

**SYLLABUS OF THE EDUCATIONAL COMPONENT  
SYNDROMES AND SYMPTOMS IN DENTISTRY**

Specialty: **221 «Dentistry»**

Educational and Professional Program: **Dentistry**

Component Code in the Educational Program: **EC 64**

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

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

Year of Study: **4**

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

Type of Educational Component: **Elective**

Academic Year: **2027-2028**

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, propaedeutics of therapeutic dentistry, therapeutic dentistry, propaedeutics of surgical dentistry, surgical dentistry, propaedeutics of prosthetic dentistry, prosthetic dentistry, propaedeutics of pediatric dentistry, pediatric dentistry, internal medicine, endocrinology**

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

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

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**DESCRIPTION OF THE EDUCATIONAL COMPONENT**

The elective educational component «Syndromes and Symptoms in Dentistry» focuses on mastering the knowledge of clinical syndromology of borderline somatic diseases, pathological changes of the maxillofacial region, and particularly of the oral mucosa. This knowledge significantly facilitates diagnosis and helps in selecting the most optimal treatment methods while considering the underlying disease.

**COURSE OBJECTIVE:** To provide theoretical and practical training for future practicing dentists and to develop their understanding of the integrity of the human organism from the perspective of chronic somatic diseases and their manifestations in the maxillofacial region and particularly in the oral cavity

**LEARNING OUTCOMES:**

1. Conduct a clinical examination of a patient with identification of primary and additional symptoms;
2. Analyze and interpret the combination of clinical signs to formulate a preliminary diagnosis;
3. Differentiate syndromes of dental and somatic diseases;
4. Formulate a syndromic diagnosis and determine causal relationships between symptoms;
5. Use diagnostic algorithms to clarify the nosological form of the disease.
6. Identify and describe the main syndromes and symptoms of dental diseases.
7. Justify clinical diagnostic decisions based on the analysis of symptom complexes.
8. Apply knowledge of syndromes for early diagnosis, prognosis, and prevention of dental and somatic pathologies.
9. Demonstrate clinical thinking, logic of differential diagnosis, and ethical behavior in interaction with patients.

**CONTENT OF THE EDUCATIONAL COMPONENT**

**Lecture Topics (4 hours):**

1. Physiological conditions and somatic diseases requiring special management of dental patients
2. Manifestations of genetic pathologies in dentistry

**Topics of Practical / Laboratory Classes / Seminars (16 hours):**

1. Diagnostic criteria of cardiovascular disease manifestations in dentistry
2. Diagnostic criteria of endocrine system disease manifestations in dentistry
3. Diagnostic criteria of gastrointestinal system disorders in dentistry
4. Diagnostic criteria of autoimmune pathology manifestations in dentistry
5. Diagnostic criteria of diseases of blood and hematopoietic organs in dentistry
6. Diagnostic criteria of cardiovascular disease manifestations in dentistry

**Topics for Independent Student Work (70 hours)**

1. Influence of the general health condition on dental diseases in children and adolescents
2. Oral manifestations of specific pathologies
3. Condition of periodontal tissues in cardiovascular system disorders
4. Condition of the oral cavity in adults and children with type 1 and type 2 diabetes mellitus
5. Manifestations of systemic connective tissue diseases on the oral mucosa and in the maxillofacial region
6. Peculiarities of examination of dental patients with suspected genetic disorders
7. Peculiarities of examination of dental patients with diseases of the respiratory system and mediastinum
8. Peculiarities of examination of dental patients with ENT pathologies
9. Peculiarities of examination of dental patients with infectious and parasitic diseases in dentistry

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](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](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](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](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**

#### **Basic Literature:**

1. Henetychna patolohiya i yiyi stomatolohichni proyavy: Navchal'nyy posibnyk dlya dlya stomatolohiv, simeynykh likariv, henetykiv.// Nataliya Kitsera, Larysa Koval'chuk, Mykola Rozhko Ivano- Frankivs'k-L'viv, 2021. 240 s.
2. Mykhaylovs'ka N. S. Stomatolohichni osoblyvosti vedennya khvorykh iz patolohiyeyu vnutrishnikh orhaniv: navch. posib. dlya studentiv III-IV kursu med. f-tu za prohramoyu navch. dystsypliny «Vnutrishnya medytsyna (u t.ch. infektsiyni khvoroby, epidemiolohiya ta klinichna farmakolohiya)» / N. S. Mykhaylovs'ka, I. O. Stetsyuk, S. M. Manuylov. – Zaporizhzhya : ZDMFU, 2023. – 114 s.

#### **Additional Literature:**

1. Bohatu S. I. Patohenetychna rol' bakteriyi Helicobacter pylori v rozvytku zapal'nykh zakhvoryuvan' porozhnyny rota / S. I. Bohatu, YA. V. Rozhkova's'ky, S. A. Shnayder. Innovatsiyi v stomatolohiyi. 2022. № 1. S. 2–11. URL:[http://nbuv.gov.ua/UJRN/innvstom\\_2022\\_1\\_3](http://nbuv.gov.ua/UJRN/innvstom_2022_1_3)
2. Vas'ko M. YU. Osoblyvosti vzayemozv'yazku zakhvoryuvan' tkanyn parodontu z somatychnymy zakhvoryuvannyamy (ohlyad literatury) / M. YU. Vas'ko, I. M. Tkachenko // Ukrayins'ky stomatolohichnyy al'manakh. – 2023. – № 1. – S. 6–11. URI <https://repository.pdmu.edu.ua/handle/123456789/23808>
3. Labush, YU. Z. Otsinka efektyvnosti kompleksnoho likuvannya khronichnoho kataral'noho stomatytu v khvorykh iz patolohiyeyu shlunkovo-kyskovoho traktu / YU. Z. Labush // Aktual. probl.

suchasn. med. : Visn. Ukr. med. stomat. akad. : naukovopraktychnyy zhurnal. - 2025. - T. 25, № 2. - S. 112-115 - ISSN 2077-1096

4. Maksymenko, A. Tsukrovyy diabet ta yoho vplyv na stan porozhnyny rota u ditey / A. Maksymenko, O. Sheshukova, T. Polishchuk, V. Trufanova, K. Kazakova, S. Bauman, O. Pysarenko // Problemy endokrynnoyi patolohiyi, 81(3), (2024). – S. 61–67. Rezhym dostupu <https://doi.org/10.21856/j-PEP.2024.3.08>
5. Poberezhna H.M. Stomatolohichni zakhvoryuvannya u khvorykh z patolohiyeyu shlunkovokyshkovoho traktu: ohlyad literatury. / H.M. Poberezhna, V.M. Kulyhina, N.H. Hadzhula, A.V. Povshenyuk, M.A. Horay, L.F. Kurdysh // Visnyk Vinnyts'koho natsional'noho medychnoho universytetu. – 2023. – T.27. – №2. – S. 323-330. URI <https://dspace.uzhnu.edu.ua/jspui/handle/lib/59834>
6. Pylypiuk, O. Y., Kulygina, V. M., Shinkaruk-Dykovytska, M. M., & Gadzhula, N. G. (2023). Efektyvnist likuvannya kariiesu zubiv u ditei prepubertatnoho i pubertatnoho viku z yuvenilnym revmatoidnym artrytom [The effectiveness of dental caries treatment in children of prepubertal and pubertal age with juvenile rheumatoid arthritis]. *Reports of Vinnytsia National Medical University*, 27(1), 63–68. [https://doi.org/10.131393/reports-vnmedical-2023-27\(1\)-12](https://doi.org/10.131393/reports-vnmedical-2023-27(1)-12)

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