

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

SYLLABUS
EDUCATIONAL DISCIPLINE

«Pediatric therapeutic dentistry»

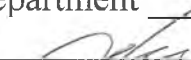
LEVEL OF HIGHER EDUCATION The second (master's) level

DEGREE OF HIGHER EDUCATION Master

FIELD OF KNOWLEDGE 22 Healthcare

SPECIALTY 221 Dentistry

COURSE _5_

Considered and approved
at a meeting of the Department of Dentistry
Protocol № 1 from «01» 09 2010 p.
Acting head of the department _____
MD, prof.  Kuts P.V.

Kiev 2020

1. General information	
Subject	Pediatric therapeutic dentistry
Lector	Acting Head of the Department, Doctor of Medical Sciences, Professor, Kuts P.V. Polishchuk I.S.
Teacher's e-mail	forum-for-me@bigmir.net
Discipline format	Normative discipline.
The volume of the discipline	180 hours, 6 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	
<p>Module 2. "Diseases of periodontal tissues and oral mucosa in children. Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of major dental diseases in children "discipline" Pediatric Therapeutic Dentistry "studies the clinical picture, diagnosis and treatment of periodontal diseases and mucous membranes of the mouth, tongue and lips, taking into account the age of the child and the impact these diseases on the body as a whole. Promotes the formation of special (professional) competencies in students, which they can use in the process of working directly at the patient's chair. During the practical classes, students practice the studied practical manipulations on the diagnosis and treatment of major dental diseases in children.</p>	
3. Purpose and objectives of the course	
<p>- the purpose of teaching Module 2. "Diseases of periodontal tissues and oral mucosa in children. Comprehensive diagnosis and determination of individual approaches to prevention and treatment of major dental diseases in children "discipline" Pediatric Therapeutic Dentistry "is the acquisition by students of skills in diagnosis, differential diagnosis and treatment of dental diseases (including caries and its complications, periodontal diseases and mucous membranes). mouth) in children of different ages on the basis of studying their etiology, pathogenesis, clinical manifestations, methods of diagnosis and differential diagnosis, methods of treatment, selection and use of modern dental materials and drugs.</p> <p>- The main tasks of the study of Module 2. "Diseases of periodontal tissues and oral mucosa in children. Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of major dental diseases in children "discipline" Pediatric Therapeutic Dentistry "are:</p> <ol style="list-style-type: none"> 1. identify and identify the leading clinical symptoms and syndromes in children with dental diseases by standard methods, using patient history, examination data, knowledge about the person, his organs and systems, to establish a plausible nosological or previous clinical diagnosis; 2. collect information about the general condition of the patient, assess the psychomotor and physical development of the child, the condition of the maxillofacial area; 3. prescribe and analyze (mandatory and optional) additional examination methods for children with dental pathology for differential diagnosis; 4. determine the final clinical diagnosis, adhering to ethical and legal norms, by making an informed decision and logical analysis of subjective and objective data of clinical and additional examinations, differential diagnosis under the supervision of a physician-manager in a medical institution; 5. determine the type of treatment by making an informed decision according to existing algorithms and standard schemes; 6. to carry out treatment according to existing algorithms and standard schemes under the control of the head doctor in the conditions of medical institution; 7. perform medical dental manipulations on the basis of preliminary and / or final diagnosis of caries and its complications in temporary and permanent teeth, periodontal diseases and SOPR in 	

children;
 8. comply with the requirements of ethics, bioethics and deontology in their professional activities;
 9. plan and implement preventive measures to prevent the spread of dental diseases in children.

4. Competencies and learning outcomes

Learning outcomes	Teaching methods
Have modern methods of prevention of diseases of the oral cavity in children	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

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.

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 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. Ability to collect medical information about the patient and analyze clinical data. 2. Ability to interpret the results of laboratory and instrumental research. 3. Ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergencies. 4. Ability to plan and implement measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial region. 5. Ability to design the process of medical care: to determine approaches, plan, types and principles of treatment of diseases of organs and tissues of the oral cavity and maxillofacial region. 6. Ability to determine the rational mode of work, rest, diet in patients in the treatment of diseases of organs and tissues of the oral cavity and maxillofacial region. 7. Ability to determine the tactics of management of patients with diseases of organs and tissues of the oral cavity with concomitant somatic diseases. 8. Ability to perform medical and dental manipulations. 9. Ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region. 10. Ability to organize and conduct medical activities. 11. Ability to determine tactics, methods and provide emergency medical care to sick children. 12. Ability to organize and conduct screening examinations in pediatric dentistry. 13. Ability to assess the impact of the environment on the health of the child (individual, family, population). 14. Ability to maintain regulatory medical records in pediatric dentistry. 15. Ability to process state, social and medical information. 16. Ability to organize and conduct rehabilitation activities and care for children with diseases of the oral cavity. 17. Ability to legally support their own professional activities.

5. Organization of course training

The volume of the course

Type of lesson	Total amount of hours
Lectures	20
Practical classes	110
Independent work	50

Course signs

Semester 9-10	Specialty <u>221 Dentistry</u>	Course (year of study) -5	Normative discipline
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Course thematics

THEMATIC PLAN OF LECTURES

For students of the 5th year of the 9th semester

Module №2 Diseases of periodontal tissues and oral mucosa in children. Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of major dental diseases in children.

№	Topic	Hours
1,2	Periodontal disease in children: etiology, pathogenesis. Gingivitis, periodontitis, and periodontal syndrome in children: prevalence, clinic, diagnosis, differential diagnosis, treatment and prevention.	4
3,4	Features of the structure and function of the oral mucosa in children. Viral lesions of oral mucosa: clinic, diagnosis, treatment and prevention.	4
5,6	Fungal lesions of oral mucosa in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	4
7,8	Allergic lesions of oral mucosa in children. Etiology, pathogenesis, clinic, diagnosis, treatment.	4
9,10	Manifestations in the oral cavity in diseases of the blood system in children. Clinic, diagnosis, tactics of a pediatric dentist.	4
	Total hours:	20

THEMATIC PLAN OF PRACTICAL CLASSES

in the discipline of pediatric therapeutic dentistry

For 5th year students of the 9th semester

№	Topic	Hours
Content module №1. "Periodontal tissue diseases in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prevention."		
1	Clinic, diagnosis, differential diagnosis and treatment of catarrhal gingivitis in children. The choice of drugs, methods of their use.	3
2	Clinic, diagnosis, differential diagnosis and treatment of hypertrophic gingivitis in children. The choice of drugs, methods of their use.	3
3	Clinic, diagnosis, differential diagnosis and treatment of ulcerative necrotic gingivitis in children. The choice of drugs, methods of their use.	3
4	Periodontitis in children. Clinic, diagnosis.	3
5	Principles of treatment of periodontitis in children.	3
6	Periodontal syndrome in children. Clinic, diagnosis. Tactics of a dentist.	3
7	Content module №1	3
Content module № 2. "Diseases of the mucous membrane of the mouth and lips (traumatic, viral, allergic, fungal and diseases of internal organs and systems) in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prevention".		
8	Acute herpetic stomatitis in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3

9	Manifestation in the oral cavity in infectious diseases in children. Tactics of a dentist.	3
10	Fungal lesions of the oral mucosa in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
11	Manifestation of allergies in the mouth of children of different ages. Clinic, diagnosis, treatment and prevention.	3
12	Manifestations in the oral cavity in diseases of the blood system in children. Tactics of a pediatric dentist.	3
13	Manifestations in the oral cavity in diseases of the gastrointestinal tract in children.	3
14	Manifestations in the oral cavity in diseases of the endocrine system of children.	3
15	Chronic recurrent aphthous stomatitis. Clinic, diagnosis, tactics of a pediatric dentist.	3
16	Diseases of the lips in children. Independent cheilitis. Clinic, diagnosis, treatment.	3
17	Diseases of the lips in children. Symptomatic cheilitis. Causes, clinic, diagnosis, treatment.	3
18	Diseases of the tongue in children.	3
19	Protection of medical history. Content module №2.	3
20	Diff. test.	3
	Total	60

**Thematic plan of practical classes
in the discipline of therapeutic dentistry for children
For 5th year students 10 semesters**

№	Topic	Number hours
1	Content, structure and requirements of the test license exam "Step 2" in the specialty "Dentistry". Rules for solving test problems in pediatric therapeutic dentistry, filling out the answer sheet. The main directions of prevention of dental caries. General and local cariogenic factors. Endogenous and exogenous caries prevention. Means and methods, evaluation of effectiveness.	3
2	Features of the course, diagnosis and treatment of caries of temporary and permanent teeth in children. Modern filling materials, their characteristics and choice in the practice of pediatric therapeutic dentistry.	3
3	Clinic, diagnosis and differential diagnosis of pulpitis of temporary and permanent teeth in children. The choice of treatment depending on the stage of tooth development and the form of pulpitis. Vital and devital methods of treatment: indications, methods of execution, possible complications and their prevention.	3
4	Clinic, diagnosis and differential diagnosis of periodontitis in temporary and permanent teeth in children. Modern endodontic instruments, features of endodontic interventions in temporary teeth. Forecast.	3
5	Injuries of deciduous teeth in children at different stages of root development. Tactics of a dentist. Injuries to permanent teeth in children at different stages of root development. Tactics of a dentist.	3

6	Periodontal disease in children. Gingivitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Basic principles of treatment. Choice of medicines.	3	
7	Periodontal disease in children. Periodontitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Basic principles of treatment. Choice of medicines.	3	
8	Periodontal disease in children. Periodontal syndrome. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Basic principles of treatment. Choice of medicines.	3	
9	Differential diagnosis of diseases of the mucous membrane of the mouth and lips in children of viral nature.	3	
10	Differential diagnosis of diseases of the oral mucosa and lips in children bacterial	3	
11	Differential diagnosis of diseases of the oral mucosa and lips in children allergic nature	3	
12	Differential diagnosis of diseases of the oral mucosa and lips in children with somatic diseases	3	
13	Key principles of treatment of diseases of the mucous membrane of the mouth and lips in children (somatic diseases). The choice of drugs, the mechanism of their action.	3	
14	Basic principles of treatment of diseases of the oral mucosa and lips in children (allergic in nature). The choice of drugs, the mechanism of their action.	3	
15	Basic principles of treatment of diseases of the mucous membrane of the mouth and lips in children (bacterial, viral). The choice of drugs, the mechanism of their action.	3	
16	Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of major dental diseases in children.	3	
17	Control	2	
	Total hours	50	

**THEMATIC PLAN OF INDEPENDENT WORK OF STUDENTS (IWS)
in the discipline of therapeutic dentistry for children
5 course 9-10 semesters**

№	Topic title 9 semester	Number of hours
1.	Independent elaboration of topics that are not included in the classroom plan	36
	1. Changes in the oral cavity during orthodontic treatment with removable and non-removable equipment. Clinic, treatment and prevention.	4
	2. Modern methods of diagnosing periodontal diseases (<u>Florida Probe</u> , <u>PA-ON</u>)	4
	3 Modern physiotherapeutic methods of treatment in pediatric therapeutic dentistry. Ozone therapy. Photodynamic therapy	4
	Modern physiotherapeutic methods of treatment in pediatric therapeutic dentistry. Laser therapy	4
	5 Modern antiallergic drugs in the complex therapy of SOPR in children.	4
	6. Modern methods of prevention of dental caries and periodontal diseases in children.	4
	7 Phytotherapy in the complex treatment of periodontal diseases in children.	4
	8 Modern prebiotics, probiotics, eubiotics in the complex treatment of	4

	manifestations in the oral cavity in diseases of the gastrointestinal tract in children	
	9 Pharmacodynamics of the main groups of drugs used in the treatment of periodontal diseases and oral mucosa in children.	4
2	Writing a medical history, preparation for exam	4
	Total	40
10 semester		
1	Assessment of individual risk of dental diseases and development of prevention programs.	4
2	Preparation for exam	6
	Total	10
	Total	50

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		

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.

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.

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.

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.

Evaluation of final control.

The maximum number of points that a student can score during the exam is 80 points.

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**).

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 (Table 1) and for the final control (diff.credit, exam) (Table 3).

Table 3. Scale of assessment of differentiated (exam) credit:

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.

Differentiated credit (semester control) 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).

Semester control includes control of theoretical and practical training.

Amount: minimum $72 + 50 = 122$, maximum $120 + 80 = 200$

The 2nd semester

Classroom work - score from 2 to 5 for each topic.

Final module control is evaluated from 50 to 80 points and consists of:

Test control - 40 tests = 40 points (1 point for the correct answer to 1 test).

Answer to 2 theoretical questions of 20 points for each = 40 points. Amount: 80.

Amount: minimum $72 + 50 = 122$, maximum $120 + 80 = 200$

The list of theoretical questions to prepare students for the final module control

1. The main components of the periodontium. Morpho-functional features of periodontal tissues in children of different ages.
2. Classification of periodontal diseases (according to the WHO).
3. Basic and additional methods in the examination of periodontal tissues in children. Methods for determining the PMA and CPI indices.
4. Factors leading to the development of acute catarrhal gingivitis in children and its clinical signs.
5. Factors leading to the development of chronic forms of gingivitis in children, clinical signs of chronic catarrhal gingivitis in children.
6. General and local factors of chronic hypertrophic gingivitis. Clinical signs of fibrous and granular forms of hypertrophic gingivitis.
7. Factors and conditions for the development of acute ulcerative gingivitis in children. Features of the clinical course of this form of gingivitis in children.
8. Differential diagnosis between different clinical forms of gingivitis.
9. Treatment tactics for acute catarrhal gingivitis in children. Groups of drugs used to treat acute catarrhal gingivitis in children. The mechanism of their action.
10. Treatment and prevention tactics for chronic catarrhal gingivitis in children. Groups of drugs used to treat chronic catarrhal gingivitis in children. The mechanism of their action.
11. Treatment tactics for hypertrophic gingivitis in children. Groups of drugs used to treat hypertrophic gingivitis in children. The mechanism of their action.
12. Treatment tactics for acute ulcerative gingivitis in children. Groups of drugs used for general and local treatment of this form of gingivitis in children. The mechanism of their action. Sequence of application.
13. General and local causes of localized and generalized periodontitis in children. The main clinical and radiological signs of periodontitis in children.
14. Differential diagnosis between chronic forms of gingivitis and periodontitis.
15. Therapeutic tactics for generalized periodontitis in children. Groups of drugs used in the treatment of periodontitis in children. The mechanism of their action.
16. Means and methods of prevention of periodontal diseases in children.
17. The main clinical signs and features of periodontal tissue damage in hereditary neutropenia. Therapeutic tactics.
18. Variants of the clinical course of eosinophilic granuloma. Disorders observed in periodontal tissues. Tactics of a dentist.
19. The main clinical manifestations and features of periodontal tissue damage in Hand-Schuller-Christian disease. The Christian Triad. Tactics of a dentist.
20. Features of professional oral hygiene in gingivitis in children and adolescents. Execution algorithm.
21. Features of professional oral hygiene in periodontitis in children and adolescents. Execution algorithm.
22. The main clinical manifestations and changes in periodontal tissues in Papillon-Lefebvre syndrome. Tactics of a dentist.
23. Morphological features of the oral mucosa in children at different ages.
24. Etiological factors and conditions of GHS development. General and local clinical signs of GHS in children of varying severity.
25. General and local methods of treatment of GHS. Groups of drugs used in the treatment of GHS in children. Mechanism of action.
26. Features of the clinical course, treatment tactics for recurrent oral herpes in children.
27. The causative agent and features of the clinical course of herpetic sore throat in children. Therapeutic tactics for herpetic sore throat in children.
28. Pathogen and features of the clinical course of infectious mononucleosis. Tactics of a dentist. What changes are observed in the peripheral blood in infectious mononucleosis?
29. Pathogen and features of the clinical course of measles. Characteristics of rashes. Tactics of a dentist.
30. Pathogen and features of the clinical course of scarlet fever. Describe the rash. Determine the tactics of the dentist.
31. The causative agent and features of the clinical course of diphtheria. Tactics of a dentist.
32. Classification of candidiasis SOPR in children.
33. Causes of mold in children. Clinical picture of acute candidiasis of SOPR in children of varying severity.
34. Methods and means

of local treatment of mold in children. Groups of drugs, the mechanism of their action. 35. Clinical characteristics and differential signs of chronic candidiasis SOPR in children. Methods of laboratory examination used in candidiasis SOPR in children. Interpretation of the results of mycological examination of SOPR? 36. Methods and means of treatment of chronic candidiasis SOPR in children. Groups of drugs, the mechanism of their action. 37. Methods and means of prevention of acute and chronic candidiasis SOPR in children. 38. Causes, mechanism of development and clinical manifestations of anaphylactic shock in children. The main differential features from other emergencies. 39. Principles of treatment of anaphylactic shock in children. Emergency measures. 40. Causes, mechanism of development and clinical manifestations of Quincke's edema. Principles of treatment and first aid for Quincke's edema. 41. Causes, mechanism of development and clinical manifestations of exudative erythema multiforme. 42. The main differential features of exudative erythema multiforme. Additional research methods for exudative erythema multiforme. Interpretation of results. 43. Methods and means of general and local treatment of exudative erythema multiforme. Groups of drugs used for this purpose, the mechanism of their action. 44. Causes, mechanism of development and describe the clinical course of chronic recurrent aphthous stomatitis (CRAS). Methods and means of general and local treatment of HRAS. 45. General clinical signs and manifestations in the oral cavity of iron deficiency anemia in children. Changes in peripheral blood. Tactics of a dentist. 46. General clinical signs and manifestations in the oral cavity in acute leukemia in children. Changes in peripheral blood. Tactics of a dentist. 47. General clinical signs and manifestations in the oral cavity of chronic leukemia in children. Changes in peripheral blood. Tactics of a dentist. 48. General clinical signs and manifestations in the oral cavity in hemophilia. How do the parameters and rate of peripheral blood clotting in hemophilia change? Tactics of a dentist for hemorrhagic diathesis in children. 49. Causes of development and clinical manifestations of agranulocytosis in children. Changes in peripheral blood in agranulocytosis in children? Tactics of a dentist. 50. Changes in dental status in hypo- and hyperfunction of the thyroid and parathyroid glands. Which hormones are associated with calcification of the teeth? 51. Changes in the oral cavity in children with liver and biliary tract diseases. 52. Dental status in chronic gastritis in children depending on the state of secretion and intestinal diseases in children. 53. Classification of cheilitis and the causes of lip disease in children. 54. Clinical course and differential diagnosis of meteorological cheilitis. Principles of treatment and prevention. 55. Clinical course and differential diagnosis of glandular cheilitis. Principles of treatment and prevention. 56. Clinical course and differential diagnosis of contact allergic cheilitis. Principles of treatment and prevention. 57. Clinical course and differential diagnosis of microbial cheilitis. Principles of treatment and prevention. 58. Clinical course and differential diagnosis of atopic cheilitis. Principles of treatment and prevention. 59. Clinical course and differential diagnosis of eczematous cheilitis. Principles of treatment and prevention. 60. Clinical course and differential diagnosis of lymphedematous cheilitis. Principles of treatment and prevention. 61. Causes and clinical course of desquamative glossitis. Morphological changes of the epithelium of the tongue in desquamative glossitis. Tactics of a dentist. 62. Characteristics of the clinical course of folded and rhomboid glossitis. What are the features of the structure of the tongue in folded and diamond-shaped glossitis? Tactics of a dentist. 63. The value of scientific research of domestic scientists (IY Novik, VK Leontiev, TF Vinogradova, LO Khomenko, etc.) in the creation and improvement of methods of prevention and treatment of major dental diseases in children. 64. Epidemiology of major dental diseases in children. Methods of dental examination by the WHO. Prevalence, intensity of dental caries, STI index as the main epidemiological indicators. Their characteristics, interpretation of results. 65. Assessment of the hygienic condition of the oral cavity. The purpose of the study. Hygiene indices Fedorov-Volodkina, Green Vermilion, Silnes Lowe. Methods of determination, interpretation of results. 66. Index assessment of periodontal tissues (PMA, SRI, SBI). Methods of determination, interpretation of results. 67. Homeostasis of tooth hard tissues. Mechanisms of its regulation. The role of saliva and pulp of the tooth in maintaining the

mineral composition of the hard tissues of the tooth. 68. Cariogenic situation in the oral cavity. The main components, methods of detection and elimination. The mechanism of enamel demineralization. 69. Means and methods of hygienic care of the oral cavity. Individual, controlled, professional teeth cleaning. 70. Prevention of periodontal diseases. Professional removal of dental layers. Means and methods of individual oral hygiene in periodontal diseases. 71. Hygienic training and education in the system of prevention of dental diseases. Organizational principles and methods of hygienic training and education. 72. The main directions of prevention of dental caries. Endogenous and exogenous prevention, their essence, justification of application. 73. Endogenous prevention of dental caries. Characteristics of groups of drugs used. Drawing up a prevention plan, evaluating the effectiveness. 74. Endogenous prevention of dental caries with fluoride preparations. Indications, dose determination, mechanism of action of fluorine, evaluation of effectiveness. 75. Exogenous prevention of dental caries. Modern means and methods of exogenous prevention of dental caries, evaluation of effectiveness. 76. Sealing of fissures as a method of prevention of caries of masticatory teeth in children. Classification of sealants. Indication. Terms of sealing. Invasive and non-invasive sealing. 77. Comprehensive system of prevention of dental diseases. The main components, stages of implementation. 78. Analysis and evaluation of the effectiveness of primary prevention of dental caries and periodontal disease. 79. Medical examination of children by a dentist as a method of introducing primary prevention of dental diseases. Organizational principles, methods of formation of dispensary groups. 80. Mechanisms of protection of the oral cavity, gingival sulcus. Their role in the prevention of dental caries and periodontal disease in children and adolescents. 81. The role of dental layers in the development of periodontal disease in adolescents. Methods of their detection, elimination and prevention of education. 82. The choice of methods and means for individual hygienic care of the oral cavity depending on the dental status. 83. Planning and prevention of dental caries in children of different ages. The choice of preventive measures, methods of their application. 84. Purpose, methods and means of dental examination. Identification of risk factors for the development of major dental diseases. 85. Periods of development of temporary teeth. Terms of bookmarking and mineralization of temporary teeth. Factors influencing these processes in the antenatal period. Terms and signs of physiological eruption of temporary teeth. 86. Periods of development of temporary teeth. Terms of formation and resorption. 87. Periods of development of permanent teeth. Terms of bookmarking, mineralization and eruption of permanent teeth. Factors influencing these processes in the intramandibular period of tooth development. 88. Anatomical and topographic features of the structure of temporary and permanent unformed teeth. Stages of tooth root development, their radiological characteristics. 89. Etiology and pathogenesis of dental caries in children and adolescents. Classification. The main patterns of caries of temporary and permanent teeth in children. 90. Clinic, diagnosis, differential diagnosis of caries of temporary and permanent teeth at different stages of their development in children. 91. Treatment of caries of temporary and permanent teeth in children. Modern methods of treatment. Sealing materials, their choice. 92. Treatment of caries of permanent teeth with incomplete root formation. Choice of medical and filling materials. 93. Remineralizing therapy of acute initial dental caries in children. Indications, means, methods of carrying out, criteria of efficiency. 94. Decompensated form of dental caries in children. Causes of development. Tactics of a pediatric dentist. Local and general treatment. 95. Systemic and local hypoplasia of the enamel. Causes of development, clinic, differential diagnosis, treatment and prevention. 96. Fluorosis. Causes of development, clinic, diagnosis, differential diagnosis. Tactics of treatment and prevention. 97. Hereditary defects in the development of teeth (Stainton-Capdepon syndrome, imperfect dentino- and amelogenesis). Causes of development, clinic, treatment tactics. 98. Anatomical and physiological features of the pulp of temporary and permanent teeth at different stages of tooth development. Clinic, diagnosis, differential diagnosis of acute and chronic pulpitis of temporary teeth in children. 99. Clinic, diagnosis, differential diagnosis of acute and chronic pulpitis of permanent teeth in children. 100.

Acute traumatic pulpitis of temporary and permanent teeth in children. Treatment tactics. Choice of medicines. 101. Clinic, diagnosis, differential diagnosis and treatment of pulpitis complicated by periodontitis in temporary and permanent teeth in children. 102. Biological method of treatment of pulpitis in children. Indications, methods, modern drugs, the mechanism of their action. Monitoring the effectiveness of treatment. 103. Vital amputation of the pulp of permanent teeth in children. Indications, method of execution, forecast. Modern methods of anesthesia in the treatment of pulpitis in children, the choice of drugs for local anesthesia. 104. Vital extirpation of the pulp of permanent teeth in children. Indications, methods of performance in children. Features of anesthesia in childhood, the choice of drugs for local anesthesia. 105. Devital amputation of pulp in temporary teeth. Indications, methods, choice of devitalizing agents, effectiveness control. 106. Devital extirpation of pulp in temporary and permanent teeth in children. Indications, methods of performance, control of efficiency. 107. Filling of root canals of temporary and permanent teeth in children in the treatment of pulpitis. The choice of materials for root fillings depending on the stage of tooth development. Sealing methods, efficiency control. 108. Anatomical and physiological features of the periodontium of temporary and permanent teeth in children. Growth zone, its structure, participation in tooth root formation. Radiological characteristics of the stages of root formation. 109. Classification of periodontitis. Features of the course of acute and exacerbation of chronic periodontitis of temporary and permanent teeth in children. Differential diagnosis. 110. Clinical and radiological characteristics of chronic forms of periodontitis of temporary and permanent teeth in children. Differential diagnosis. 111. Treatment of acute periodontitis of temporary and permanent teeth in children. 112. Treatment of exacerbation of chronic periodontitis of temporary and permanent teeth in children. 113. Principles of treatment of chronic periodontitis of temporary and permanent teeth in children. Choice of method of treatment of chronic periodontitis of temporary teeth. 114. Treatment of chronic periodontitis of permanent teeth with unformed roots. Methodology, efficiency control, forecast. 115. The choice of root filling in the treatment of periodontitis of temporary and permanent teeth in children. Methods of temporary and permanent obturation of root canals. 116. Classification of traumatic dental lesions in children. Clinic, diagnosis, tactics of treatment of traumatic lesions of temporary teeth. Forecast. 117. Clinic, diagnosis and tactics of treatment of traumatic injuries of permanent teeth in children.

2. The list of practical skills for final module control

1. Be able to interpret the data of cytological and microbiological examination of the contents of the periodontal pocket. 2. Be able to interpret the data of X-ray examination in periodontal disease in children. 3. Be able to interpret these hemograms in normal children of different ages, diseases of the blood system and other pathological conditions. 4. Be able to determine the severity of chronic catarrhal gingivitis according to the PMA index. 5. Be able to determine the degree of damage to periodontal tissues by the SRI index. 6. Be able to determine the hygienic condition of the oral cavity according to the Green-Vermillion index. 7. Be able to conduct individual hygienic training and education of the child depending on the dental status, in particular the condition of periodontal tissues and SOPR. 8. Be able to prescribe products for individual hygienic care of the oral cavity with different dental status, in particular for periodontal diseases and SOPR. 9. Be able to conduct professional oral hygiene for gingivitis and periodontitis in children and adolescents. 10. Be able to irrigate the mouth of children of different ages. 11. Be able to instill drugs in the gums and periodontal pockets. 12. Be able to make applications in the treatment of periodontal diseases and SOPR. 13. Be able to remove plaques and layers from the surface of the mucous membrane of the gums and other parts of the oral cavity. 14. Be able to prescribe physiotherapy methods for the treatment of periodontal diseases and SOPR in children. 15. Be able to identify risk factors for the development of major dental diseases during the dental examination of the child. 16. Be able to make an individual plan for the prevention of dental caries and periodontal disease in children. 17. Be able to determine the need for therapeutic, surgical, orthodontic care during the dental examination of the child and make an individual plan for the rehabilitation of the child. 18. Be able

to cover teeth with fluoride-containing varnish, application of fluoride-containing gel, deep fluoridation of enamel. 16. To be able to carry out sealing by fissure-invasive and invasive methods with use of various sealants. 17. Be able to determine the group of dispensary observation of the child and the individual scope of treatment and prevention measures.

Circumstance of admission to the final control	<p>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.</p> <p>2. Students are allowed to take the differentiated credit, exam only if there is no debt for the implementation of the curriculum.</p>
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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

1. Basic:

1. L.A. Khomenko, A.V. Savychuk, Ye.I. Ostapko, V.I. Shmatko, N.V. Bidenko, I.N. Golubeva, Ye.F. Kononovych, S.F. Ljubarets. Pediatric therapeutic dentistry. – Kiev. Book-plus. 2012. P. 237
2. N.I. Chukhray, E.V. Bezvushko, I.S. Dubetska-Hrabous. Preventive dentistry. Lviv, 2011. P. 138
3. Edwina A.M. Kidd. Essential of dental caries. Oxford University Press. 3th edition. – 2005. P. 191
4. David A. Mitchell and Laura Mitchell. Oxford handbook of clinical dentistry. 4th edition. - Oxford University Press. – 2005. P. 416
5. A. Cameron, R. Widmer. Handbook of pediatric dentistry. 4th edition. - 2013. P. 562
6. MSDuggal, MEJCurzon, SAFayle, KJToumba, AJRobertson. Restorative techniques in pediatric dentistry. Taylor & Francis, - 2002. P. 141

2. Additional:

1. English for Dentists = Англійська мова для стоматологів. Рекомендовано Вченою радою Національного медичного університету імені О.О. Богомольця як підручник для студентів вищих навчальних закладів – медичних університетів, інститутів й академій. Аврахова Л.Я., Паламаренко І.О., Голік О.В., та інш. 216 2020
2. Lexicon. For the medical students of universities with III-IV accreditation levels = Лексикон. Для студентов высших учебных заведений III-IV уровней аккредитации. Кисельова О.Г. 144 2019
3. Latin Language for Students of Dental Faculties=Lingua Latina ad Usum Stomatologiae Studentium= Латинська мова для англomовних студентів-стоматологів: Підручник для мед. ун-тів, інст., акад. Затверджено МОН Олена Миколаївна Беляєва, Валентина Григорівна Синиця, Лариса Юріївна Смольська та ін.; за редакцією Олени Миколаївни Беляєвої
4. Stomatology=Стоматологія: Textbook: in 2 books. — Book 2: Підручник для мед. ун-тів, інст., акад. Затверджено МОЗ Рожко Микола Михайлович, Кириленко Іван Іванович, Денисенко Олександр Григорович та ін.; за редакцією М.М. Рожка 960 2018
5. Basics of Dentistry=Основи стоматології. Рекомендовано Міністерством охорони здоров'я України як підручник для студентів вищих медичних навчальних закладів III—IV рівнів акредитації. Маланчук В. О. та ін. 616 2018
6. Infant and Young Child Nutrition (0–23 months) : recommendations=Харчування дітей перших років життя (0–23 місяців) : клінічна настанова. Катілов О. В. та ін. 64 2019
7. Manual of Children's Infectious Diseases=Дитячі інфекційні хвороби. Рекомендовано вченою радою Тернопільського національного медичного університету імені І. Я. Горбачевського як

навчальний посібник (протокол № 9 від 24 червня 2019 року). Федорців О. Є. та ін. 440
2020

8. Pediatric Physical Examination=Клінічне обстеження дитини. — 3-є вид., випр.
Рекомендовано Державною установою “Центральний методичний кабінет з вищої медичної
освіти МОЗ України” як навчальний посібник для студентів вищих навчальних закладів МОЗ
Укр Катілов О.В. та ін. 504 2021

Lector  Polishchuk I.S.