

EDUCATIONAL DISCIPLINE SYLLABUS**PLASTIC AND RECONSTRUCTIVE SURGERY**

Specialty: **221 «Dentistry»**

Educational and Professional Program: **Dentistry**

Component Code in the Educational Program: **EC 65**

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

Form of the Educational Component: **full-time**

(daytime)

Year of study: **5**

Semester(s): **VIII (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 "Plastic and Reconstructive Surgery" is aimed at familiarizing higher education students with modern methods of diagnosing and treating diseases of the jaw and facial region (JFR). It involves integrating the subject with other educational components of dentistry and developing skills to apply the acquired knowledge in further learning and professional activities.

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 analyze and assess facial defects, as well as the general and psycho-emotional status of the patient;
- Ability to examine patients with defects and deformations resulting from congenital defects, mechanical trauma, gunshot injuries, burns, or post-inflammatory diseases in the surgical dentistry clinic;
- Ability to examine patients with diseases of the jaw and facial region, as well as assess peripheral lymph nodes in the jaw and neck area;
- Ability to analyze the results of dental patient examinations in the surgical dentistry clinic;
- Ability to determine the final clinical diagnosis;
- Ability to perform differential diagnosis of diseases of the jaw and facial region;
- Acquisition and improvement of practical skills in treating patients with surgical pathologies of the jaw and facial tissues;
- Development of professional skills and abilities to make independent decisions when choosing 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 of the jaw and facial region in the surgical dentistry clinic;
- Ability to complete the basic medical documentation for a dental consultation;
- Ability to justify the choice of osteoplastic materials when performing jaw augmentation surgeries and sinus lifting;
- Knowledge of the clinical presentation of major emergency conditions and the algorithm for providing emergency medical care;
- Development of moral and deontological principles for medical professionals in the surgical dentistry clinic.

CONTENT OF THE EDUCATIONAL COMPONENT

List of Practical Session Topics (30 hours):

1. Types of Plastic and Reconstructive Surgeries of the Jaw and Facial Region (JFR) in Historical Context.
2. The goal and objectives of reconstructive surgery. Basics of planning plastic surgeries. Plastic surgery using local tissues to eliminate salivary fistulas, jaw contractures, and in frenuloplasty and vestibuloplasty surgeries.
3. Modern osteoplastic materials. Their use in surgical practice for jaw augmentation, sinus lift surgery, treatment of patients with jaw cysts, periodontitis, and perforative sinusitis.
4. Immunological, biological, and biomechanical aspects of bone, cartilage, and other tissue transplantation. Application of autografts, allografts, and xenografts in maxillofacial surgery for the treatment of jaw defects and deformities.

List of Student Independent Work Topics (60 hours):

1. Possibilities and timing of reconstructive surgeries after the removal of malignant tumors.
2. Modern concepts of free tissue complex transplantation.
3. Modern concepts of micro-surgical interventions in reconstructive surgeries of the jaw and facial region (JFR).
4. Plastic surgery using local tissues for the replacement of post-operative and post-traumatic defects and deformations of tissues.
5. Modern understanding of free organ and tissue transplantation. Principles for overcoming tissue incompatibility.
6. Osteoplasty and chondroplasty for congenital and acquired defects.
7. Elimination of defects in the nose, lips, cheeks, and chin using local tissues, flaps on pedicles.
8. Free skin grafting in surgeries of the jaw and facial region. Types of skin grafts, their advantages and disadvantages.
9. Osteogenic and osteoinductive therapy in the regeneration of bone tissues.
10. Basic principles, techniques, and types of plastic surgeries on the face and jaws.

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).

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).

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).

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).

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.

Head of the Department
of Surgical Dentistry and
Maxillofacial Surgery

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