

**EDUCATIONAL COMPONENT SYLLABUS****PEDIATRIC THERAPEUTIC DENTISTRY**

Specialty: **221 Dentistry**  
Educational and professional program: **Dentistry**  
Component code in the educational program: **OK 35**  
Level of higher education: **second (master's)**  
Form of education: **full-time (full-time)**  
Year of study: **fifth**  
Semester(s): **IX (fall), X (spring)**  
Type of educational component: **mandatory**  
Academic year: **2028-2029**

Volume: **5ECTS credits ( 150 hours)**  
Training sessions: **lectures , practical classes , consultations**  
Final control: **diff . credit**  
Prerequisites : **anatomy, physiology, histology, pharmacology, therapeutic dentistry**

Department/division: **Pediatric Dentistry and Implantology** , Peremohy Ave., 51-A, 5th floor.

Head of the educational component: **Prof. Alina Grigorova**

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Educational component page in the KhNMU Distance Learning System ( Moodle ):

<https://distance.knmu.edu.ua/course/view.php?id=4051>

**DESCRIPTION OF THE EDUCATIONAL COMPONENT**

Pediatric therapeutic dentistry studies methods of examining patients, diagnosing therapeutic dental diseases, their treatment and prevention in a pediatric therapeutic dentistry clinic.

**COURSE OBJECTIVE:**to enable students to master diagnostic techniques and dental manipulations for the treatment of caries and its complications in primary and permanent teeth at various stages of their development, periodontal diseases and oral mucosa .

**LEARNING OUTCOMES:**

**know:** issues of etiology and pathogenesis of major dental diseases.

**be able:**

1. Analyze the results of a patient examination in a pediatric therapeutic dentistry clinic.
2. Determine the nature and principles of treatment of diseases in pediatric therapeutic dentistry.
3. Identify the leading symptoms and syndromes in pediatric therapeutic dentistry.
4. Identify various clinical variants and complications of the most common diseases in the pediatric therapeutic dentistry clinic.
5. Demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination in the pediatric therapeutic dentistry clinic.
6. Diagnose emergencies in a pediatric therapeutic dentistry clinic.
7. Provide necessary emergency care in emergencies in the pediatric therapeutic dentistry clinic.
8. To substantiate and formulate a preliminary clinical diagnosis in a pediatric therapeutic dentistry clinic.
9. Plan an examination of a dental patient, interpret the results of laboratory and instrumental examinations.
10. Conduct differential diagnostics in the pediatric therapeutic dentistry clinic:
11. To conduct primary and secondary prevention of the most common diseases in the pediatric therapeutic dentistry clinic.
12. Make a final diagnosis of major diseases in the pediatric therapeutic dentistry clinic.

**CONTENT OF THE EDUCATIONAL COMPONENT**

**of lecture topics (20 hours):**

1. Age-related morphological and functional characteristics of periodontal tissues in children. Prevalence of periodontal diseases in children. Classification. Features of the diagnostic procedure for periodontal diseases in children.
2. Clinical manifestations of periodontal diseases in children. Various forms of gingivitis in children (catarrhal, hypertrophic, acute ulcerative gingivitis in children.) Differential diagnosis.
3. Periodontal disease in children. Treatment approach in pediatric dentistry. Choice of drugs, methods of their application.
4. Periodontal syndrome in children. Clinical manifestations, diagnostics. Dentist's tactics. Basic principles of prevention of periodontal diseases in children.
5. Age-related morpho-functional features of the oral mucosa in children. Traumatic injuries of the oral mucosa in children.
6. Fungal lesions of the oral mucosa in children. Etiology, pathogenesis, clinical picture, diagnostics, treatment, prevention.
7. Manifestations of viral diseases in the oral cavity in children. Dentist's tactics. Acute herpetic stomatitis in children. Etiology, pathogenesis, clinical features, treatment, prevention.
8. Manifestations of allergies in the oral cavity. Clinic, diagnostics, treatment, prevention. Emergency care in the clinic of pediatric therapeutic dentistry
9. Manifestations of somatic diseases in the oral cavity in children. Clinic, diagnostics, tactics of a pediatric dentist.
10. Diseases of the lips and tongue in children. Independent and symptomatic cheilitis. Causes, clinical manifestations, diagnosis, treatment and prevention.

**List of topics of practical / laboratory classes / seminars ( 100 hours ):**

1. Peculiarities of the periodontal structure in children. Etiology, pathogenesis, classification of periodontal diseases. Diagnosis of periodontal diseases.
2. Gingivitis in children. Etiology, pathogenesis, diagnostics, clinical features, treatment and prevention of gingivitis in children
3. Periodontitis and idiopathic periodontal diseases in children. Etiology, pathogenesis, diagnostics, clinical features, treatment and prevention of periodontitis and periodontal syndromes in children.
4. Features of the structure of the oral mucosa. Diseases of the oral mucosa of traumatic and fungal origin
5. Infectious diseases of the oral mucosa
6. Allergic diseases of the oral mucosa. Manifestations of general somatic diseases on the oral mucosa. Diseases of the tongue and lips in children
7. Content, structure and requirements of the "Step-2" licensing exam in the specialty "Dentistry". Solutions to sample test tasks, rules for filling out the answer sheet.
8. Main directions of caries prevention. General and local cariesogenic factors. Endogenous and exogenous caries prevention. Means and methods, evaluation of effectiveness
9. Features of the course, diagnosis and treatment of caries of primary and permanent teeth in children. Modern filling materials, their characteristics and choice in the practice of pediatric therapeutic dentistry.
10. Non-carious lesions of hard dental tissues in children: hypoplasia, fluorosis. Etiology, clinical features, diagnostics, differential diagnostics, treatment, prevention. Hereditary disorders of the development of hard dental tissues: imperfect amelogenesis and dentinogenesis, dysplasia Stanton-Capdepon. Clinic, diagnostics, tactics of a pediatric dentist.
11. Clinic, diagnostics, differential diagnostics of pulpitis in primary and permanent teeth in children. Choice of treatment method depending on the stage of tooth development and the form of pulpitis. Conservative, vital and devital treatment methods: indications, methods of implementation, possible complications and their prevention.

12. Clinic, diagnostics and differential diagnosis of periodontitis in primary and permanent teeth in children. Modern endodontic instruments, features of endodontic interventions in temporary and permanent teeth with unformed roots
13. Periodontal disease in children. Gingivitis, periodontitis, periodontal syndrome. Etiology, pathogenesis, clinical manifestations, diagnostics, differential diagnostics. Basic principles of treatment. Selection of drugs.
14. Differential diagnosis of diseases of the mucous membrane of the oral cavity and lips in children (viral, bacterial, allergic nature and somatic diseases).
15. Basic principles of treatment of diseases of the oral mucosa and lips in children (viral, bacterial, allergic nature and somatic diseases). Selection of therapeutic agents, mechanism of their action.
16. Solutions to sample test questions for the "Step-2" licensing exam in the specialty "Dentistry".

#### **List of topics for student independent work (30 hours)**

1. Preparation for practical, seminar classes (theoretical, development of practical skills, abilities).
2. Morpho-functional features of the oral mucosa in children at different age periods. Specific and nonspecific mechanisms of oral mucosal protection in children.
3. AIDS. Etiology, clinical features, diagnostics, prevention. Features of clinical manifestations in children. Tactics of a dentist. Prevention.
4. Laboratory methods of research in periodontal tissue diseases and oral cavity diseases in children
5. Specific oral cavity infection in children (tuberculosis, syphilis, etc.). Features of clinical manifestations on the oral cavity. Tactics of a pediatric dentist.
6. Herpetic infection of the oral cavity in children. Epidemiology. Etiopathogenesis. Modern methods of diagnosis, treatment and prevention
7. Pharmacodynamics of the main groups of drugs used in the treatment of periodontal tissue and oral mucosa diseases in children.
8. Phytotherapy in the complex treatment of periodontal tissue diseases and oral cavity diseases in children.
9. Physiotherapy treatment methods in pediatric therapeutic dentistry.
10. Changes in the oral cavity during orthodontic treatment with removable and fixed appliances. Clinic, treatment and prevention.
11. Preparation for final control (PC)

VTS is aimed at deepening and consolidating theoretical knowledge obtained during classroom training and contributes to the formation of professional competencies. The results of VTS are subject to control and are included in the final knowledge control.

**Consultations:** online, with prior registration on the course page in the Distance Learning System.

**Teaching methods:** lecture, exercises and practical work, solving situational tasks and cases, standardized patient method

#### **EVALUATION**

**Current educational activity (PND).** Assessment of the success of education seekers is carried out in accordance with the Instructions for assessing the educational activity of higher education seekers at KhNMU ( <https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/> ). The assessment for a practical or final lesson is from 2 to 5 points. Submitting assignments late for unwarranted reasons entails a reduction in the grade in accordance with the percentage of delay in time from the time of completing the assignment. Assignments are checked within 24 hours. Grades are posted in the electronic journal. Unsatisfactory grades are worked out in accordance with the

Regulations on the procedure for working out academic classes by students of KNMU ( [https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_vidprac\\_zaniat.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf) ).

At the end of the semester, the average grade for the semester is converted into a multiple-point grade (70 – 120 points) in accordance with Table 1 of the Assessment Instructions (see above). The arithmetic average of the PND for both semesters constitutes **the total learning activity (GNA)** .

**Individual tasks(I)** are rated up to 10 points.

**Final control.** The condition for admission to the differential test is to obtain 70 - 120 points of the CIS. The grade for the differential test is from 50 to 80 points.

**Discipline grade (OD).**  $OD = ZND + IZ + DZ$

**Appealing the results of the final control** is carried out in accordance with the procedure established at the KhNMU ( [https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_apel\\_kontrol.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf) ).

### EDUCATION COMPONENT POLICIES

**Recommendations for course work:** actively participate in all forms of work in classes, devote 1-2 hours daily to independent work and preparation for classes, ask questions during classes , attend consultations, submit assignments on time , and complete all forms of control.

**Attendance at classes.** Attendance at lectures and practical classes is mandatory. The uniform during offline classes is a white medical gown. If you are more than 5 minutes late, you may not be allowed to attend the class. Missed classes are made up in accordance with the Regulations on the procedure for students of KNMU to complete classes ( [https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_vidprac\\_zaniat.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf) ).

**Academic integrity.** KhNMU stands on positions of zero tolerance for manifestations of academic dishonesty . Any violations of the principles of academic integrity entail liability in accordance with the procedure established at KNMU ( [https://knmu.edu.ua/wp-content/uploads/2021/05/polog\\_ad-1.pdf](https://knmu.edu.ua/wp-content/uploads/2021/05/polog_ad-1.pdf) ).

**The use of electronic gadgets and artificial intelligence tools** is permitted only with the permission of the teacher.

**Policy for individuals with special educational needs.** Applicants with special educational needs should contact a teacher to develop an individual educational trajectory.

**Teacher response time:** 24 hours.

#### Technical requirements for working on the course:

- access to a computer, laptop, tablet or smartphone
- Google account with your own photo
- Google skillsWorkspace ( Google)Meet , Docs , Sheets , Slides , Forms ) and Moodle
- *other department requirements*

**Technical support:**ASU (ev.shevtsov@knmu.edu.ua), Google (tehotdelknmu@gmail.com), Moodle (al.korol@knmu.edu.ua)

### RECOMMENDED SOURCES

1. Kaskova L. F., Vashchenko I.Yu., Bereghna O.E. Propaedeutics of children therapeutic dentistry. Kyiv, Magnoliya, 2024y. - 200p.
2. Kaskova L. F.,Yanko N. V. Preclinical manual of paediatric therapeutic dentistry. Kyiv, Magnoliya, 2025y. - 130p.
3. Kaskova L. F. "Prevention of Dental Diseases", Kyiv, Magnoliya, 2025y., 360p.
4. Kaskova L. F., Vashchenko I.Yu., "Dental diseases prevention.", Kyiv, Magnoliya, 2025y., 250p.