

**EDUCATIONAL DISCIPLINE SYLLABUS  
SURGICAL PREPARATION OF THE ORAL CAVITY  
FOR PROSTHETIC TREATMENT**

Specialty: **221 «Dentistry»**

Educational and Professional Program: **Dentistry**

Component Code in the Educational Program: **BK 78**

Higher education level: **Second (Master's)**

Form of the Educational Component: **full-time  
(daytime)**

Year of study: **5**

Semester(s): **IX (spring)**

Type of Educational Component: **elective**

Academic Year: **2028–2029**

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

Training sessions: **practical classes,  
consultations**

Final control: **pass/fail credit**

Prerequisites: **CC4, CC7, CC10 CC 14,  
CC25 , CC29**

Department / Unit: **the Department of Surgical Dentistry and Maxillofacial Surgery,**  
Peremohy Ave., 51, 6 Floor

Head of the Educational Component:

**doctor of medicine, professor Grigorov Serhiy Mykolayovych,**  
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Educational Component Page in the Distance Learning System KhNMU (Moodle):  
<https://distance.knu.edu.ua/course/index.php?categoryid=309>

**DESCRIPTION OF THE EDUCATIONAL COMPONENT**

The elective educational component «Surgical preparation of the oral cavity for prosthetic treatment» covers the main practical as well as theoretical aspects of the future dentist's activities regarding surgical preparation of the oral cavity for prosthetic treatment, from anesthesia methods to complex surgical interventions in the maxillofacial area.

**PURPOSE OF THE COURSE:** The acquisition of knowledge and practical skills by students, as well as the formation and development of their ability to make independent decisions, apply knowledge in further learning, and in professional activities within the field of surgical dentistry.

**LEARNING OUTCOMES:**

- ability to prepare a patient for surgical dental intervention;
- ability to demonstrate the main methods of patient examination in the surgical dentistry clinic;
- ability to analyze the results of a dental patient examination in the surgical dentistry clinic;
- ability to determine the final clinical diagnosis;
- ability to perform differential diagnosis of diseases of the maxillofacial region;
- acquisition and improvement of practical skills in periodontal reconstructive and restorative plastic surgery;
- development of professional skills and competencies to make independent decisions regarding treatment methods based on the clinical diagnosis in the surgical dentistry clinic;
- ability to identify various clinical variants and complications of the most common diseases in the surgical dentistry clinic;
- ability to complete essential medical documentation of a dental appointment;
- ability to provide care for the postoperative area;
- knowledge of the clinical presentation of main emergency conditions and algorithms for providing urgent medical care;

- development of understanding and adherence to the moral and deontological principles of a medical professional in the surgical dentistry clinic.

### **CONTENT OF THE EDUCATIONAL COMPONENT**

#### **List of Practical Session Topics (20 hours):**

1. Features of patient examination at the stage of surgical preparation of the oral cavity for prosthetic treatment. topographic and anatomical features of the jaws and oral cavity in partial and complete edentulism. Modern classifications of quantitative and qualitative parameters of jaw bone tissue. Planning the extent of surgical preparation of the oral cavity depending on the type of future prosthetic rehabilitation. selection of anesthetic management for operative dental surgery.
2. Orthopedic indications for tooth and root extraction. Tooth-preserving surgical interventions. periodontal tissue surgeries. guided bone regeneration. stimulation of osteogenesis during the stage of surgical preparation of the oral cavity. Platelet concentrates. Growth factors and their influence on the regeneration of hard and soft oral tissues.
3. Surgical preparation of oral soft tissues: frenulum plastic surgery of the lip and tongue, correction of scar deformities and muscle bands, fibrotic changes of the oral mucosa. Vestibuloplasty: principles and surgical techniques using free mucosal and skin grafts.
4. Surgical preparation of jaw bone tissue: alveolotomy, removal of exostoses, vertical and horizontal alveolar ridge augmentation, repositioning of the inferior alveolar nerve. Open and closed sinus-liftsng: indications, surgical techniques, and modifications.
5. General and local complications of surgical interventions. Early and late inflammatory complications at the stage of surgical preparation of the oral cavity for prosthetic treatment. Wound dehiscence, hemorrhage. Maxillary sinus perforation, Schneiders membrane tears, insufficient osteogenesis, therapeutic approaches.

#### **List of Student Independent Work Topics (70 hours):**

1. Types of defects of dental arches and alveolar processes of the jaws, their characteristics. aims and objectives of surgical preparation of the oral cavity for prosthetic treatment. The role of radiographic diagnostic methods at the stage of patient examination and surgical intervention planning.
2. Extraction of teeth and roots based on orthopedic indications.
3. Tooth-preserving surgical interventions: methodology, indications, and contraindications for surgery.
4. Vestibuloplasty: history of the method, principles, and surgical techniques using local tissues, free mucosal, and skin grafts.
5. Surgical aspects of dental implantation in the preparation of the oral cavity for prosthetic treatment (endosseous, subperiosteal, submucosal implantation).
6. History of the sinus lift method. open and closed sinus lift: indications, surgical techniques, modifications, and complications.
7. Use of auto-, allo-, and xenotransplantation in surgical preparation of the oral cavity. osteogenic and osteoinductive techniques: indications, materials, methods, and outcomes.
8. Methods of graft fixation during bone grafting surgery (titanium miniplates and screws, titanium membranes, reinforced collagen membranes, and others).
9. Modern suture materials. techniques for suturing soft tissues during surgical preparation of the oral cavity. mechanisms of scar formation. surgical and conservative treatment methods for pathological scars.

Independent Study Work (ISR) is aimed at deepening and consolidating the theoretical knowledge acquired during classroom learning and contributes to the development of professional competencies. The results of ISR are subject to control and are included in the final assessment of knowledge.

**Consultations:** Online, by prior registration on the course page in the Distance Learning System.

**Teaching Methods:** Lecture, performing exercises and practical tasks, solving situational problems and case studies, and the standardized patient method.

## EVALUATION

**Current Learning Activities (CLA).** Student performance is assessed in accordance with the Instructions for Evaluating the Academic Activities of Higher Education Students at KhNMU (<https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/>). The grade for a practical or final session ranges from 2 to 5 points. Submitting assignments late without a valid reason results in a grade reduction proportional to the delay time relative to the assignment deadline. Assignments are checked within 24 hours. Grades are recorded in the electronic gradebook. Unsatisfactory grades must be remedied in accordance with the Regulations on the Procedure for Students to Make Up Unsatisfactory Work KhNMU Classes / Educational Sessions ([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)).

The grades for the GEA (General Educational Activity) are calculated as the arithmetic average of the semester grades for the discipline (rounded to two decimal places) according to Table 2. The GEA is then converted into a multi-point scale according to Table 2 (Appendix 2), ranging from 120 to 200 points, with a mark of either "passed" or "failed."

**Appealing the results of the final control** Is conducted in accordance with the procedure established by 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)).

## POLICIES OF THE EDUCATIONAL COMPONENT

**Recommendations for working on the course:** Actively participate in all forms of class activities, dedicate 1–2 hours daily to independent work and preparation for classes, ask questions during sessions, attend consultations, submit assignments on time, and complete all forms of assessment.

**Attending classes.** Attendance at lectures and practical classes is mandatory. The required attire for in-person sessions is a white medical coat. If you are more than 5 minutes late, you may be denied entry to the class. Missed sessions must be made up in accordance with the Regulations on the Procedure for Students to Make Up Missed Educational Sessions at the educational institution KhNMU ([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.** The KhNMU maintains a zero-tolerance policy toward any forms of academic dishonesty. Any violations of the principles of academic integrity entail responsibility in accordance with the procedure established by the KhNMU ([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)).

**Use of Electronic Devices and Artificial Intelligence Tools** Allowed only with the Teacher's permission.

**Policy on Students with Special Educational Needs.** Students with special educational needs should contact the instructor to develop an individual educational plan.

**Teacher Response Time:** 24 hours.

### Technical Requirements for the Course:

- Access to a computer, laptop, tablet, or smartphone
- Corporate Google account with a personal photo
- Skills in using Google Workspace (Google Meet, Docs, Sheets, Slides, Forms) ra Moodle

**Technical Support: LMS (Learning Management System)** (ev.shevtsov@knmu.edu.ua), Google (tehotdelknmu@gmail.com), Moodle (al.korol@knmu.edu.ua)

**RECOMMENDED RESOURCES**

1. Oral and Maxillofacial Surgery. Pt. 1 / ed. V. Malanchuk. - 2nd ed., updated. - Vinnytsya : Nova Knyha Publ. - 440 p.- 2018.
2. Oral and Maxillofacial Surgery. Pt. 2 / ed. V. Malanchuk. - 2nd ed., updated. - Vinnytsya : Nova Knyha Publ. - 296 p. – 2018.
3. Oral and Maxillofacial Surgery. Edited by Lars Andersson DDS, PhD, Karl-Erik Kahnberg DDS, M. Anthony (Tony) Pogrel DDS. / © 2010 Blackwell Publishing Ltd
4. Oral and maxillofacial surgery diseases. Edited by Crispian Scully, Stephen R Flint, Jose V Bagan, Stephen R Porter and Khursheed F Moos. / © 2010 Informa UK Ltd, except as otherwise indicated.
5. PETERSON'S PRINCIPLES OF ORAL AND MAXILLOFACIAL SURGERY Second Edition. Michael Miloro - Editor G. E. Ghali • Peter E. Larsen • Peter D. Waite - Associate Editors. / 2004 BC Decker Inc Hamilton • London.

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Maxillofacial Surgery

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