

	SYLABUS ON DISCIPLINE "Phthisiology"
	1. General information
Name of the	Medical
faculty	
Educational	22 Health care, 222 Medicine, second level of higher education (master's degree), full-
program	time
(industry,	
specialty,	
level of higher	
education, form of education)	
Academic year	2023/2024
Name of	Phthisiology, SU 3.1.1.4.
discipline, code	Internal medicine, endocrinology, infectious diseases, phthisiology, clinical immunology
(<i>e-mail on the</i>	
website of Danylo	and allergology, general practice (family medicine), palliative and hospice medicine
Halytsky LNMU)	SU 3.1.1 Individual profile course Internal medicine, SU 3.1
	Individual profile course Internal medicine, SU 3.1
Department	Phthisiology and Pulmonology, 79066, Lviv, st. Green 477; (032)236-89-42;
(name, address, telephone,e-mail)	каf_phthisiology@meduniv.lviv.ua
Head of the	Prof. Kostyk O.P.
department	kaf_phthisiology@meduniv.lviv.ua
(contact e-mail)	
Year of study	6th
(year in which the	om
study of the	
discipline)	
Semester	11-12
(semester in which	
the study of the	
discipline is	
implemented)	Commulatory
Type of course / module	Compulsory
compulsory /	
optional)	Aleren de Nerel e de Dh. D. Area de Dref
Teachers (names,	Alexandr Nevzhgoda; Ph.D., Associate Professor;
surnames, research and development	sashko.nev0703@gmail.com
of teachers who	
teach the	
discipline, contact	
e-mail)	
Erasmus yes /	No
no (availability of	
discipline for	
students within the	
program E <i>rasmus</i> +)	
Person	
responsible for	A.Nevzghoda; Ph.D., Associate Professor
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SYLABUS ON DISCIPLINE "Phthisiology"

the syllabus	sashko.nev0703@gmail.com
(person to be	
commented on the	
syllabus, e-mail) Number of	1
credits ECTS	
Number of	30 hours (15 hours of practical lessons / 15 hours of self-work)
hours (lectures /	50 hours (15 hours of practical lessons / 15 hours of sen-work)
practical classes /	
self-work of	
students)	
Language of	English
instruction	
Information	
about	
consultations	
Address,	KNP ENT "Lviv Regional Phthisio-Pulmonology Clinical Medical and Diagnostic
telephone and	Center"; 79066, Lviv, 477 Green Street; (032) 236-89-00
rules of	
operation of the	
clinical base	
	2. Short annotation to the course
	ents study the academic discipline "Phthisiology" of an individual profile course Internal
	on the knowledge and skills acquired in the study of phthisiology in the 5th year; and other
	c disciplines and completes the acquisition of general and professional competencies for
their application	in professional practice.
1 11.	3. The purpose and objectives of the course
	of teaching the discipline "Phthisiology" is mastering modern diagnostic methods, losis, treatment, prevention of tuberculosis, the formation of the ability to use knowledge,
	solve various problems of medical practice in health care.
skins, admites to	solve various problems of medical practice in health care.
2. Learning object	
	e risk factors for tuberculosis;
	vey of patients to determine the symptoms that may indicate tuberculosis;
	gorithm of examination of patients with symptoms that may indicate tuberculosis at the
	care and to develop the clinical route of the patient;
	he options of tactical actions of the doctor depending on the data of bacterioscopic
-	putum, X-ray examination and other diagnostic methods;
-	ta of microscopic, molecular genetic, bacteriological methods of detection of the causative
agent of tubercule	
testing;	sults of basic laboratory, radiological, instrumental methods of diagnosis and tuberculin
0,	ifferential diagnosis of bronchopulmonary, intoxication and radiological syndromes in
	ptoms that may indicate tuberculosis;
-	gnosis of tuberculosis in accordance with the current classification;
-	tment of tuberculosis under direct supervision;
Ū.	intain the patient's commitment to the treatment of tuberculosis;
	ardized medical treatment for patients with tuberculosis depending on the category and
determine the res	
	nent to patients with chemoresistant tuberculosis;
-	encies in patients with tuberculosis and provide them with emergency care;
	moprophylaxis of tuberculosis;
-	sures of administrative infection control of tuberculous infection;
- correctly use an	d select individual respiratory protection.

3. Competences and learning outcomes, the formation of which provides the study of the discipline (general and special competencies).

In accordance with the requirements of the Standard of Higher Education, the discipline ensures the acquisition of competencies by students.

<u>Integral competence</u> - the ability to solve complex problems, including research and innovation in the field of medicine. Ability to continue learning with a high degree of autonomy.

-General:

- GC1 Ability to abstract thinking, analysis and synthesis.
- GC2 Ability to to learn and master modern knowledge.
- GC3 Ability to apply knowledge in practical situations.
- GC4 Knowledge and understanding of the subject area and understanding of professional activity.
- $GC5-Ability \ to \ adapt \ and \ act \ in \ a \ new \ situation.$
- GC6 Ability to make informed decisions.
- GC7 Ability to work in a team.
- GC8 Interpersonal skills.
- GC9 Ability to communicate in the forein language both orally and in writing.
- GC10 Ability to communicate in a foreign language.
- GC11 Ability to search, study and analyze information from various sources.
- GC12 Definiteness and perseverance in terms of tasks and responsibilities.
- GC13 Awareness of equal opportunities and gender issues.
- GC14 The ability to exercise their rights and obligations as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, rights and freedoms of man and citizen in Ukraine.
- GC15 The ability to preserve and multiply moral, cultural, scientific values and achievements of society on the basis of an understanding of the history and laws of the development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, use various types and forms of motor activity for active recreation and leading a healthy lifestyle.

-Special (professional, subject):

SC1 – Ability to collect medical information about the patient and analyze clinical data.

SC2 – Ability to determine the required list of laboratory and instrumental studies and evaluate their results.

SC3 – Ability to establish preliminary and clinical diagnoses of tuberculosis.

SC4 – Ability to determine the required mode of work and rest in the treatment and prevention of tuberculosis.

SC5 – Ability to determine the nature of nutrition in the treatment and prevention of tuberculosis.

SC6 – Ability to determine the principles and nature of treatment and prevention of tuberculosis.

- SC7 Ability to diagnose of emergency conditions.
- SC8 Ability to determine the tactics of emergency medical care.
- SC10 Skills to perform medical manipulations.
- SC13 Ability to carry out sanitary and hygienic and preventive measures.
- SC14 Ability to plan and carry out preventive and anti-epidemic measures against tuberculosis.
- SC16 Ability to maintain medical records, including electronic forms.
- SC24 Compliance with ethical principles when working with patients, laboratory animals.

SC25 – Compliance with professional and academic integrity, be responsible for the reliability of the scientific results obtained.

4. Course details

The student needs basic knowledge and learning outcomes of the following disciplines to successfully

study and master the competencies of the discipline "Phthisiology":

- human anatomy know the anatomy of the respiratory system;
- physiology to know the physiology of the respiratory system;
- pathomorphology to know pathomorphological changes of organs at tuberculosis;
- pathophysiology to know the pathophysiology of the respiratory system;
- microbiology to know the morphological structure, properties, pathogenicity and virulence of Mycobacterium tuberculosis, methods of their detection in sputum and other materials, to be able to collect material for bacteriological examination, to evaluate the results;
- pharmacology to know antimycobacterial drugs, mechanisms of action, side effects, to be able to prescribe them to the patient;
- propaedeutics of internal medicine to know the method of questioning and objective examination of the patient, to be able to collect medical history and examine the patient, evaluate the data obtained;
- propaedeutics of pediatrics to know the method of questioning and objective examination of the child, to be able to collect anamnesis and examine the child;
- radiology to know the radiological features of the chest in normal and pathological conditions, radiological symptoms and syndromes, to be able to detect and interpret radiological events in the lungs;
- internal medicine to know the clinical manifestations, X-ray semiotics of diseases of the respiratory system, to be able to conduct a differential diagnosis of respiratory diseases;
- hygiene and ecology to know methods of disease prevention;
- epidemiology to know the links of the epidemiological process (source of infection, ways of infection transmission, susceptibility of the organism).

5. Program training results

- PTR-1. Have knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge. Be responsible for professional development, the ability to further professional training with a high level of autonomy.
- PTR-2. Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of health care.
- PTR-3. Specialized conceptual knowledge, which includes scientific achievements in the field of health and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary problems.
- PTR-4. To identify the leading clinical symptoms and syndromes according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, to establish a preliminary clinical diagnosis of the disease.
- PTR-5. Collect complaints, history of life and disease, evaluate the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information on the diagnosis, taking into account the patient's age.
- PTR-6. Establish a final clinical diagnosis by making an informed decision and analyzing the obtained subjective and objective data of clinical, additional examination, differential diagnosis, observing the relevant ethical and legal norms, under the supervision of a physician-leader in a health care institution.
- PTR-7. Assign and analyze additional (mandatory and optional) methods of examination (laboratory, functional and/or instrumental), patients with diseases of organs and body systems for differential diagnosis of diseases.
- PTR-8. Determine the main clinical syndrome or what causes the severity of the condition of the victim/victim by making an informed decision and assessing the condition of a person under any circumstances (in a health care institution, outside it), including in an emergency situation and hostilities, in the field, in conditions of lack of information and limited time.
- PTR-9. Determine the nature and principles of treatment of patients with tuberculosis (conservative, operative), taking into account the age of the patient, in the conditions of the health care institution, outside it and at the stages of medical evacuation, incl. in the field, based on a preliminary clinical

diagnosis, adhering to appropriate ethical and legal standards, by making an informed decision on existing algorithms and standard schemes, if necessary, expand the standard scheme to be able to justify personalized recommendations under the supervision of the doctor-manager in the conditions of the medical institution.

- PTR-10. Determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making an informed decision according to existing algorithms and standard schemes.
- PTR-14. Identify tactics and provide emergency medical care for medical emergencies in limited time settings in accordance with existing clinical protocols and treatment standards.
- PTR-17. Perform medical manipulations in a medical institution, at home or at work on the basis of a preliminary clinical diagnosis and/or indicators of the patient's condition by making an informed decision, observing appropriate ethical and legal standards.
- PTR-19. Plan and implement a system of anti-epidemic and preventive measures for the emergence and spread of diseases among the population.
- PTR-20. Analyze the epidemiological state and conduct mass and individual, general and local prevention of infectious diseases.
- PTR-21. Search for necessary information in professional literature and databases of other sources, analyze, evaluate and apply this information.
- PTR-24. Organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.
- PTR-25. It is clear and unambiguous to convey their own knowledge, conclusions and arguments on health issues and related issues to specialists and non-specialists.
- PTR-27. Fluent in English language, orally and in writing to discuss professional activities, research and projects.

PTR-29. Plan, organize and conduct activities for the specific prevention of infectious diseases, including in accordance with the National calendar of preventive vaccinations, both mandatory and recommended. Manage vaccine residues, organize additional vaccination campaigns, including immunoprophylaxis activities.

- 1	List of learning outcomes	
Learning outcome code	The content of the learning outcome	Reference to the code of the competence matrix
The code is created when filling the syllabus (category: Kn- knowledge, A-ability, C- competence, AR - autonomy and responsibility)	Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline. Learning outcomes follow from the set learning goals. To enroll in the discipline, it is necessary to confirm the achievement of each learning outcome.	Symbol of the Program Learning Outcome Code in the Higher Education Standard
Kn-1	Know the structure of professional activity.	PR-1
A-1	Be able to carry out professional activities by updating and integrating knowledge.	
C-1	Effectively form a communication strategy for the successful implementation of professional activities.	
AR-1	Be responsible for professional development, the ability to further professional training with a high level of autonomy.	
Kn-2	Know and understand fundamental and clinical biomedical sciences at a level sufficient to solve professional problems in the field of health care.	PR-2
A-2	Be able to apply knowledge of basic and clinical biomedical sciences to successfully solve professional problems in the field of health care.	

C-2 Effectively apply interpersonal connections using knowledge from fundamental and clinical biomedical sciences to successfully solve professional problems in the field of health care. AR-2 Be responsible for using the knowledge of basic and clinical biomedical sciences to successfully solve professional problems in the field of health care. Kn-3 Know and understand scientific achievements in the field of health care to form specialized conceptual knowledge. A-3 Be able to apply scientific achievements in the field of medicine and related interdisciplinary problems. R-3 Be responsible for the successful conduct of research, critical understanding of problems in the field of medicine and related interdisciplinary problems. R-4 Know the leading clinical symptoms and syndromes. PR-4 A-4 Be able to highlight leading clinical symptoms and syndromes using history data, patient examination data, knowledge about the person, his organs and systems, and establish a preliminary clinical diagnosis. PR-4 Kn-5 Know the standard schemes and methods of questioning, physical examination of the patient. PR-5 Mrs2 Be responsible for the correct establishment of a bedia diagnosis. PR-6 Kn-6 Know the standard schemes and methods of questioning, physical examination of the patient. PR-6 diagnosis. R-7 Be be to collect patient complaints, history of the disease and life, conduct a general and detailed examination of t		-	
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basis evaluate information on the diagnosis of the patient.			
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C_{-7} It is reasonable to assign and convey to the patient and/or his		• •	
It is reasonable to assign and convey to the patient and/or his	<i>C</i> -7	It is reasonable to assign and convey to the patient and/or his	
relatives (guardians) information on the list of necessary		relatives (guardians) information on the list of necessary	
	C-7	It is reasonable to assign and convey to the patient and/or his	

	laboratory and instrumental studies.	
AR-7	Be responsible for the correct appointment of laboratory and	
A R- /	instrumental studies, timely and correct assessment of their	
	results.	
Kn-8	Know the main clinical syndromes that can determine the	PR-8
	severity of the condition of the victim.	
A-8	To be able to determine the main clinical syndrome, which	
	determined the severity of the condition of the victim, by	
	making an informed decision and assessing the condition of	
	a person in any circumstances, including in an emergency	
	and combat, in the field, in conditions of lack of information	
	and limited time.	
<i>C-8</i>	Effectively form a communication strategy in determining	
	the main clinical syndrome, which caused the severity of the	
	condition of the victim under any circumstances, including	
	in an emergency and combat, in the field, in conditions of	
	lack of information and limited time.	
AR-8	Be responsible for the correct definition of the main clinical	
	syndrome, which caused the severity of the condition of the	
	victim, under any circumstances, including in conditions of	
	emergency and hostilities, in the field, in conditions of lack	
	of information and limited time.	
Kn-9	Have specialized knowledge of algorithms and standard TB	PR-9
	treatment regimens.	
A-9	To be able to determine the principles and nature of	
	treatment of various forms of tuberculosis.	
<i>C-9</i>	Form and convey to the patient and/or his relatives	
	(guardians) their own conclusions about the principles and	
AR-9	nature of treatment.	
AK-9	Be responsible for deciding on the principles and nature of the treatment of the disease.	
Kn-10	Know the algorithms and standard schemes for determining	PR-10
Kn-10	the mode of work and rest, therapeutic nutrition for	T K-10
	tuberculosis.	
A-10	Be able to determine the necessary mode of work and rest,	
1110	proper nutrition of patients with tuberculosis.	
C-10	Form and convey to the patient and/or his relatives	
0 10	(guardians) conclusions about the necessary mode of work	
	and rest, proper nutrition for tuberculosis.	
AR-10	Be responsible for the validity of the appointment of the	
	regime of work and rest, nutrition for the patient in the	
	treatment of tuberculosis.	
Kn-14	Know the tactics of emergency medical care in emergency	PR-14
	conditions in phthisiology.	
A-14	Be able to provide emergency medical care for medical	
	emergencies in limited time settings in accordance with	
	existing clinical protocols and treatment standards.	
<i>C-14</i>	Reasonably inform the patient and/or relatives about the	
	need for emergency care and obtain consent for medical	
	intervention.	
AR-14	Be responsible for the timeliness and quality of emergency	
	medical care.	DD 17
Kn-17	Have specialized knowledge of algorithms for performing	PR-17

	medical manipulations	
4 17	medical manipulations.	
A-17	Be able to perform medical manipulations.	
C-17	It is substantiated to form and bring to the patient, and/or his	
	relatives (guardians) conclusions about the need for medical	
4D 17	manipulations.	
<u>AR-17</u>	Be responsible for the quality of medical manipulation.	DD 10
Kn-19	Know the anti-epidemic and preventive measures for the	PR-19
4 10	emergence and spread of tuberculosis among the population.	
A-19	To be able to carry out sanitary-hygienic and preventive	
	measures aimed at preventing infection and disease with	
C 10	tuberculosis of the population.	
C-19	Inform the population about the need for prevention of	
(D. 10	tuberculosis.	
AR-19	Be responsible for timely and high-quality TB prevention.	DD 20
Kn-20	Know the main epidemiological indicators of tuberculosis,	PR-20
	the system of anti-epidemic measures of tuberculosis	
4 30	infection control.	
A-20	Be able to carry out anti-epidemic measures in the focus of	
C 2 0	tuberculous infection.	
C-20	Inform the population and medical staff about the need for	
	anti-epidemic measures in the center of tuberculous infection	
	and strict compliance with the requirements of infection	
10.20	control in medical institutions.	
AR-20	Be responsible for the timeliness of the organization of anti-	
	epidemic measures in the focus of tuberculous infection and	
	strict compliance with the requirements of infection control	
<i>K</i> 21	in medical institutions.	DD 21
Kn-21	Know the methodology for finding the necessary	PR-21
A-21	information in professional literature, Internet resources.	
A-21	Be able to analyze, evaluate and apply the information received.	
C-21		
C-21	Establish interpersonal connections to search, analyze, evaluate the information received.	
AR-21		
AK-21	Be responsible for the analysis and adequate assessment of the information received from professional literature,	
	Internet resources.	
Kn-24	Know the basic rules of individual safety in case of typical	PR-24
N <i>n</i> -24	dangerous situations in the individual field of activity.	ΓΛ-24
A-24	Be able to provide the necessary level of individual safety in	
1-24	case of typical dangerous situations.	
C-24	Apply interpersonal skills to ensure the required level of	
U-24	individual safety in the event of typical dangerous situations.	
AR-24	Be responsible for ensuring the required level of individual	
AR-24	safety in case of typical dangerous situations.	
Kn-25	Know the ways of conveying their own knowledge,	PR-25
M <i>n</i> - 2 <i>J</i>	conclusions and arguments on health issues and related	1 K-25
	issues to specialists and non-specialists.	
A-25	To be able to clearly and unambiguously convey their own	
A-23	knowledge, conclusions and argumentation on health	
	problems and related issues to specialists and non-	
C-25	specialists.	
C-23	Establish interpersonal links to convey their own knowledge,	
	conclusions and arguments on health issues and related	
	concrusions and arguments on nearth issues and related	

(1)	25	• • • •			
AR	2-25	-	ts and non-specialists.	C	
		1	or the clear and unambiguous delivery		
			edge, conclusions and arguments on heal	th	
			issues to specialists and non-specialists.		
Kn	-27	_	ish at the level of oral and writte	en	PR-27
		communication.			
A-	-27	Be able to com	municate fluently in English to discu	SS	
		professional activ	ities, research and projects.		
C	-27	Establish interpe	rsonal links for free communication	in	
			ss issues of professional activity, research		
		and projects.	1		
AR	2-27		or the ability to communicate fluently	in	
		-	uss professional activities, research an		
		projects.			
Kn	-29	1 0	es of specific prevention of tuberculos	zie	PR-29
	-47	(vaccination, BCC		513	1 11-47
A	20			of	
A	-29		nize and conduct specific prevention		
	20	tuberculosis.			
	-29		lation about the need for timely specif	10	
	• • •	prevention of tube			
AR	2-29		for quality and timely vaccination, BC	G	
		revaccination.			
			6. Course format and scope		
Course	e format		Eye		
Kin	nd of		Number of hours	Nu	mber of groups
occup	oations				U I
Practica			15		
lessons					
Self-wo	ork		15		
			7. Topics and content of the course		
Code		Topic	Learning content	Learning	Teacher
		Topic	Learning content	outcome	reaction
type				code	
to				coue	
topic	M				
P-1	-	nent of patients	Health standards for tuberculosis.	PR-1	
	with	tuberculosis.	Modern approaches to the detection	PR-2	
	Revealin	ig and diagnosing	and diagnosis of tuberculosis.	PR-3	
	of	tuberculosis.	Identification of symptoms that may	PR-4	
	Treatme	nt drug regimens	indicate tuberculosis. The route of a	PR-5	
		ents with newly	patient with a cough at the stage of	PR-6	
	diagnose	•	primary care. Bacteriological methods	PR-7	
	-		for the diagnosis of tuberculosis. The	PR-9	
	and re-tr	eatment.	role of rapid methods of molecular	PR-10	Nevzgoda A.A.
			genetic diagnosis of tuberculosis.	PR-17	_
			Application of X-ray examination in	PR-21	
			the diagnosis of tuberculosis. The role	PR-27	
			of computed tomography and magnetic		
			resonance imaging in the diagnosis		
			and differential diagnosis of		
			tuberculosis. The role of instrumental		
			and invasive methods in confirming		
1	1		the diagnosis. Treatment regimens of		

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P-2	Management of patients with chemoresistant tuberculosis. Treatment regimens of mono-, poly-, multi- and wide drug resistant tuberculosis. Features of management of incurable patients with tuberculosis. Application of palliative methods of treatment. Complications of pulmonary tuberculosis: hemoptysis, hemorrhage, spontaneous pneumothorax.	patients in cases of newly diagnosed tuberculosis and cases of re-treatment. Treatment under direct supervision and formation of adherence to treatment. Clinic, diagnosis of tuberculosis during pregnancy. Features of treatment. Determining the risk of multi-resistant tuberculosis. Timely establishment of chemoresistance. Compilation of a diagnostic algorithm with the rational use of methods of molecular genetic diagnostics and bacteriological research. Standard and individualized treatment regimens for monoresistant, polyresistant, multi-resistant tuberculosis (MRTB) and tuberculosis with extended resistance (RRTB). Diagnosis and management of adverse reactions to treatment. Surgical treatment of MRTB. Features of incurable patients with tuberculosis. Application of palliative methods of treatment. Hemoptysis and pulmonary hemorrhage in patients with tuberculosis: pathogenesis, classification, differentiation of blood flow. Types of spontaneous pneumothorax. Algorithms for	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-14 PR-17 PR-21 PR-21 PR-27	Nevzgoda A.A.
P-3	Prevention of tuberculosis. Infectious control of tuberculosis. Coronavirus disease (COVID-19): clinic, diagnosis, treatment, prevention.		PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-10 PR-17 PR-19 PR-20 PR-21 PR-24 PR-24 PR-27 PR-29	Nevzgoda A.A.

SW-1	Differential diagnosis of basal and paramediastinal processes, pulmonary dissemination, pulmonary infiltrates.	X-ray syndrome of expansion of the shadow of the roots of the lungs and mediastinum. Differential diagnosis of tuberculosis of intrathoracic lymph nodes, lymphogranulomatosis, non- Hodgkin's lymphoma, lymphocytic leukemia, sarcoidosis, nonspecific adenopathies, central cancer, aortic aneurysm, esophageal hyperplasia, thyroid gland. Radiological dissemination syndrome in the lungs. Differential diagnosis of disseminated tuberculosis, bilateral focal pneumonia, carcinomatosis, pneumoconiosis, sarcoidosis, congestion in the lungs, systemic connective tissue lesions, interstitial lung diseases. X-ray syndrome of partial or segmental eclipse (pulmonary infiltrate). Differential diagnosis of infiltrative pulmonary tuberculosis, pneumonia, pulmonary eosinophilic infiltrate, pulmonary infarction, lung cancer.	PR-1 PR-2 PR-3 PR-4 PR-7 PR-21	Nevzgoda A.A.
SR-2	Differential diagnosis of spherical formations in the lungs, cavities in the lungs, pleurisy.	X-ray syndrome of spherical shadow in the lungs. Differential diagnosis of pulmonary tuberculoma, peripheral cancer, tumor metastases, benign tumors, filled cysts. X-ray syndrome of the cavity in the lungs. Differential diagnosis of tuberculous cavity, lung abscess, aspergilloma, cystic hypoplasia, cavitary cancer, broncho- ectatic disease. X-ray syndrome of the presence of fluid in the pleural cavity. Differential diagnosis of tuberculous, nonspecific, cancerous pleurisy, hydrothorax in cardiac decompensation, renal failure, pleural mesothelioma.	PR-1 PR-2 PR-3 PR-4 PR-7 PR-21	Nevzgoda A.A.
SW-3	Extrapulmonary forms of tuberculosis: tuberculous meningitis. Tuberculosis of the peripheral lymphatic nodes. Bone and joints tuberculosis.	Clinical variants, diagnosis, treatment of extrapulmonary forms of tuberculosis (meninges, peripheral lymph nodes, bones and joints).	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-9	Nevzgoda A.A.

PR-10	
PR-21	

Teaching methods

<u>Verbal -</u> explanations, briefings, educational discussion.

<u>Visual -</u> illustrations (tables, radiographs, test results and other methods of examination);

- demonstration (diagnostic and therapeutic manipulations).

<u>Practical -</u> the formation of skills and abilities of clinical examination of patients, the implementation of the medical manipulations provided by the program, the provision of emergency care.

<u>Interactive -</u> which involve working in small groups to perform a specific set of tasks; modeling of clinical situations.

8. Verification of learning outcomes

Current control

is carried out during classes and aims to verify the assimilation of students' learning material. Control is carried out by a comprehensive assessment of theoretical and practical training of the student on the basis of oral examination, test control, solving clinical situational problems, demonstration of practical skills and abilities. The final grade for the current educational activity is set on a 4-point (national) scale with subsequent conversion into a multi-point scale.

	Evaluation	n criteria	
	Assessment of the stu	dent's oral response	
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»
The student has	The student firmly	The student has	The student does not
deeply and firmly	knows the material,	knowledge of the	know the program
mastered the	competently and	basic material, but	material, makes
material;	essentially answers,	has not mastered	significant mistakes,
consistently,	does not make	its details, makes	is unsure of the
competently and	significant mistakes	mistakes, breaks	answer.
logically teaches it,	in answering	the sequence in the	
closely connects	questions.	presentation of the	
theory with practice,		material.	
freely copes with			
questions.			
	Evaluation of so	lving test tasks	
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»
100-91%	90-76%	75-51%	50% or less
<u>Evaluat</u>	ion of the solution of a	a clinical situational	<u>problem</u>
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»
The clinical	Accurately	There were	No answer to the
diagnosis of the	formulated and	difficulties in	problem is given.
patient is precisely	partially	substantiating the	
formulated and fully	substantiated	clinical diagnosis,	
substantiated and the	clinical diagnosis of	drawing up a	
treatment plan is	the patient,	treatment plan for	
made.	inaccuracies in the	the patient.	
	treatment plan.		
<u>A</u>	ssessment of practica	l skills demonstratio	<u>n</u>
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»
The student has	The student	The student made	The student has not
mastered the	performs practical	serious mistakes in	developed practical
practical skills	skills, but does not	the process of	skills; did not form
provided by the	make fundamental	performing	the skills provided

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Final control

Exam is a form of final control, consisting in assessing the student's assimilation of educational material solely on the basis of the results of performing certain types of work in practical classes. Semester credit for disciplines is held at the end of its study, before the beginning of the examination session.

Scheme of accrual and distribution of points received by students:

For disciplines the form of final control which is a test:

The maximum number of points that a student can score for the current educational activity in the study of the discipline is 200 points.

The minimum number of points that a student must score for the current academic activity to enroll in the discipline is 120 points.

The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:

$$x = \frac{CA \times 200}{5}$$

9. Course policy

The policy of the discipline is determined by the system of requirements for the student in the study of "Phthisiology" and is based on the principles of academic integrity. Students are explained the value of acquiring new knowledge; academic standards to be followed; why they are important; what is academic integrity, what are its values and functions; the essence and reasons for the inadmissibility of academic plagiarism; encourage applicants for higher education to independently perform educational tasks, correctly rely on sources of information in the case of borrowing ideas, statements, information.

Applicants for higher education must develop clinical thinking, fundamental and specialized knowledge, skills on the basic patterns of disease development, diagnosis and treatment.

The discipline "Phthisiology" is mandatory for students majoring in 222 "Medicine". The student is obliged to fully master the knowledge, skills, practical skills and competencies in this discipline.

Policy on adherence to the principles of academic integrity of higher education students:

• independent performance of educational tasks of current and final controls without the use of external sources of information, except as permitted by the teacher;

• independent performance of individual tasks and correct registration of references to sources of information in case of borrowing of ideas, statements, information.

Policy on adherence to the principles and norms of ethics and deontology by higher education students:

• to act from the standpoint of academic integrity, professional ethics and deontology in educational and professional situations;

• follow the rules of the internal regulations of the clinical base of the department, be tolerant, friendly and balanced in communication with students and teachers, patients, medical staff of the health care institution.

Attendance policy for higher education students:

• Attendance at all practical classes is mandatory (except in cases of absence for a good reason).

Policy of rearranging topics and working off missed classes by higher education students:

• practice of missed classes is according to the schedule of practice

• recomposition of the topic of the lesson, for which the student received a negative grade, is carried out at a convenient time for the teacher and the student.

convenient unit for the teacher and the stadent.
10. Literature
Basic literature:
1. Phthysiology. nats textbook / edited by V. I. Petrenko, Kyiv .: VVV "Medicine", 2015 472 p.
2. Pulmonology and phthisiology: a textbook in 2 volumes / Ed. Yu.I.Feshchenko, V.P. Melnyk,
I.G.Ilnitsky Kyiv, Lviv: Atlas, 2009 - 1336 p.

3. Phthysiology. Educational manual/edited by V.P.Melnik, I.G.Ilnitsky.- Kyiv - Lviv: Atlas, 2008. – 304 p.

4. Phthysiology. Textbook / Ed. acad. AND I. Tsyganenko, prof. SI. Zaitseva - X .: Fakty, 2004. 390s.

5. Savula M.M., Ladny O.Ya. Tuberculosis. Textbook. Ternopil: "UkrmedkNiga", 1999. - 323 p.

6. Order of the Ministry of Health of Ukraine 19.01.2023 № 102 "Standards of medical care"Tuberculosis". 7. Order of the Ministry of Health of Ukraine No. 358 dated 22.02. 2222 Protocol "Provision of medical care for the treatment of coronavirus disease (COVID-19)."

Additional literature:

1. Tuberculosis prevention: a textbook for students, interns and doctors/B.I. Petrenko, M.G. Dolinskaya, A.V. Alexandrin, V.V. Petrenko. – Kiïv:2Print, 2017. – 88 p.

2. Diseases of the respiratory system. Reference book / Yu.I.Feshchenko, V.M.Melnyk, I.G.Ilnitsky. - Kyiv - Lviv: Atlas, 2008. – 497p.

3. Feshchenko Yu.I. Organization of control of chemo-resistant tuberculosis. Production edition. - Kyiv: Health, 2013. - 704 p.

Information resources:

1. State institution "Ukrainian Center for the control of social diseases of the Ministry of Health of Ukraine": http://ucdc.gov.ua

2. The site of the National Institute of Phthisiology and Pulmonology named after FG Yanovsky: http://www.ifp.kiev.ua/doc

3. Tuberculosis, pulmonary diseases, HIV infection. Ukrainian Scientific and Practical Journal www.tubvil.com.ua

4. USAID "Strengthening TB Control in Ukraine" Website: http://www.stbcu.com.ua

11. Equipment, logistics and software of the discipline / course

• Work-study program of the discipline;

- Thematic plans of lectures, practical lessons and self-work of students;
- Methodical recommendations for practical lessons for students;
- Indicative maps for the organization of self-work of students;
- Test and control tasks for practical lessons;
 - base of test tasks Step-2;
 - list of theoretical questions submitted for final control
- situational tasks
- sets of educational radiographs and tomograms.

12. Additional Information

Responsible for the educational process - Associate Professor Chulovska Ulyana Bogdanivna, <u>ulyana_62@ukr.net</u>

There is a scientific circle at the department, the head is prof. Kostyk Olga Petrivna, <u>kaf_phthisiology@meduniv.lviv.ua</u>

Practical classes are held on the basis of KNP ENT "Lviv Regional Phthisiopulmonology Clinical Medical and Diagnostic Center" (477 Green Street).

Students need to have bathrobes, hats, masks, their own stethoscopes.

Syllable stacker Alexandr Nevzhgoda; Ph.D., Associate Professor

Anoi

Chief of Department

Prof. Kostyk O.P.