

**MINISTRY OF HEALTH PROTECTION OF UKRAINE  
ODESSA NATIONAL MEDICAL UNIVERSITY**

**Faculty of medicine, international  
Department of Hygiene and Medical Ecology Syllabus of the academic discipline  
"Nosocomial infections"**

<b>Scope of the academic discipline</b>	Total number of hours per discipline: 90 hours, 3 credits Semesters: XII 6th year of study.
<b>Days, time, place of training disciplines</b>	According to the schedule of classes. Department of Hygiene and Medical Ecology, Odesa, str. Pasteur 11.
<b>Teaching h(s)</b>	Professor Babienko Volodymyr Volodymyrovych, Doctor of Medicine, Doctor of Science in Technology Doctor of Medicine Associate Professor Kobolev Evgeny Volodymyrovych Doctor of Medicine Associate Professor Horoshkov Oleg Vitaliyovych Art. teacher Sheikh Ali Dani Huseynovych Senior teacher Shanygin Anton Viktorovych Senior teacher Vatan Maya Mykolaivna Anastasia Rozhnova's assistant
<b>Contact Information</b>	Help by phone: Sheikh Ali Dani Husseynovych, Head of Department 063-765-08-18 E-mail: shejx.ali@onmedu.edu.ua Face-to-face consultations: from 2:00 p.m. to 5:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday Online consultations: from 4:00 p.m. to 6:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday by appointment. The link to the online consultation is provided to each group during classes separately.

**COMMUNICATION**

**Communication with applicants will be conducted in the classroom (face-to-face).  
During distance learning, communication is carried out through the Microsoft Teams platform, as well as through e-mail correspondence, Telegram messenger (through groups created for ABSTRACT OF THE COURSE**

The subject of the study of the discipline is nosocomial infections, their causes, etiology, epidemiology, principles of the epidemic process, ways of prevention, in particular, compliance with the sanitary and anti-epidemic regime of medical and preventive institutions of various profiles

Prerequisites and post-requisites of the discipline (place of the discipline in the educational program):

Prerequisites: Ukrainian language (by professional direction), foreign language (by professional direction), Latin language and medical terminology, medical biology, medical and biological physics, biological and bioorganic chemistry, human anatomy, histology, cytology and embryology, physiology, microbiology, virology and immunology, life safety; basics of bioethics and biosafety, pathomorphology, pathophysiology, pharmacology, propaedeutics of pediatrics, medical psychology, otorhinolaryngology, ophthalmology, neurology, psychiatry, narcology, dermatology, venereology.

Postrequisites: hygiene and ecology, internal medicine, surgery, obstetrics and gynecology, infectious diseases, epidemiology and principles of evidence-based medicine, oncology and radiation medicine, traumatology and orthopedics, phthisiology, anesthesiology and intensive care, emergency and emergency medical care, hygiene and ecology, palliative and hospice medicine, general practice (family medicine).

The purpose of the discipline: To form in the applicant modern ideas about intra-hospital infections, their causes, etiology, epidemiology, principles of the epidemic process, ways of prevention, in particular compliance with the sanitary and anti-epidemic regime of medical and preventive institutions of various profiles. Tasks of the discipline:

The main tasks of studying the discipline "Intrahospital Infections" are assimilation by the acquirers of knowledge:

- Acquaintance of applicants with a general idea of hospital infections.
- Review of the significance of hospital morbidity.
- Studying the reasons for the increase and widespread spread of hospital infections.
- Study of factors that contribute to the formation of hospital strains.
- Study of features of pathogenesis, clinic and prevention of VLI. of each group, separately

As a result of studying the academic discipline, the applicant must:

Know:

- Methods of diagnosis of hospital infections in hospitals of various profiles
- General principles of prevention of nosocomial infections
- Types and methods of disinfection
- Methods of sterilization of medical instruments.

Be able:

- Diagnose nosocomial infections in hospitals of various profiles
- Carry out all types of disinfection at the LPU
- Perform pre-sterilization cleaning of medical devices
- Carry out chemical and physical sterilization

## DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

Forms and methods of education

The discipline will be taught in the form of seminar classes (30 hours); organization of the applicant's independent work (60 hours).

Teaching methods: conversation, solving clinical situational problems, working with laboratory devices, solving test problems.

### Content of the academic discipline

**Topic 1.** Infection control in the practice of a nurse as a patient safety technology

**Topic 2.** Peculiarities of diagnosis of hospital infections in hospitals of various profiles

**Topic 3.** General principles of prevention of nosocomial infections

**Topic 4.** Types and methods of disinfection

**Topic 5.** Chemical disinfection

**Topic 6.** Disinfection of medical products

**Topic 7.** Cleaning the premises of medical and preventive institutions

**Topic 8.** Treatment of the hands of medical personnel

**Topic 9.** Medical waste

**Topic 10.** Final disinfection

**Topic 11.** Preventive disinfection

**Topic 12.** Methods of pre-sterilization cleaning

**Topic 13.** Central sterilization department

**Topic 14.** Physical

**Topic 15.** Chemical method of sterilization

List of recommended literature:

### Main:

1. Nosocomial infections and infection control: training. manual / V.M. Kozko, K.V. Yurko, G.O. Straw man - Kyiv: VSV "Medicine", 2020. - 296 p.

2. Infectious diseases: textbook / V.M. Kozko, G.O. Solomennyk, K.V. Yurko and others; under the editorship V.M. goat - K.: VSV "Medicine", 2019. - 312 p

3. Hygiene propaedeutics; textbook: in 2 vols. T1/ V.V., Babienko, A.V. Mokiyyenko - Odesa: Press-courier, 2022. 400p.

4. Hygiene propaedeutics; textbook: in 2 volumes T2/ V.V. Babienko, A.V. Mokiyyenko - Odesa: Press-courier, 2022. 400p.

### Additional:

1. Pharmaceutical hygiene.: study guide/ V.V., Babienko, A.V. Mokienko, O.A. Gruzevskyi - Odesa: Press-courier, 2022. 324 p.

2. "Hygiene in the practice of a dentist"; educational and methodological manual/ Babienko V.V., Mokiienko A.V., Kobolev E.V./ Odesa: Press-courier. 2022 180 p.

### 13. Electronic information resources

1. <http://moz.gov.ua> – Ministry of Health of Ukraine
2. [www.ama-assn.org](http://www.ama-assn.org) - American Medical Association / AmericanMedicalAssociation
3. [www.who.int](http://www.who.int) - World Health Organization
4. [www.dec.gov.ua/mtd/home/](http://www.dec.gov.ua/mtd/home/) - State Expert Center of the Ministry of Health of Ukraine
5. <http://bma.org.uk> - British Medical Association
6. [www.gmc-uk.org](http://www.gmc-uk.org) - General Medical Council (GMC)
7. [www.bundesaerztekammer.de](http://www.bundesaerztekammer.de) – German Medical Association

### EVALUATION

Forms and methods of ongoing control: conversation, solving situational problems, practicing skills, filling out protocols on the topic of classes, performing laboratory tests

#### Current evaluation criteria in practical training

Forms and methods of final control: assessment, at the last session of the educational component.

Perfectly "5"	The student is fluent in the material, takes an active part in discussing and solving the situational problem, confidently demonstrates practical skills during laboratory research, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
Fine "4"	The applicant has a good command of the material, participates in the discussion and solution of the situational problem, demonstrates practical skills during laboratory and research with some errors, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
Satisfactorily "3"	The applicant does not have sufficient knowledge of the material, is unsure of participating in the discussion and solution of the situational problem, demonstrates the practical skills of laboratory research with significant errors.
Unsatisfactorily "2"	The applicant does not possess the material, does not participate in the discussion and solution of the situational problem, does not demonstrate the practical skills of laboratory research.

Forms and methods of final control: assessment, at the last session of the educational component.

- the grade "credited" is given to the applicant who has completed the work program of the educational component and has no academic debt; the level of competence is high (creative);

– the grade "failed" is given to the applicant who has not completed the work program of the educational component, has academic debt (average score lower than 3.0 (120 points) and/or missed classes); the level of competence is low (receptive-productive)

Possibility and conditions of obtaining additional (bonus) points: not provided.

## **INDEPENDENT WORK OF HIGHER EDUCATION ACQUIRES**

Independent work involves preparation for each practical lesson and test.

## **EDUCATIONAL DISCIPLINE POLICY**

Deadlines and Rescheduling Policy:

the next teacher.

- Absences due to valid reasons are processed according to an individual schedule with the permission of the dean's office.

Academic Integrity Policy:

Observance of academic integrity by applicants is mandatory, and

exactly:

- independent performance of all types of work, tasks, forms of control provided for by the work program of this educational discipline;
- references to sources of information in the case of using ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- provision of reliable information about the results of one's own educational (scientific) activity, used research methods and sources of information.

Unacceptable in educational activities for participants of the educational process are:

- using family or official ties to obtain a positive or higher grade during any form of control of learning outcomes or advantages in scientific work;
- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-earphones, telephones, smartphones, tablets, etc.) during control measures;
- passing procedures for control of training results by fake persons.

For violation of academic integrity, students may be held to the following academic responsibility:

- a decrease in the results of assessment of control work, assessment in class, credit, etc.;
- repeated evaluation (test, credit, etc.);
- appointment of additional control measures (additional individual tasks, control works, tests, etc.);
- additional inspection of other works authored by the violator.

Attendance and Tardiness Policy:

Uniform: a medical gown that completely covers the outer clothing, or medical pajamas, a cap, a mask, and a change of shoes.

Equipment: textbook, notebook, dictionary, pen.

State of health: applicants suffering from acute infectious diseases, including respiratory diseases, are not allowed to attend classes.

A student who is late for class can attend it, but only if it is in the journal

Use of mobile devices:

Mobile devices may be used by students with the permission of the instructor if they are needed for the assignment.

Behavior in the audience

The behavior of applicants and teachers in the classrooms must be working and calm, strictly comply with the rules established by the Regulations on academic integrity and ethics of academic relations at Odessa National Medical University, in accordance with the Code of Academic Ethics and University Community Relations of Odessa National Medical University, Regulations on Prevention and detection of academic plagiarism in the research and educational work of students of higher education, scientists and teachers of Odessa National Medical University.

Absences of classes for non-respectable reasons are made up according to the schedule.