications and prescribe physiotherapy.
11. To give recommendations on the algorithm of individual oral hygiene.
12. Have the forms and methods of sanitary-educational work

Circumstance of admission to the final control

1. Semester control at the end of the 1st semester is provided in the form of a differential credit. (Table 2) Provides a final score on a 120-point scale as the sum of scores for the current control of knowledge (oral examination, written survey, tests, verification of identification of micropreparations, abstracts), the results of 2 content modules.
2. Students are allowed to take the differentiated credit, exam only if there is no debt for the implementation of the curriculum.

7. Course policy

The organization of the educational process is carried out with the use of the European Credit Transfer System (ECTS) to assess student performance. The points gained in the current survey, independent work and points of the final control are credited. This must take into account the student's presence in class and his activity during practical work. Inadmissible: absences and late classes; use of a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher); copying and plagiarism; untimely performance of the task, the presence of unsatisfactory grades for 50% or more of the submitted theoretical and practical material.

8. RECOMMENDED LITERATURE

Basic sources

1. Dental caries. Pulpitis. Apical periodontitis. Oral sepsis: a textbook(M. Yu. Antonenko, Yu. Romanova, S.A. Shnayder [et al.]; ed. by A. V. Borysenko. —Odesa: Astro, 2015. —314 p.
2. Oral mucosa diseases: Textbook / M. Yu. Antonenko, O.F. Nesyn, S. A. Shnayder [et al.]; by ed. A. V. Borysenko. —Odesa: Print house, 2015. -328 p.
3. Periodontal and Oral Mucosa Diseases: in 2 volumes. —Volume 2: textbook (IV a. 1.) /

A.V. Borysenko, L.V. Lynovytska, O.F. Nesyn et al.; edited by A.V. Borysenko. -2018. -624 p.
4.Borysenko A.V. Periodontal diseases / A.V. Borysenko, Yu.G.Romanova, A.F.Nesyn [et al.]; ed. by A.V.Borysenko, Yu.G.Romanova. –Odessa: ONMedU, 2017. –212 p.

Additional sources

1.Aschheim K.W., Dale B.G. Esthetic Dentistry. A clinical Approach to Techniques. –2 nd Ed. –2000. –812 p.2.Clinical practice on Therapeutic stomatology for IV students. Educational Methodical textbook for stomatology department students of medical educational establishments of III-IV accreditation levels / Petrushanko T.O., Nikolishin A.K., Ilenko N.M., Nikolishina E.V., Ivanitsky I.O. –Kyiv: “Centr uchbovoy literatury”, 2018. –288 p.3.Pocket Atlas of Endodontics. Rudolf Beer, Michael A. Baumann, Andrej M. Kielbassa. Thieme Stuttgart, New York, 2006. –230 p.4.Petrushanko T.O., Ostrovska L.Y., Ilenko N.M. Clinical practicum in Therapeutic Dentistry: Manual/ Petrushanko T.O., Ostrovska L.Y., Ilenko N.M. -Kyiv: “Centruchbovoy literatury”, 2019. –260 p.5.Petrushanko T.O. Academic case history of therapeutic stomatology/ T.O. Petrushanko, I.Y. Lytovchenko, I.Y. Popovich -Poltava, 2015. –60 p.6.Rybalov O.V., Petrushanko T.A., Lytovchenko I.Yu., Sidash Yu.V. Diseases of lips: Manual. –Poltava, 2019. –274 p. 7.Stomatology: textbook: in 2 books. Book 2 / M.M. Rozhko, I.I. Kyrylenko, O.H. Denysenko et al.: edited by M.M. Rozhko. -Kyiv: AUS Medicine Publishing, 2018. –960 p.I

Lector  Al-Gburi Waleed K Hameed