

**EDUCATIONAL COMPONENT SYLLABUS  
PEDIATRIC SURGICAL DENTISTRY**

Specialty: **221 "Dentistry"**

Educational and professional program: **Dentistry**

Component code in the educational program: **OK 36**

Level of higher education: **second (master's)**

Form of education: **full-time (full-time)**

Year of study: **4**

Semester(s): **VII (autumn), VIII (spring)**

Type of educational component: **mandatory**

Academic year: **2027-2028**

Volume: **3 ECTS credits (90 hours)**

Training sessions: **lectures, practical classes, consultations**

Final control: **exam**

Prerequisites: **anatomy and morphology, pathological anatomy, radiological diagnostics, surgical dentistry and maxillofacial surgery**

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

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

email: [ao.hryhorova@kntmu.edu.ua](mailto:ao.hryhorova@kntmu.edu.ua)

Educational component page in the KNTMU Distance Learning System (Moodle):  
<https://distance.kntmu.edu.ua/course/view.php?id=3551>

**DESCRIPTION OF THE EDUCATIONAL COMPONENT**

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

**OBJECTIVE** :Students will learn to examine, diagnose, and treat pediatric patients with surgical pathology of the maxillofacial region.

**LEARNING OUTCOMES:**

As a result of studying the discipline "Pediatric Surgical Dentistry", the student must be able to:

1. Analyze the results of a patient examination in a pediatric surgical dentistry clinic
2. Identify leading syndromes and symptoms in pediatric surgical dentistry
3. Determine the nature and principles of treatment in a pediatric surgical dentistry clinic
4. Use the principles of prevention of dental diseases and their complications in pediatric surgical dentistry.
5. Identify congenital and acquired defects of the maxillofacial region
6. Identify various clinical variants and complications of the most common diseases in the pediatric surgical dentistry clinic.
7. Demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination in the pediatric surgical dentistry clinic
8. Diagnose emergencies in the pediatric surgical dentistry clinic.
9. Provide necessary emergency care in the pediatric surgical dentistry clinic
10. To substantiate and formalize a preliminary clinical diagnosis in a pediatric surgical dentistry clinic
11. To substantiate and formalize a syndromic diagnosis in a pediatric surgical dentistry clinic
12. Conduct differential diagnosis of sexually transmitted diseases that require special patient management tactics.
13. Conduct a patient examination in a pediatric surgical dentistry clinic
14. To carry out surgical treatment of major dental diseases.
15. Make a final clinical diagnosis of the main diseases in the pediatric surgical dentistry clinic.

**CONTENT OF THE EDUCATIONAL COMPONENT**

**of lecture topics (10 hours):**

1. Critical conditions in pediatric dentistry and emergency care in a children's clinic and hospital.
2. Acute and chronic, odontogenic and non-odontogenic inflammatory diseases of the soft tissues of the maxillofacial region.
3. Odontogenic inflammatory diseases of the teeth and jaw bones: periodontitis, periostitis, osteomyelitis.
4. Soft tissue injuries of the maxillofacial region. Features of PHO wounds in children.
5. Injuries to teeth and jaw bones in children.

**List of topics for practical classes ( 40 hours ):**

1. Anatomical and physiological features of the development and structure of tissues and organs of the maxillofacial region in children in terms of age.
2. Analgesia for surgical interventions in the maxillofacial region in children in outpatient and inpatient settings. Features of local anesthesia techniques in children of different ages. General and local complications during and after anesthesia in children of different ages. Emergencies, their treatment and prevention.
3. Features of the operation to remove temporary and permanent teeth in children. General and local complications during and after tooth extraction in children of different ages, their treatment and prevention.
4. Odontogenic and non-odontogenic periostitis of the jaws. Acute and chronic periostitis. Etiology, clinical features, diagnostics, differential diagnosis. Treatment methods. Disease prevention. Complications and their prevention.
5. Acute odontogenic and non-odontogenic osteomyelitis of the jaws in children. Clinical and radiological forms of chronic osteomyelitis of the jaws in children. Primary chronic osteomyelitis. Etiology, clinical features, diagnostics, differential diagnostics. Treatment methods. Disease prevention. Complications and their prevention. Rehabilitation of children.
6. Acute and chronic, odontogenic and non-odontogenic maxillary abscesses in children. Odontogenic and non-odontogenic maxillary phlegmons in children.
7. Acute and chronic, odontogenic and non-odontogenic lymphadenitis. Furuncles and carbuncles of the face. Specific inflammatory diseases: features of manifestations in the maxillofacial region in children.
8. Acute and chronic inflammatory diseases of the TMJ in children. Etiopathogenesis of chronic TMJ diseases. Clinical manifestations, diagnostics, principles of treatment of chronic arthritis, secondary deforming osteoarthritis (SDOA) and ankylosis. TMJ injuries. Acute diseases of the salivary glands in children: epidemic and non-epidemic parotitis, submandibulitis. Chronic diseases of the salivary glands in children: parotitis, submandibulitis.
9. Traumatic soft tissue injuries: contusion, hematoma, bruises, wounds. Burns: thermal, chemical, electrical, radiation. Clinical features in children. Burn shock. Burn disease. Frostbite. Injuries to the maxillofacial tissues caused by animals. Diagnostics, clinical features, treatment, consequences, prevention.
10. Traumatic injuries of teeth and jaw bones. Features of the clinic, diagnostics and treatment in children. Immediate and long-term consequences of maxillofacial injuries.

**List of topics for student independent work (40 hours)**

1. Features of local anesthesia techniques in children of different ages.
2. General and local complications during and after anesthesia in children of different ages.
3. Emergencies, their treatment and prevention.
4. Features of the operation to remove temporary and permanent teeth in children.
5. Difficult eruption of primary and permanent teeth in children of different ages. Clinical features and treatment tactics.
6. Nonodontogenic periostitis of the jaws. Chronic periostitis.
7. Acute nonodontogenic osteomyelitis of the jaws in children.
8. Clinical and radiological forms of chronic osteomyelitis of the jaws in children.
9. Acute and chronic non-odontogenic maxillary abscesses in children.

10. Non-odontogenic maxillary phlegmons in children.
11. Specific inflammatory diseases: features of manifestations in the maxillofacial region in children.
12. Manifestations of blood diseases in the maxillofacial region in children. Treatment tactics.
13. Instrumental and laboratory methods of studying salivary glands in their diseases in children.
14. Clinical manifestations, diagnostics, principles of treatment of chronic arthritis, secondary deforming osteoarthritis and ankylosis.
15. Burns: thermal, chemical, electrical, radiation. Clinical features in children. Burn shock. Burn disease. Frostbite.
16. Features of the treatment of dental injuries in children.

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 exam is to score 70 points on the CIS. The exam score is from 50 to 80 points.

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

**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 on 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

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

**RECOMMENDED SOURCES**

1. Surgical dentistry and maxillofacial surgery of children: textbook / L.M. Yakovenko, V.G. Cherkasov, I.L. Chekhova and others. - 2nd edition, VSV "Medicine", 2022, 496 p.
2. Maxillofacial surgery: textbook / O.O. Timofeev. — 3rd edition, VSV "Medicine", 2022, 792 p.
3. Pediatric Oral and Maxillofacial Surgery: textbook / LV Kharkov, LM Yakovenko, NV Kiselyova. — 2nd edition , 2020, 104

Head of the Department of Pediatric Dentistry  
and implantology

Alina GRIGOROVA