

**SYLLABUS OF THE EDUCATIONAL COMPONENT
MAXILLOFACIAL INJURIES IN CHILDREN OF DIFFERENT AGES**

Specialty: **221 «Dentistry»**

Educational and Professional Program: **Dentistry**

Component Code in the Educational Program: **EC 68**

Level of Higher Education: **Second (Master's level)**

Mode of Study: **Full-time (daytime)**

Year of Study: **5**

Semester(s): **I (Fall), II (Spring)**

Type of Educational Component: **Elective**

Academic Year: **2028-2029**

Credits: **3 ECTS (90 hours)**

Types of Classes: **Lectures, practical classes, consultations**

Final Assessment: **Pass/Fail credit**

Prerequisites: **Completion of basic disciplines: human anatomy, normal and pathological physiology, pharmacology, biochemistry, microbiology, therapeutic dentistry, surgical dentistry, prosthetic dentistry, pediatric dentistry**

Department / Unit: **Department of Dentistry**, 51 Peremohy Avenue, 7th floor

Course Coordinator: Associate Professor **Tatyana Viktorivna Tomilina**

email: tv.tomilina@knmu.edu.ua

DESCRIPTION OF THE EDUCATIONAL COMPONENT

The elective educational component «Maxillofacial Injuries in Children of Different Ages» focuses on acquiring knowledge about the peculiarities of maxillofacial trauma in children of various age groups. Most maxillofacial injuries in children are accompanied by post-traumatic deformities, which may lead to delayed development of soft tissues and facial skeleton growth and can often result in child disability. Studying this course «Maxillofacial Injuries in Children of Different Ages» will help students determine the type of injury, establish an accurate diagnosis, and select the most appropriate treatment methods.

COURSE OBJECTIVE: The aim of the course is to provide theoretical and practical training for future dentists in mastering modern methods of diagnosis, treatment, and prevention of traumatic injuries of the maxillofacial region in children, taking into account the type of trauma and the age-related characteristics of the child's body.

LEARNING OUTCOMES:

1. perform a clinical examination of a child with maxillofacial trauma;
2. analyze medical history and examination results to determine the type and severity of the injury;
3. develop a treatment plan considering age-related characteristics;
4. provide first medical aid in cases of injuries to soft tissues, teeth, and facial bones;
5. perform basic procedures such as immobilization, aseptic treatment, and fixation;
6. collaborate with related specialists (traumatologists, neurosurgeons, pediatricians) in cases of combined injuries.

CONTENT OF THE EDUCATIONAL COMPONENT

Lecture Topics (4 hours):

1. Peculiarities of maxillofacial injuries in children. Developmental features of the organs of the facial skull. Development of cranial bones and facial skeleton
2. Acute dental trauma in children

Practical / Laboratory / Seminar Topics (26 hours):

1. Birth trauma of the maxillofacial region
2. Injuries of the jaw bones in children. Traumatic shock.
3. Complications in the treatment of children with maxillofacial trauma
4. Clinical features of wounds depending on their location (head, face, neck)
5. Trauma of the oral mucosa in children and specific treatment strategies
6. Primary surgical treatment of facial wounds in children.
7. Peculiarities of managing traumatic dental injuries in children of different age groups

Independent Student Work (70 hours)

1. Developmental features of the facial skull
2. Development of cranial bones and facial skeleton
3. Features of mandibular fractures during childbirth
4. Clinical manifestations of maxillofacial trauma
5. Treatment methods for maxillofacial injuries
6. Diagnosis of soft tissue wounds of the maxillofacial region
7. First aid and primary surgical management of facial soft tissue injuries
8. Acute dental trauma in children and classification of traumatic dental injuries

Independent work is aimed at deepening and consolidating theoretical knowledge obtained during classroom learning and contributes to the formation of professional competencies. The results of independent work are subject to assessment and are included in the final evaluation..

Consultations: Online consultations are available with prior registration on the course page in the distance learning system.

<https://distance.knmu.edu.ua/course/index.php?categoryid=63>

Teaching Methods: Lectures, Practical exercises, Solving situational tasks and case studies, Standardized patient method

ASSESSMENT

Current Academic Performance (CAP) Assessment of student performance is carried out according to the Instruction on the Assessment of Educational Activities of Higher Education Students at KNMU (<https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/>). The grade for a practical or final class ranges from 2 to 5 points. Late submission of assignments without a valid reason results in a grade reduction proportional to the delay. Assignments are checked within 24 hours, and grades are recorded in the electronic journal. Unsatisfactory grades must be retaken according to the Regulations on the Procedure for Making Up Missed Classes by KNMU Students (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf).

At the end of the course, the average grade is converted into a multi-point score (70–120 points) according to the evaluation instruction table (see above). The arithmetic average of current academic performance forms the **overall academic activity score (OAA)**.

Individual Assignments (IA) are graded up to 10 points.

Final Assessment. The final assessment includes completing a test package of 30 questions covering the course material. Passing criterion: **90%** correct answers

Final Course Grade (FCG). $FCG = OAA + IA + \text{Credit Test}$

Appeals of final assessment results are conducted according to the procedures established at KNMU. (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf).

COURSE POLICIES

Recommendations for Course Work: to participate actively in all practical activities, dedicate 1–2 hours daily to independent study and preparation, ask questions during classes, attend consultations, submit assignments on time and complete all assessment activities

Attendance. Attendance at lectures and practical classes is mandatory. Students arriving more than 5 minutes late may not be admitted to class. Missed classes must be completed according to KNMU regulations (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf).

Academic Integrity. KNMU follows a zero-tolerance policy toward academic dishonesty. Any violation leads to disciplinary action in accordance with university regulations (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_ad-1.pdf).

Use of Electronic Gadgets and AI Tools Allowed only with the instructor’s permission.

Policy for Students with Special Educational Needs. Students with special educational needs should contact the lecturer to develop an individual educational trajectory

Lecturer Response Time: 24 hours.

Technical Requirements:

- Access to a computer, laptop, tablet, or smartphone
- A corporate Google account with a personal photo
- Skills in using Google Workspace (Meet, Docs, Sheets, Slides, Forms) and Moodle
- *Other departmental requirements*

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

RECOMMENDED SOURCES

1. Khirurgichna stomatolohiya ta shchelepno-lytseva khirurgiya dytyachoho viku: pidruchnyk / L.M. Yakovenko, V.H. Cherkasov, I.L. Chekhova ta in.; za red.. prof.. L.M. Yakovenko. — 2-e vyd, pererobl. ta dopovn. – K.: VSV «Medytsyna», 2022. – 496s.
2. Obstezhennya ditey z khirurgichnymy zakhvoryuvannyamy shchelepno-lytsevoyi dilyanky / pid red. L.M. Yakovenko. Kyv : Knyha-plyus, 2022. 264 s

Additional sources:

1. Yehorov R. I., Yefymenko V. P. Renthenolohichna diahnostyka perelomiv vyrostkovoho vidrostka nyzhn'oyi shchelepy v ditey. Paediatric Surgery (Ukraine). 2022. № 3(76). S. 36-40 doi 10.15574/PS.2022.76.36
2. Guo H. Q., Yang X., Wang X. T., Li S., Ji A. P., Bai J. Epidemiology of maxillofacial soft tissue injuries in an oral emergency department in Beijing: A two-year retrospective study. Dental traumatology : official publication of International Association for Dental Traumatology. 2021
3. Pan Y., Zhu H., Hou L. Epidemiological analysis and emergency nursing care of oral and craniomaxillofacial trauma: a narrative review. Annals of palliative medicine. 2022. № 11(4). P. 1518–1525 <https://doi.org/10.21037/apm-21-2995>

Acting Head of the Department of Dentistry

Tatyana TOMILINA