

**SYLLABUS OF THE EDUCATIONAL COMPONENT
HIV/AIDS – PROBLEMS AND PROSPECTS**

Speciality: **221 Dentistry**
Educational and professional program: **Dentistry**
Component code in the educational program: **EC 54**
Higher education level: **second (master's degree)**
Form of education: **Full-time**
Year of study: **4th**
Semester(s): **VII (autumn) or VIII (spring)**
Type of educational component: **elective**
Academic year: **2027-2028**

Volume: **3.0 credits ECTS (90 hours)**
Training sessions: **practical classes, consultations**
Final control: **credit**
Prerequisites: **“Medical biology”, “Human anatomy”, “Histology, cytology and embryology”, “Physiology”, “Microbiology, virology and immunology”, “Patomorphology”, “Patophysiology”, “Pharmacology”**

Department/Unit: **Dermatovenereology, Surgical Dermatology and Medical Cosmetology**
Head of the educational component: **associate professor Pustova Nataliia Oleksandrivna**
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Page of the educational component in the Distance Learning System of KhNMU (Moodle):
<http://31.128.79.157:8083/course/index.php?categoryid=32>

DESCRIPTION OF THE EDUCATIONAL COMPONENT

Current Issues in HIV Infection teaches methods of examination and diagnosis of HIV infection, opportunistic infections of the skin and mucous membranes, and enable students to master specific clinical skills used in the treatment of patients with this pathology.

PURPOSE OF THE COURSE: The objective of teaching the academic discipline "Current Issues in HIV Infection" is the professional development of a future specialist capable of solving clinical problems using the acquired knowledge and skills from the discipline, which involves the integration of teaching this discipline with other disciplines.

LEARNING OUTCOMES:

- Understanding and knowledge of the clinical manifestations of skin and venereal diseases in HIV/AIDS, at a level sufficient to solve professional problems in the healthcare sector.
- Identify and recognize leading clinical symptoms and syndromes, using standard methods, preliminary patient history data, and patient examination data to establish a preliminary clinical diagnosis of the disease.
- Collect complaints, life history and medical history, evaluate information regarding the diagnosis based on the results of laboratory and instrumental studies.
- Establish the final clinical diagnosis by making a reasoned decision and analyzing the subjective and objective clinical data obtained, conducting differential diagnosis, while adhering to relevant ethical and legal norms.
- Determine the nature and principles of patient treatment.

CONTENT OF THE EDUCATIONAL COMPONENT**List of topics of practical classes (20 hours):**

1. Epidemiology of HIV infection in the world and Ukraine. Recent advances in the diagnosis, treatment and prevention of this disease. Prospects for the development of a preventive vaccine, chemoprophylaxis.

Legal, moral, psychological aspects of HIV infection. Regulatory documents of the Ministry of Health of Ukraine governing the procedure for voluntary testing, hospitalization, treatment of patients, implementation of preventive measures, as well as legal aspects regarding HIV infection.

Rules for conducting pre-test and post-test counseling depending on the result: positive, negative, indeterminate. Appropriate completion of medical documentation, algorithm of actions for the patient and physician.

2. Etiopathogenesis of HIV infection from a modern perspective. Modern approaches to diagnosis, management tactics and treatment of HIV infection. Principles of clinical follow-up (dispensary care) for patients with HIV infection. Classification of HIV infection.

Stage of acute HIV infection. Clinical manifestations of stage 1 HIV infection (asymptomatic course, persistent generalized lymphadenopathy).

3. HIV-associated diseases characteristic of stage 3 HIV infection encountered in dental practice: oral candidiasis (peculiarities of the course), hairy leukoplakia, acute necrotizing ulcerative stomatitis, gingivitis or necrotizing ulcerative periodontitis. Their clinical presentation, diagnosis, treatment and prevention.

4. HIV-associated diseases characteristic of stage 4 HIV infection. HIV wasting syndrome, HIV encephalopathy. Clinical manifestations, principles of diagnosis of the main diseases encountered in dental practice: herpes of the nasolabial folds, lips, candidal lesions. Kaposi's sarcoma disseminated endemic mycoses. Their diagnosis, treatment and prevention.

General and specific prevention of HIV infection. Universal safety measures and organization of physicians' work to prevent HIV infection among healthcare workers. Safety techniques during invasive procedures. Measures in case of contamination with infectious material in the workplace.

(Credit).

List of topics of independent work of the student (70 hours)

Epidemiology of HIV infection in the world and Ukraine. Recent advances in the diagnosis, treatment and prevention of this disease.

Prospects for the development of a preventive vaccine, chemoprophylaxis.

Legal, moral, psychological aspects of HIV infection. Regulatory documents of the Ministry of Health of Ukraine governing the procedure for voluntary testing, hospitalization, treatment of patients, implementation of preventive measures, as well as legal aspects regarding HIV infection.

Rules for conducting pre-test and post-test counseling depending on the result: positive, negative, indeterminate. Appropriate completion of medical documentation, algorithm of actions for the patient and physician.

Etiopathogenesis of HIV infection from a modern perspective. Modern approaches to diagnosis, management tactics and treatment of HIV infection. Principles of clinical follow-up (dispensary care) for patients with HIV infection.

Classification of HIV infection.

Stage of acute HIV infection. Clinical manifestations of stage 1 HIV infection (asymptomatic course, persistent generalized lymphadenopathy).

HIV-associated diseases characteristic of stage 2 HIV infection encountered in dental practice: angular cheilitis, recurrent aphthous stomatitis, seborrheic dermatitis. Their clinical presentation, diagnosis, treatment and prevention.

HIV-associated diseases characteristic of stage 3 HIV infection encountered in dental practice: oral candidiasis (peculiarities of the course), "hairy" leukoplakia, acute necrotizing ulcerative stomatitis, gingivitis or necrotizing ulcerative periodontitis. Their clinical presentation, diagnosis, treatment and prevention.

HIV-associated diseases are characteristic of stage 4 HIV infection. HIV wasting syndrome, HIV encephalopathy. Clinical manifestations, principles of diagnosis of the main diseases encountered in dental practice: herpes of the nasolabial folds, lips, candidal lesions. Kaposi's sarcoma disseminated endemic mycoses. Their diagnosis, treatment and prevention.

General and specific prevention of HIV infection. Universal safety measures and organization of physicians' work to prevent HIV infection among healthcare workers. Safety techniques during invasive procedures. Measures in case of contamination with infectious material in the workplace.

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

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Consultations: offline/online, according to the schedule of the department or by pre-registration, indicating the method of registration.

Teaching methods:

Performance of exercises and practical tasks, solving situational problems and clinical cases, standardized patient method.

EVALUATION

Current Educational Activity (CEA). The assessment of student progress is carried out in accordance with the Instructions for Evaluating the Educational Activities of Higher Education Students at KhNMU (<https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/>).

The grade for a practical or final lesson ranges from 2 to 5 points. Submitting assignments late without a valid reason entails a reduction in grade according to the percentage of delay relative to the task completion time. Assignments are checked within 24 hours. Grades are entered into the electronic grade book. Unsatisfactory grades must be retaken in accordance with the Regulation on the Procedure for Making Up Missed Classes by KhNMU Students (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf).

At the end of the course, the average grade for the semester is converted into a multi-point scale (120-200 points) according to Table 1 of the Evaluation Instructions (see above) - this constitutes the General Educational Activity (GEA).

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

Course Grade (CG). $CG = GEA + IA$.

Appealing the results of the final control is carried out in accordance with the procedure established at KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf).

EDUCATIONAL COMPONENT POLICIES

Coursework recommendations: Actively participate in all forms of in-class activities; devote 1–2 hours daily to independent study and preparation for classes; ask questions during classes; attend consultations; submit assignments on time; and complete all forms of assessment.

Class attendance: Attendance at lectures and practical classes is mandatory. The required dress code for offline classes is a white medical coat. In case of being more than 5 minutes late to a lecture or practical class, the student may be denied admission to the class. Missed classes must be made up in accordance with the Regulations on the Procedure for Making Up Missed Classes by Students of Kharkiv National Medical University: https://knmu.edu.ua/wp-content/uploads/2021/05/pol_por-vidprac-zaniat.pdf

Academic integrity: Kharkiv National Medical University adheres to a zero-tolerance policy regarding academic misconduct. Any violation of the principles of academic integrity entails responsibility in accordance with the procedures established by the University: https://knmu.edu.ua/wp-content/uploads/2021/05/polog_ad-1.pdf

Use of electronic gadgets and artificial intelligence tools is permitted only with the instructor's authorization.

Policy for students with special educational needs: Students with special educational needs must contact the instructor to develop an individual educational trajectory.

Instructor's response time: 24 hours.

Technical requirements for the course:

- access to a computer, laptop, tablet or smartphone
- Corporate Google account with your own photo
- skills in working with Google Workspace (Google Meet, Docs, Sheets, Slides, Forms) and Moodle
- other requirements of the department

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

RECOMMENDED LITERATURE

1. Dermatology, Venereology: textbook / V.I. Stepanenko, A.I. Chobotar, S.O. Bondar et al. Kyiv: Medicine, 2020. 336 p.
2. Practical Course in Dermatology, Venereology: study guide / V.I. Stepanenko, A.I. Chobotar, S.O. Bondar et al. Kyiv: Medicine, 2021. 360 p.
3. Dermatology. Venereology: textbook. Ed. by T.V. Svyatenko, I.V. Svystunov / L.A. Bolotna, V.S. Hlushok, O.I. Denysenko et al. Vinnytsia: Nova Knyha, 2024. 656 p.
4. Diagnostics in Dermatology: textbook / T.V. Svyatenko, L.A. Bolotna, O.I. Denysenko et al. Vinnytsia: Nova Knyha, 2025. 384 p.

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