Department of general and clinical epidemiology and biosafety

### Syllabus of the academic discipline

"Basics of infection control"

Scope of the	90 hours, 3 credits
academic	11 - 12 semesters,
discipline	6th year of study
Days, time, place of	Department of general and clinical of epidemiology
training	and biosafety,
disciplines	St. Primorsky Boulevard, 13
	Days and time - according to the class schedule
Teacher(s)	Golubyatnikov M.I.,doctor of medicine, professor, head of the department.  Professors:Doctor of Medicine Bachynska O.V., Doctor of Medicine. A. I. Savchuk, Doctor of Medicine. K.O.
	Talalaev, Doctor of Medicine. Haidey V.R.
	Associate professors: Servetskyi S.K., Fedorenko T.V.
	Assistants: T.V. Gerasimenko, G.M. Jurtubaeva, O.A.
	Melnyk, K.S. Hrytsenko, L.V. Kostolonova, M.O.
	Makarenko.
	Help by phone: Melnyk O.A., phone number - 0965920621, responsible for organizational and educational work of the department phone Gavrushko T.G., laboratory assistant departments; phone - 0681241260
Contact Information	olena.kozishkurt@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: with 16.00 to 18.00 Each Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday. Link to 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, Viber

Department of general and clinical epidemiology and biosafety

messengers (through groups created in Viber for each group, separately through the head of the group).

#### ABSTRACT OF THE EDUCATIONAL DISCIPLINE

The subject of study of the disciplineare: nosocomial infections, or infections associated with the provision of medical care, their mechanisms and ways spread, preventive measures and prevention of occurrence among patients and medical personnel.

The goal of disciplineare: formation of modern thinking among future doctors and understanding of the need to acquire special knowledge, skills and abilities from the basics, principles and rules of conducting and observing infection control (IC) in medical and preventive facilities (MI) of various profiles in order to reduce morbidity, mortality and economic losses due to the development of healthcare-associated infections (HCI).

Tasks of the discipline:

- formation of a system of knowledge, abilities and skills regarding the causes and etiology of HCAI, the purpose and components of IC, components of the epidemic process, the laws of epidemiology according to L.V. Gromashevskyi, the basics of HCAI prevention, the rules of asepsis and antiseptics, the rules of disinfection and sterilization;
- the ability to apply professional and legal standards in everyday professional practice, in particular during the implementation of IR;
- acquiring the ability to recognize and interpret signs of health and its changes in patients and to determine clinical manifestations in the development of HCAI;
- acquiring the ability to meet the needs of the patient/client by planning, assisting and performing various types of care, taking into account the prevention of the development of HCAI;
- the ability to apply professional skills, medical devices, interventions and actions to ensure the patient/client decent treatment, privacy/intimacy/, confidentiality, protection of his rights, physical, psychological and spiritual needs on the basis of tolerant and non-judgmental behavior to prevent the development of HCAI:
- acquiring the ability to effectively apply a set of medical skills (skills), medical devices, interventions and actions to provide care based on a holistic (holistic) approach, taking into account the risks of the development of HCAI in the conditions of inpatient treatment;
- acquiring the ability to effectively apply a set of professional skills (skills), medical devices, interventions and actions in assessing the functional state of patients/clients, preparing them for diagnostic studies and taking biological material for laboratory studies, taking into account measures to prevent the development of HCAI;
- preserve the specialist's own health when providing care, performing manipulations and procedures, when moving and transporting the patient/client;

Department of general and clinical epidemiology and biosafety

- mastering the basics of preventive activities aimed at preserving and strengthening the health of a medical worker, preventing the development of HCAI among medical personnel;
- acquiring the ability to organize, implement and control safety of the treatment process in palliative and hospice care, to prevent the development of HCAI;
- acquiring the ability to detect clinical manifestations of diseases related to the provision of medical care;

Expected learning outcomes.

As a result of studying the academic discipline, the applicant should: Know

- essence of infection control;
- basic provisions on the prevention of infections associated with the provision of medical care;
- the organizational structure of the infection control system management;
- foundations of epidemiological supervision of HCAI;
- value of microbiological monitoring; Be able:
- to organize a complex of preventive and anti-epidemic measures regarding HCAI;
- to organize health protection measures to prevent the development of HCAI among medical workers;
- to organize the training of medical personnel on the prevention of the development of HCAI;
- implement the principles of infection control.

#### DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

Forms and methods of education

The discipline will be taught in the form of practical classes (30 hours), organization of independent work of applicants (60 hours).

Methods teaching: conversation, role players games, solution clinical situational problems, practicing skills

Content of the academic discipline

- Topic 1. Inpatient infection, as specific epidemic process.
  - Topic 2. Organization and carrying out epidemiological supervision by infections associated with the provision of medical care.
  - Topic 3. development standard operational procedures (SOP) ofprevention of major HCAI.
- Topic 4. Support of sanitary-hygienic and anti-epidemic regime in medical and preventive institutions.
  - Topic 5. Hand hygiene of medical personnel and prevention of HCAI.
  - Topic 6. Infections in the area of surgical intervention and their prevention.
  - Topic 7. Catheter-associated (vascular and urinary) infections and their prevention.

Department of general and clinical epidemiology and biosafety

Topic 8. Ventilator-associated pneumonia and their prevention.

List of recommended literature Main:

- 1. Order of the Ministry of Health No. 1614 dated 08/03/2021 "On the organization of infection prevention and infection control in health care institutions and institutions/institutions providing social services/social protection of the population".https://zakononline.com.ua/documents/show/502234 684240
- 2. World Health Organization and the United Nations Children's Fund, WASH in health care facilities: Global Baseline Report 2019, WHO and UNICEF, Geneva, 2019.http://apps.who.int/iris
- 3. National Guidelines for Infection Prevention and Control in Healthcare Facilities Ministry of Health and Family Welfare, Government of India 2020https://www.mohfw.gov.in/pdf/National%20Guidelines%20for%20IPC%20in%20HCF%20-%20final%281%29.pdf

Additional:

- 1. BTRP Ukraine 2021 INTERNATIONAL BIOTHREAT REDUCTION SYMPOSIUM ABSTRACT BOOKhttps://swmprogramua.com/ibtrs-2021/
- 2. V. Anargh, Maj Harpreet Singh, Aniket Kulkarni, Col Atul Kotwal, Air Cmde Ajoy Mahen Hand hygiene practices among health care workers (HCWs) in a tertiary care facility in Punehttps://pubmed.ncbi.nlm.nih.gov/24532935/
- 3. Mustikawati B, Chalidyanto D, Syitharini N IMPROVING HAND HYGIENE COMPLIANCE THROUGH WHO'S MULTIMODAL HAND HYGIENE IMPROVEMENT STRATEGY. JUMMEC 2020:23(Suppl 1) 212 https://jummec.um.edu.my/article/download/25857/12133

#### **EVALUATION**

Forms and methods current control: oral (poll), practical (solving situational problems).

#### Current evaluation criteria in the lesson

Perfectly	It is presented to the applicant when he shows deep, solid and
"5"	systematic knowledge in the scope of the curriculum, answers all
	questions without mistakes, reasonably formulates conclusions,
	using materials presented for independent work of the applicant,
	competently and consistently, with knowledge of the
	methodology, completed practical work; right
	using scientific terms and concepts.
Fine	The acquirer reveals the main content of the educational material;
"4"	gives incomplete definitions of concepts; admits inaccuracies
	when using scientific terms, vaguely formulates conclusions,
	performed practical work, but made minor mistakes
	errors during the research.

Department of general and clinical epidemiology and biosafety

Satisfactorily	The applicant reproduces the basic educational material, but
"3"	makes significant mistakes when presenting it, gives simple
	examples, definitions of concepts are insufficient, characterizes
	general issues of social medicine.
Unsatisfactorily	Getter fragmentary reveals content
"2"	educationalmaterial, makes gross mistakes in
	defining concepts and
	when using terminology, did not perform practical work.

Forms and methods of final control: Credit is awarded to an applicant who has completed all sections of the educational program of the elective discipline, has actively participated in seminars, has a current grade point average of at least 3.0, and has no academic debt.

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

### INDEPENDENT WORK OF HIGHER EDUCATION ACQUIRES

Independent work involves preparation for each lesson.

#### EDUCATIONAL DISCIPLINE POLICY

Deadlines and Rescheduling Policy:

- Absences of classes for non-respectable reasons will be worked out according to the schedule of the teacher on duty.
- skips with respectable working reasons by individuals chedule with the permission of the dean's office. out Academic Integrity Policy:

Observance of academic integrity by applicants is mandatory, and exactly:

- independent implementation everyone species works, tasks, forms control, provided by the work program of this academic discipline;
- references to sources of information in case of use of 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:

the use of family or official ties to obtain a positive or higher grade during any form of control of academic performance or academic merit;

Department of general and clinical epidemiology and biosafety

- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-earphones, telephones, smartphones, tablets, etc.) during control measures;
- going through procedures for monitoring the results of training 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 the control work, assessment in class, credit, etc.;
- retaking the assessment (test, credit, etc.);
- assignment of additional control measures (additional individual tasks, control works, tests, etc.);
- conducting an 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: notebook, pen, phonendoscope.

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 if the teacher has put "nb" in the journal, he must complete it in the general order.

*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 should be working and calm, strictly comply with the rules established Provisions on academic integrity and ethics of academic relations at Odessa National Medical University, in accordance withof the Codeof academic ethics and relations of the university community of Odessa National Medical University, Provisions 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.