

**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 : **5**

Semester(s): **IX (fall),X (spring)**

Type of educational component: **mandatory**

Academic year: **2028-2029**

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 ,**

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Educational component page in the KNTMU Distance Learning System (Moodle):
<https://distance.kntmu.edu.ua/course/view.php?id=2685>

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. Features of the course and manifestation of neoplasms in childhood. Theories of occurrence. Tumors and tumor-like formations of soft tissues of the maxillofacial region in children. Pathogenesis. Clinic. Diagnostics. Treatment.
2. Tumors and tumor-like formations of the maxillary bone tissue in children. Clinic. Differential diagnosis. Treatment.
3. Tumors and tumor-like neoplasms of the salivary glands in children. Diagnosis, differential diagnosis, clinical presentation, principles of treatment.
4. Odontogenic and non-odontogenic jaw cysts in children. Clinic. Differential diagnosis. Treatment.
5. Congenital cleft lip and palate, anatomical and functional disorders. Etiology, pathogenesis, clinical manifestations, diagnostics, methods of surgical treatment. Medical examination.

List of topics for practical classes (50 hours):

1. Tumors of soft tissues of the maxillofacial region in children (hemangioma, lymphangioma, lipoma, myoma, fibroma). Etiology, clinical features, diagnostics, treatment methods.
2. Indications for blood replacement therapy during soft tissue surgery.
3. Tumor-like formations of soft facial tissues (dermoid, teratoma, atheroma, papilloma).
4. Congenital cysts and fistulas of the neck. Neurofibromatosis. Etiology, clinical features, diagnostics, treatment.
5. Tumors of the facial bones in children (osteoblastoclastoma, osteoma, osteoid osteoma).
6. Odontogenic neoplasms of the jaws in children (ameloblastoma, odontoma, cementoma). Etiology, pathogenesis, diagnosis, differential diagnosis, clinical presentation, treatment methods.
7. Tumorous neoplasms of the jaws - cysts (follicular, residual, fissure, primary bone, eruption cyst). Diagnostic methods, differential diagnosis and treatment methods.
8. Rehabilitation of children after cystectomy and cystotomy.
9. Tumorous neoplasms of the maxillary bones: fibrous osteodysplasia, cherubism, fibrous osteodystrophy, epulides. Clinic, diagnostics, differential diagnostics, treatment.
10. Malignant tumors of the maxillary sinus tissues in children. Classification. Etiology, pathogenesis, clinical manifestations, diagnostic methods, differential diagnosis. Primary verification of malignant tumors. Principles of medical examination and treatment.
11. True tumors and tumor-like neoplasms of the salivary glands. Diagnosis, differential diagnosis, clinical presentation, principles of treatment.
12. Congenital malformations of the maxilla. Short frenulae of the lips and tongue. Small vestibule of the oral cavity.
13. Nonunion of the lip. Classification, etiology. Clinic, diagnostics, methods of surgical treatment.
14. Congenital cleft palate. Statistics. Classification. Etiology, clinical features, diagnostics, methods of surgical treatment. Comprehensive rehabilitation of patients.
15. Medical examination of children with congenital malformations of the maxillofacial region. Principles of complex treatment and rehabilitation of children with congenital defects and deformities of the maxillofacial region.
16. Regularities of the clinical course, algorithm of diagnostic, therapeutic and preventive measures, choice of method of analgesia in children with inflammatory diseases of the maxillofacial region and concomitant somatic diseases in polyclinic and hospital conditions.
17. Diagnostic criteria for benign tumors and tumor-like neoplasms of the maxillofacial region in children. Principles of medical tactics and rehabilitation at the stages of their treatment.
18. Pathognomonic clinical signs of traumatic tissue injuriesMaxillofacial trauma in children. Methods of diagnosing injuries of soft tissues, teeth, jaws. Principles of PHO of facial soft tissue wounds.
19. Methods of immobilization of teeth and jaws depending on the type of injury and the child's age. Clinic, diagnostics, differential diagnostics and treatment of ankylosis.
20. Principles of comprehensive treatment of children with congenital defects and deformities of the maxilla

List of topics for student independent work (30 hours)

1. Precancerous processes in the maxillofacial region in children. Distribution of tumors, tumor-like neoplasms of the face and jaws in children according to the international histological classification of the WHO.
2. Congenital cysts and fistulas of the neck. Etiology, clinical features, diagnostics, treatment.
3. Lipomatosis, Modelung's fatty neck. Etiology, clinical features, diagnostics, treatment.
4. Tumorous neoplasms of the jaws - cysts (follicular, residual, fissure, primary bone, eruption cyst). Diagnostic methods, differential diagnosis and treatment methods.
5. Features of cystotomy and cystectomy operations at different ages.
6. Features of differential diagnosis of fibrous osteodysplasia, cherubism, fibrous osteodystrophy.
7. Ewing's sarcoma. Etiology, pathogenesis, clinical features, diagnostic methods, differential diagnosis with acute odontogenic osteomyelitis of the jaws.
8. Cysts and fistulas of the salivary glands. Diagnosis, differential diagnosis, clinical presentation, principles of treatment.
9. Prevention of infection with specific diseases (tuberculosis, syphilis, AIDS and HIV infection) of a dental surgeon at an outpatient appointment and in a hospital setting.
10. Short lips and tongue frenulum. Small vestibule of the oral cavity. Features of surgical treatment in different age periods.
11. Nonunion of the lip. Modern methods of surgical treatment, principles of cheiloplasty surgery.
12. Congenital cleft palate. Limberg uranostaphyloplasty surgery.
13. Problems of feeding children with cleft lip and palate.
14. Treatment and prevention of pathological scars after maxillofacial surgery 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).

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 points of the CIS. The grade for the differential test 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).

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).

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).

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@knmu.edu.ua), Google (tehotdelknmu@gmail.com), Moodle (al.korol@knmu.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

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