

EDUCATIONAL DISCIPLINE SYLLABUS**MODERN DIAGNOSIS OF DISEASES OF THE TEMPOROMANDIBULAR JOINT (TMJ) AND SALIVARY GLANDS**

Specialty: **221 «Dentistry»**

Educational and Professional Program: **Dentistry**

Component Code in the Educational Program: **EC 55**

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

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

Year of study: **4**

Semester(s): **VIII (spring)**

Type of Educational Component: **elective**

Academic Year: **2027–2028**

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:

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Educational Component Page in the Distance Learning System KhNMU (Moodle):

<https://distance.knmu.edu.ua/course/index.php?categoryid=309>

DESCRIPTION OF THE EDUCATIONAL COMPONENT

The elective educational component "Modern Diagnostics of Diseases of the Temporomandibular Joint (TMJ) and Salivary Glands" is aimed at familiarizing higher education students with modern methods of diagnosing and treating TMJ diseases. It involves the integration of the subject with other educational components of dentistry and the development of skills to apply the acquired knowledge in further learning and professional activities in the surgical dentistry clinic.

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 conduct a patient interview and, based on it, make a record in the medical history;
- Ability to conduct an examination of patients with salivary gland diseases in the surgical dentistry clinic;
- Ability to conduct an examination of patients with temporomandibular joint (TMJ) diseases, as well as an examination of peripheral lymph nodes in the jaw and neck region;
- 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 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 for making independent decisions in 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 TMJ diseases in the surgical dentistry clinic;
- Ability to complete the basic medical documentation for a dental consultation;
- Ability to conduct the prevention of dental diseases;
- 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 (20 hours):

1. Inflammatory diseases of the salivary glands of non-calculous origin. Classification, pathological anatomy, clinical presentation, modern diagnostic methods for salivary gland diseases, treatment.
2. Non-specific diseases of the salivary glands of non-calculous origin. Sialosis, sialopathies. Pathological anatomy, clinical presentation, diagnostic methods, treatment.
3. Classification, clinical presentation, differential diagnosis, and treatment of inflammatory and dystrophic diseases of the temporomandibular joint (TMJ). The possibilities of arthroscopy and arthroscopic surgery for TMJ diseases.
4. Principles of comprehensive examination of patients with temporomandibular joint contracture, temporomandibular joint pain dysfunction syndrome. Basics of differential diagnosis, surgical treatment methods for ankylosis and contractures of the lower jaw. Etiology, pathogenesis, diagnosis, treatment.

List of Student Independent Work Topics (70 hours):

1. Features of the structure of the temporomandibular joint (TMJ) depending on the types of bite.
2. Groups of medications used in the treatment of inflammatory and dystrophic processes of the salivary glands and TMJ.
3. Physiotherapeutic methods for treating diseases of the salivary glands and TMJ.
4. Pathological anatomical changes in inflammatory and dystrophic diseases of the salivary glands and TMJ.
5. Main and additional modern diagnostic methods for patients with TMJ and salivary gland diseases.
6. Clinical presentation and treatment of TMJ dysfunction.
7. Differential diagnosis of arthritis and arthrosis of the TMJ.
8. Surgical anatomy of the salivary glands and temporomandibular joint.
9. Conservative treatment methods for TMJ diseases.
10. Surgical methods for treating TMJ diseases, TMJ plastic surgery.
11. Modern views on the etiology of salivary gland diseases. Plastic removal of salivary gland fistulas.
12. Surgical methods for treating contracture of the lower jaw.
13. Conservative treatment methods for contracture of the lower jaw.
14. Temporomandibular joint pain dysfunction syndrome.

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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