

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

Syllabus of selective educational discipline
"Extrapulmonary forms of tuberculosis"

Scope of the academic discipline	Total number of hours per discipline: 90 hours, 3 credits. Semesters: IX-X. 5th year of study
Days, time, place of educational discipline	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.
Teacher(s)	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.
Contact Information	Help by phone: Shpota Olena Evgenivna, responsible for international work at the department, 0685326315 Zaitsev Andrii Serhiiovych, 093-144-81-06 E-mail: kaftub@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 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, children's infections, general practice (family medicine).

Goal: mastering the complex of knowledge, skills, and abilities of timely diagnosis, differential diagnosis, treatment and prevention of extrapulmonary forms of tuberculosis, features of the course of tuberculosis in HIV-infected patients, which should improve the quality of treatment and/or prevent the development of complications.

Task:

- 1) acquiring knowledge about the state and prospects of phthisiopulmonology at the current stage;
- 2) acquisition of skills and abilities related to the pathogenesis, clinic, diagnosis, treatment and prevention of extrapulmonary forms of tuberculosis;
- 3) get acquainted with modern approaches to the diagnosis and treatment of tuberculosis in case of tuberculosis/HIV co-infection;
- 4) to study the main groups of drugs used in the treatment of tuberculosis, including drug-resistant tuberculosis;
- 5) Learning the algorithm of actions of a family doctor in the timely diagnosis and treatment of patients with tuberculosis and control of the regimen of taking anti-tuberculosis chemotherapy drugs.

Expected results

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

Know: Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention of extrapulmonary forms of tuberculosis.

Be able:

1. Master the ability to diagnose various clinical forms of tuberculosis;
2. Improve skills and abilities for diagnosis and differential diagnosis of extrapulmonary tuberculosis;
3. Acquire knowledge on the treatment and prevention of extrapulmonary tuberculosis;
4. To evaluate the peculiarities of pathogenesis, clinic, diagnosis, treatment and prevention of tuberculosis of the nervous system, intestines, peritoneum, mesenteric lymph nodes (mesadenitis), bones and joints, urinary and genital organs, skin and subcutaneous tissue, oral cavity, peripheral lymph nodes, eye, other bodies
5. Interpret risk factors and predict the occurrence of treatment complications;
6. Interpret the results of laboratory and instrumental research;
7. Learn the skills of diagnosing possible adverse reactions (ADRs) of anti-tuberculosis antibacterial drugs and the algorithm of actions of doctors when organizing assistance to patients in cases of ADRs during TB treatment;
8. Learn the main preventive measures in the occurrence of complications of the course of pulmonary and extrapulmonary tuberculosis;
9. To acquire skills and abilities to record the results of treatment in the relevant medical documentation;
10. To demonstrate the formation of moral, 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 seminar classes (30 hours), organization of students' independent work (60 hours).

Teaching methods:

Seminar classes reveal 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. General principles of tuberculosis treatment. Antimycobacterial drugs.
- Topic 3. Standard treatment regimens for tuberculosis patients. Criteria for treatment of tuberculosis patients. Concept of chemoresistance.
- Topic 4. Extrapulmonary forms of tuberculosis. Classification and mechanisms of development.
- Topic 5. Tuberculosis of the nervous system.
- Topic 6. Tuberculosis of bones and joints.
- Topic 7. Tuberculosis of urinary and genital organs.
- Topic 8. Tuberculosis of intestines, peritoneum, mesenteric lymph nodes (mesadenitis).
- Topic 9. Tuberculosis of the skin and subcutaneous tissue, oral cavity.
- Topic 10. Tuberculosis of peripheral lymph nodes.
- Topic 11. Tuberculosis of the eye.
- Topic 12. BCG vaccination.
- Topic 13. Tuberculosis/HIV infection.
- Topic 14. CONTROL, monitoring and driving side reactions on antituberculosis drugs.
- Topic 15. Clinical-laboratory and instrumental monitoring of the quality of treatment.

LIST OF RECOMMENDED LITERATURE:

Main:

1. Phthysiatry: 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. Current issues of phthysiology: manual / D. G. Kryzhanoskyi, V. A. Freiwald, N. A. Marchenko (and others). Dnipropetrovsk: T. K. Serednyak, 2017. 155 p.
3. Extrapulmonary and miliary tuberculosis in patients with TB/HIV co-infection / V. I. Petrenko, M. G. Dolynska, O. M. Raznatovska. K. 2015: DCS Center. 112 p.
URL:http://tb.ucdc.gov.ua/uploads/files/usaid_170x240_fp_new.pdf

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. Management of adverse reactions during the treatment of patients with tuberculosis and co-infection (tuberculosis/HIV infection/AIDS) (methodological manual for doctors) "National Institute of Phthysiatry and Pulmonology named after F.G. Yanovsky National Academy of Sciences of Ukraine". Kyiv, 2016. 80 p.
3. Tuberculosis of bones and joints: method. recommendations for students and intern doctors VNMZ IV level of accreditation / N. A. Matsegora, O. Ya. Lekan, L. P. Omelyan [and others]. Odesa: ONMedU, 2018. 24 p.

4. Extrapulmonary and miliary tuberculosis in patients with TB/HIV co-infection / V. I. Petrenko, M. G. Dolynska, O. M. Raznatovska. K. 2015: DCS Center. 112 p. URL:http://tb.ucdc.gov.ua/uploads/files/usaaid_170x240_fp_new.pdf
5. Duzhiy I. D. Bone tuberculosis is the cause of other forms of tuberculosis/ Duzhiy I. D., Bondarenko L. A., Oleshchenko V. O. // Tuberculosis. Lung diseases, HIV infection. 2016. No. 4. 65 - 67 p.
6. Yu.I. Feshchenko , Ilnytskyi I.H. Tuberculosis of extrapulmonary localization. Kyiv, 2016. 378 p.
7. 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>
8. Order of the Ministry of Health of Ukraine No. 530 dated February 25, 2020 "Protection standardshealth at tuberculosis". URL:https://phc.org.ua/sites/default/files/users/user90/Nakaz_MOZ_vid_25.02.2020_530_Standarty_medopomogy_pry_TB.pdf
9. TUBERCULOSIS Clinical guidelines of the Ministry of Health of Ukraine, based on evidenceNo. KN 2021-530from11/17/2021.URL:<https://www.dec.gov.ua/mtd/tuberkuloz/>
10. Order of the Ministry of Health of Ukraine No. 287 dated February 1, 2019 "On approval of the Standard of Infection Control for Institutionsof health care providing 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 research data, expresses his opinion on the subject 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 participating in the discussion and solution of the situational clinical problem, demonstrates practical skills during the examination of a sick child and the interpretation of data clinical, laboratory and instrumental studies with significant errors.
"2"	The student does not master the material, does not take part in the discussion and solution of the situational clinical problem, does not demonstrate practical skills during the examination of a sick child and the interpretation of clinical data, laboratory and instrumental research.

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:

- skips classes for non-respectable reasons are worked out according to the schedule of the teacher on duty.
- skips with respectable reasons working out by individualschedule 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;
- link on sources of information in the case of using ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- providing reliable information about the results of one's own educational (scientific) activity, used research methods and sources 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.);
- 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 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.