

**MINISTRY OF HEALTH PROTECTION OF UKRAINE**  
**ODESSA NATIONAL MEDICAL UNIVERSITY**  
**Department of occupational**  
**pathology and functional**  
**diagnostics and**  
**phthisiopulmonology**

**Syllabus of the academic discipline**  
**"Anti-tuberculosis measures in epidemic foci of tuberculosis infection"**

<b>Scope of the academic discipline</b>	Total number of hours per discipline: 90 hours, 3 credits. IX-X semesters, 5th year of study
<b>Days, time, place of training disciplines</b>	According to the schedule of classes. Department of occupational pathology and functional diagnostics and phthisiopulmonology Odesa, str. French boulevard 40. State institution specialized (special) sanatorium "Arkadia" of the Ministry of Health of Ukraine.
<b>Teacher(s)</b>	Matsegora N.A., doctor of medicine, professor of the department. Docent: Ph.D. Spota O.E., Ph.D. Kaprosh A.V. Assistants: Omelyan L.P., Zaitsev A.S.
<b>Contact Information</b>	Help by phone: Shpota Olena Evgenivna, responsible for international work at the department, 0685326315 Zaitsev Andrii Serhiiyovych, 093-144-81-06 E-mail: <a href="mailto:kaftub@onmedu.edu.ua">kaftub@onmedu.edu.ua</a> 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 3:00 p.m. to 4:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday. 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, Viber messengers (through groups created in Viber for each group, separately through the head of the group).

## **ABSTRACT OF THE EDUCATIONAL DISCIPLINE**

*Subject of discipline study*—measures for the organization of detection, diagnosis, differential diagnosis, treatment and prevention of extrapulmonary forms of tuberculosis.

*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; basics of bioethics and biosafety, pathomorphology, pathophysiology, radiology, pharmacology, propaedeutics of internal medicine, propaedeutics of pediatrics, radiology, hygiene and ecology.

*Post-requisites:* internal medicine (pulmonology, endocrinology), surgery, otolaryngology, neurology, infectious diseases, epidemiology, pediatrics, childhood infections, general practice (family medicine).

*Goal:* mastery of master of medicine degree holders with a set of knowledge, skills, and abilities to carry out anti-epidemic measures in the focus of tuberculosis infection, aimed at preventing new cases of infection and tuberculosis disease in contact persons.

### ***Task:***

- 1) To acquire knowledge about the source of tuberculosis infection.
- 2) To acquire skills and abilities to determine the clinical criteria of TB cases.
- 3) Master the knowledge and ability to implement the algorithm of actions of specialists of institutions/services within the framework of epidemiological surveillance of TB.
- 4) To master the procedure for carrying out epidemiologic surveillance of contacts with a case of TB.
- 5) Master preventive measures in the focus of tuberculosis infection.
- 6) Master the quality standards of epidemiological surveillance of TB.

### ***Expected results***

**As a result of studying the academic discipline, the student of higher education must:**

### **Know:**

- 1) diagnosis and differential diagnosis of tuberculosis;
- 2) the concept of the focus of tuberculosis infection. Categories of centers

- according to the degree of epidemic danger;
- 3) infection control: administrative, engineering, individual protection;
  - 4) primary prevention (BCG vaccination);
  - 5) secondary prevention (chemoprophylaxis) of tuberculosis, indications, methods of implementation;
  - 6) sanitary and sanitary-educational prevention, their tasks;
  - 7) measures to prevent tuberculosis among persons working in anti-tuberculosis institutions;
  - 8) how to prevent infection of people from animals with tuberculosis;
  - 9) preventive measures at the inpatient and outpatient stages of TB treatment and categories of dispensary records.

**Be able:**

- 1) to diagnose various clinical forms of tuberculosis;
- 2) to characterize the center of tuberculosis infection according to the degree of epidemic danger; determine ways of TB infection;
- 3) formulate the basic principles of infection control;
- 4) to demonstrate knowledge and order carrying out primary (BCG-vaccinations) for the prevention of tuberculosis;
- 5) to determine knowledge and order carrying out secondary prevention tuberculosis (chemoprophylaxis);
- 6) to formulate preventive measures for sanitary and sanitary-educational prevention, their tasks;
- 7) register tuberculosis cases;
- 8) demonstrate the formation of moral and ethical and deontological qualities during professional communication with the patient, as well as the principles of professional subordination in phthisiology.

## DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

### ***Forms and methods of education***

Discipline will be taught in form of practical classes (30 hours), organization of students' independent work (60 hours).

### *Teaching methods:*

*Practical training* reveals the problematic issues of the relevant sections of the discipline. They can be held in the following forms: seminar-lecture, seminar-discussion, seminar-round table, seminar-consultation, seminar-practical class (using oral and written survey, solving test tasks, solving situational problems).

*Independent work of applicants (SRZ) with active consultation of the teacher* (during independent work, the applicants master the educational material of the next practical session. At the consultations, the applicant can get answers to difficult questions of the topic).

### *Content of the academic discipline*

Topic 1. Organization of medical care for tuberculosis patients: detection, diagnosis,

treatment, prevention, dispensary supervision.

Topic 2. Methods of examining a patient with tuberculosis.

Topic 3. The concept of the focus of tuberculosis infection.

Topic 4. Social prevention. Infection control: administrative, engineering, individual protection.

Topic 5. Primary prevention of TB (BCG vaccination). Secondary prevention (chemoprophylaxis) of tuberculosis.

Topic 6. Sanitary prevention, its tasks.

Topic 7. The main barriers that people face during TB treatment.

Topic 8. General principles of tuberculosis treatment. Antimycobacterial drugs. Standard treatment regimens for patients with tuberculosis.

Topic 9. The concept of chemoresistance. Categories of treatment of patients with tuberculosis. Criteria for treatment of tuberculosis patients.

Topic 10. Clinical-laboratory and instrumental monitoring of the quality of treatment.

## LIST OF RECOMMENDED LITERATURE:

### -main:

1. Phthisiatry: a textbook / V. I. Petrenko, L. D. Todoriko, L. A. Hryshchuk [and others] ; under the editorship V. I. Petrenko. Kyiv: Medicine, 2018. 471 p.
2. Practical training in phthisiology: study guide / O.K. Asmolov, O. A. Baburina, N. A. Gerasimova. Odesa: ONMedU, 2010. 46 p. (eBook).
3. Current issues of phthisiology: manual / D. G. Kryzhanoskyi, V. A. Freiwald, N. A. Marchenko (and others). Dnipropetrovsk: T. K. Serednyak, 2017. 155 p.

### – additional:

1. Prevention of tuberculosis. Study guide for students and interns of VNMZ IV accreditation level and doctors / V. I. Petrenko, M. G. Dolynska, A. V. Aleksandrin, V. V. Petrenko. Kyiv: 2 Print, 2017. 88 p.  
url:<http://tb.ucdc.gov.ua/uploads/files/prophilaktica.pdf>.
2. Biochemical Value Dynamics in Patients with Multidrug-Resistant Tuberculosis/HIV with CD4+ Lymphocyte Cells below 50 Cells/ $\mu$ CLandits Variability in the Application of Adjuvant Immunoglobulin Therapy / NA Matsegora, AV Kaprosh, PB Antonenko // International Journal of Mycobacteriology. 2019; 8 (4):374 - 380. (SCOPUS)
3. Global tuberculosis report 2019 (WHO/CDS/TB/2019.15). Geneva, World Health Organization. 2019 URL:  
<https://apps.who.int/iris/bitstream/handle/10665/329368/9789241565714-eng.pdf>
4. Order of the Ministry of Health of Ukraine No. 530 dated February 25, 2020 "Health care standards at tuberculosis". URL:  
[https://phc.org.ua/sites/default/files/users/user90/Nakaz\\_MOZ\\_vid\\_25.02.202](https://phc.org.ua/sites/default/files/users/user90/Nakaz_MOZ_vid_25.02.202)

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5. TUBERCULOSIS Clinical guidelines of the Ministry of Health of Ukraine, based on evidence No. KN 2021-530 from 11/17/2021. [URL: https://www.dec.gov.ua/mtd/tuberkuloz/](https://www.dec.gov.ua/mtd/tuberkuloz/)

6. Order of the Ministry of Health of Ukraine dated March 9, 2021 No. 406 "On approval of the Procedure for epidemiological surveillance of tuberculosis and changes to the criteria for determining cases of infectious and parasitic diseases subject to registration".

7. Order of the Ministry of Health of Ukraine No. 287 dated February 1, 2019 "On the approval of the Infection Control Standard for health care institutions that provide assistance to tuberculosis patients." URL: <https://zakon.rada.gov.ua/laws/show/z0408-19#Text>

## EVALUATION

### Current control methods:

*The following methods of current control are used at each seminar session:*

- 1) Oral answer to standardized questions on the material of the current topic.
- 2) Solving situational problems.
- 3) Solving test tasks by topic.

### Criteria for current assessment in class:

"5"	The student is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills during the examination of a sick child and the interpretation of clinical, laboratory and instrumental data research, expresses his opinion on the topic of the lesson, demonstrates clinical thinking.
"4"	The student has a good command of the material, takes part in the discussion and solution of a situational clinical problem, demonstrates practical skills during the examination of a sick child and the interpretation of clinical, laboratory and instrumental research data with some errors, expresses his opinion on the topic of the lesson, demonstrates clinical thinking.
"3"	The student does not have sufficient knowledge of the material, is unsure of taking part in the discussion and solving the situational clinical problem, demonstrates practical skills during the examination of a sick child and the interpretation of clinical, laboratory and instrumental research data with significant mistakes
"2"	The student does not own the material, does not take part in the discussion and decision situational clinical behindchi not demonstrates practical skills during examination of a sick child and interpretation of clinical,

	laboratory and instrumental research data.
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*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 practical session.

## 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 reasons working out by individual schedule with the permission of the dean's office.

*Academic Integrity Policy:*

Observance of academic integrity by applicants is mandatory, and exact ly:

- 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;
- 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.);
- appointment additional control measures (additional individual tasks, tests, 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 in Odesa National Medical University, in accordance with Academic Code of ethics and relations of the university community of Odesa National University medical university, Regulation on prevention and detection academic plagiarism in the research and educational work of university graduates of education, scientists and teachers of the Odesa National Medical University university.