

SYLLABUS OF THE EDUCATIONAL DISCIPLINE "PHTHISIOLOGY"

	1. General information
Name of the faculty	Dentistry
Educational program	22 Healthcare, 221 Dentistry, second level of higher
(industry, specialty,	education (master's degree), full-time
level of higher	
education, form of	
education)	
Academic year	2020/2021
Name of discipline,	Phthisiology, OC 36
code (e-mail on the	
website of Danylo	
Halytsky LNMU)	
Department (name,	Phthisiology and Pulmonology, 79066, Lviv, st. Green 477;
address, telephone,	(032)236-89-42;
e-mail)	кaf_phthisiology@meduniv.lviv.ua
Head of the	Prof. Kostyk O.P.
department (contact e-	
mail)	
Year of study (year in	4th
which the study of the	
discipline)	
Semester (semester in	8
which the study of the	
discipline is	
implemented)	
Type of course /	Required
module compulsory /	
optional)	
Teachers (names,	Alexander Nevzgoda; Ph.D., Associate Professor;
surnames, research	sashko.nev0703@gmail.com
and development of	Khrystyna Volnytska; Ph.D., Associate Professor;
teachers who teach the	christinka.rud86@gmail.com
discipline, contact e-	Zoriana Piskur; Ph.D., assistant;
mail)	каf_phthisiology@meduniv.lviv.ua
Erasmus yes / no	No
(availability of	
discipline for students	
within the program	
Erasmus+)	

Person responsible for the syllabus (person to be commented on the syllabus, e-mail)	A.Nevzgoda; Ph.D., Associate Professor sashko.nev0703@gmail.com		
Number of credits	2		
ECTS			
Number of hours	60 hours (10 hours of lectures / 20 hours of practical lessons /		
(lectures / practical	30 hours of self-work)		
classes / self-work of			
students)			
Language of	Ukrainian /English		
instruction			
Information about			
consultations			
Address, telephone	KNP ENT "Lviv Regional Phthisio-Pulmonology Clinical		
and rules of operation	Medical and Diagnostic Center"; 79066, Lviv, 477 Green		
of the clinical base	Street; (032) 236-89-00		
2. Short annotation to the course			

The discipline "Phthisiology" is a mandatory component of the educational and professional training program for masters of medicine. Students study epidemiology, methods of timely detection and diagnosis, clinical and diagnostic signs of tuberculosis, basic principles of treatment of patients with tuberculosis, tuberculosis prevention and infection control measures; study of forms of tuberculosis that occur in dental practice and should be diagnosed in a timely manner by dentists; improve the ability to interview and objectively examine the patient, interpret the data of laboratory and instrumental studies, formulate a clinical diagnosis, prescribe treatment, provide emergency medical care.

3. The purpose and objectives of the course

1. The purpose of teaching the discipline "Phthisiology" is acquisition by students of basic knowledge of tuberculosis, mastering modern diagnostic methods, differential diagnosis, treatment, prevention of tuberculosis, the formation of the ability to use knowledge, skills, abilities to solve various problems of medical practice in health care.

2. The main tasks of studying the discipline "Phthisiology" are:

- determine the risk factors for tuberculosis;
- interpret the results of tuberculin tests, bacterioscopic and bacteriological methods of sputum research;
- determine clinical forms of tuberculosis and formulate a clinical diagnosis according to the classification;
- make the scheme of examination of the patient with tuberculosis, to analyze the received data;
- prescribe standard treatment regimens for patients with pulmonary tuberculosis;
- determine the consequences of treatment of patients with pulmonary tuberculosis;

- diagnose emergency conditions in patients with tuberculosis and provide them with emergency care.

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 apply the acquired general and professional competencies to solve complex problems of the doctor's professional activity and practical problems in the field of health care in the relevant position, the scope of which is provided by lists of syndromes and symptoms of diseases, emergency conditions and diseases requiring special tactics of patient management; laboratory and instrumental examinations, medical manipulations; issues of labor, forensic and military expertise and / or innovations.

-General:

GC1 – Ability to abstract thinking, analysis and synthesis, ability to learn and master modern knowledge.

GC2 – Ability to apply knowledge in practical situations.

GC3 – Knowledge and understanding of the subject area and understanding of professional activity.

GC4 – Ability to adapt and act in a new situation.

GC5 – Ability to make informed decisions, ability to work in a team.

GC6 – Interpersonal skills.

GC7 – Ability to communicate in the state language both orally and in writing.

GC8 – Ability to communicate in a foreign language.

GC9 – Skills in the use of information and communication technologies.

GC10 – Definiteness and perseverance in terms of tasks and responsibilities.

GC11 – Ability to act socially responsibly and consciously.

GC12 – Ability to act on ethical considerations.

-Special (professional, subject):

SC1 - Skills of interviewing and clinical examination of the patient.

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 of tuberculosis.

SC5 – Ability to diagnose of emergency conditions.

SC6 – Ability to determine the tactics of emergency medical care.

SC7 – Emergency care skills.

SC8 – Ability to carry out sanitary and hygienic and preventive measures.

SC9 – Ability to plan and carry out preventive and anti-epidemic measures against infectious diseases.

SC10 – Ability to keep medical records.

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 learning outcomes

- 1. 1. Collect data on patient complaints, medical history, life history, conduct and evaluate the results of physical examination.
- 2. Evaluate information about the diagnosis in the hospital, using a standard procedure based on the results of laboratory and instrumental studies.
- 3. Highlight the leading clinical symptom or syndrome. Establish the most probable or syndromic diagnosis of the disease. To carry out differential diagnosis of diseases. To establish the clinical diagnosis according to classification.
- 4. Determine the necessary mode of work and rest, the nature of nutrition in the treatment of tuberculosis.
- 5. Determine the principles and nature of treatment (conservative, operative) disease.
- 6. Determine the tactics of emergency medical care based on the diagnosis of emergency.
- 7. Provide emergency medical care.

- 8. Perform medical manipulations.
- 9. Implement a system of anti-epidemic and preventive measures.
- 10.Plan measures to prevent the spread of tuberculosis. Carry out anti-epidemic measures in the tuberculosis center.
- 11. To determine the tactics of examination and prevention of healthy people and patients subject to dispensary supervision.
- 12. Keep medical records.

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-	Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline. Learning outcomes follow	Symbol of the Program Learning Outcome Code in the Higher		
knowledge, A-ability,	from the set learning goals. To enroll in the discipline, it is necessary	Education Standard		
C-competence, AR - autonomy and responsibility)	to confirm the achievement of each learning outcome.			
Kn-1	Know the standard schemes and methods of interviewing, physical examination of the patient.	PR-1		
A-1	Be able to collect patient complaints, medical history and life, to conduct a general and detailed examination of the patient, to evaluate the data obtained.			
C-1	Effectively form a communication strategy when communicating with the patient and his relatives.			
AR-1	Be responsible for the choice of communication method, quality of the examination and clinical evaluation of the obtained data.			
Kn-2	Know the standard methods of laboratory and instrumental research.	PR-2		
A-2	Be able to appoint laboratory and instrumental examination of the patient by applying standard methods, analyze the results of laboratory and instrumental studies and on their basis to assess information about the diagnosis of the patient.			
<i>C</i> -2	It is reasonable to appoint and inform the			

	patient and / or his relatives (guardians)	
	about the list of necessary laboratory and	
	instrumental tests.	
AR-2	Be responsible for the correct	
	appointment of laboratory and	
	instrumental tests, timely and accurate	
	evaluation of their results.	
Kn-3		PR-3
<i>Kn</i> -3	Know the algorithms for diagnosing	FK-J
	diseases, highlighting the leading	
	symptoms or syndromes, establishing	
	preliminary and clinical diagnoses.	
A-3	Be able to make an informed decision	
	about the selection of the leading clinical	
	symptom or syndrome; be able to	
	establish a preliminary and clinical	
	diagnosis.	
K-3	On the basis of normative documents to	
	keep medical documentation of the	
	-	
	patient (card of the outpatient /	
	inpatient).	
AR-3	Adhering to ethical and legal norms, be	
	responsible for making informed	
	decisions and actions regarding the	
	correctness of the established	
	preliminary and clinical diagnoses.	
Kn-4	Know the algorithms and standard	PR-4
	schemes for determining the mode of	
	work and rest, therapeutic nutrition in	
	tuberculosis.	
A 4		
A-4	Be able to determine the necessary mode	
	of work and rest, proper nutrition of	
	patients with tuberculosis.	
<i>C-4</i>	To form and convey to the patient and /	
	or his relatives (guardians) conclusions	
	about the necessary mode of work and	
	rest, proper nutrition in tuberculosis.	
AR-4	To be responsible for the validity of the	
	appointment of work and rest, nutrition	
	to the patient in the treatment of	
	tuberculosis.	
<i>V F</i>		חת 5
Kn-5	Have specialized knowledge of	<i>PR-5</i>
	algorithms and standard schemes for the	
	treatment of tuberculosis.	
A-5	Be able to determine the principles and	
	nature of treatment of various forms of	
	· · ·	

	tubaraulasis	
	tuberculosis.	
C-5	Form and communicate to the patient	
	and / or his relatives (guardians) their	
	own conclusions about the principles	
	and nature of treatment.	
AR-5	Be responsible for deciding on the	
	principles and nature of treatment of the	
	disease.	
Kn-6	Know the tactics of emergency medical	PR-6
<i>Kn-0</i>	care in emergencies in tuberculosis.	1 11-0
A-6	•	
A-0	Be able to identify emergencies,	
	principles and tactics of emergency	
	medical care, to carry out organizational	
	and diagnostic measures aimed at saving	
	and saving lives.	
<i>C-6</i>	It is reasonable to inform the patient and	
	/ or relatives about the need for	
	emergency care and obtain consent for	
	medical intervention.	
AR-6	Be responsible for the correct	
	determination of the emergency	
	condition, its severity and tactics of	
	emergency medical care.	
Kn-7	Know the algorithms for providing	PR-7
	emergency medical care in emergencies.	1 1 7
A-7	Be able to provide emergency medical	
C-7	care in case of emergency.	
C-/	Explain to the patient and / or relatives	
	about the need and procedure for	
	emergency medical care.	
AR-7	Be responsible for the timeliness and	
	quality of emergency medical care.	
Kn-8	Have specialized knowledge of	<i>PR-8</i>
	algorithms for performing medical	
	manipulations.	
A-8	Be able to perform medical	
	manipulations.	
C-8	It is reasonable to form and bring to the	
	patient and / or his relatives (guardians)	
	conclusions about the need for medical	
μη ο	manipulations.	
AR-8	Be responsible for the quality of medical	
V 0	manipulations.	DD ()
Kn-9	Know the types of tuberculosis	PR-9
	prevention (vaccination, BCG	

	an a	
4.0	revaccination, chemoprophylaxis,	
A-9	sanitary prevention).	
	Be able to carry out sanitary and	
	hygienic and preventive measures aimed	
	at preventing infection and tuberculosis	
<i>C-9</i>	of the population.	
	Inform the population about the need for	
AR-9	tuberculosis prevention.	
	To be responsible for timely and high-	
	quality tuberculosis prevention.	
Kn-10	To know the system of anti-epidemic	PR-10
	measures of infectious control of	
	tuberculosis.	
A-10	Be able to carry out anti-epidemic	
1110	measures in the sourse tuberculosis	
	infection.	
C-10	Inform the population and medical staff	
C-10		
	about the need for anti-epidemic	
	measures in the center of tuberculosis	
	infection and strict compliance with the	
	requirements of infection control in	
AR-10	medical institutions.	
	To be responsible for the timeliness of	
	anti-epidemic measures in the sourse of	
	tuberculosis infection and strict	
	compliance with the requirements of	
	infection control in medical institutions.	
Kn-11	Know the categories and groups of	PR-11
	dispensary observation of patients with	
	tuberculosis, the tactics of their	
	examination and the principles of	
	prevention.	
A-11	Be able to select persons who are subject	
	to dispensary supervision.	
C-11	Organize dispensary supervision of sick	
	and healthy people who are subject to	
	dispensary supervision.	
AR-11	To be responsible for the quality of the	
	organization of dispensary supervision	
	of certain contingents of persons.	
Kn-12	Know the system of official document	PR-12
1111-12	management in the work of a doctor, the	1 11-12
	basic rules of medical records.	
A 10		
A-12	Be able to fill out medical documents, in	
	particular using modern computer	

	information technology.	
C-12	Apply interpersonal skills for quality	
	medical records.	
AR-12	Be responsible for the completeness and	
	quality of medical records.	
	6. Course format and scope	
Course format	Eye	
Kind of occupations	Number of hours	Number of groups
Lectures	10	
Practical lessons	20	
Self-work	30	

	/.10p	bics and content of the course	Loomine	
Code type to borrow	Topic	Learning content	Learning outcome code	Teacher
L-1	Tuberculosis as scientific and practical problem. The history of tuberculosis. Epidemiology of tuber-culosis. Etiology and pathogenesis of tuberculosis. Tuberculosis immunity.	Tuberculosis as a social, medical and scientific problem. The main stages of development of the doctrine of tuberculosis. The main epidemiological indicators and their dynamics for the last 10- 15 years. The causative agent of tuberculosis, morphological structure, properties. Tuberculosis infection, ways of penetration and spread of MBT in the human body. Humoral and cellular immunity are their mechanisms		Nevzgoda A.A.
L-2	Diagnostic of tuberculosis. Special methods of detection and diagnosis of tuberculosis.	Ways and methods of tuberculosis detection. Categories of the population with an increased risk of tuberculosis. Involvement of health workers in detected tuberculosis. Methods of microbiological and radiological diagnostics. Tuberculin diagnosis.	PR-1 PR-2	Nevzgoda A.A.
L-3	Treatment of tuberculosis: basic principles and methods. Prophylaxis of tuberculosis.	General principles of treatment of a patient with tuberculosis. Antimycobacterial drugs. Standard treatment regimens for patients with tuberculosis. Criteria for the treatment of patients with tuberculosis.	PR-4 PR-5	Nevzgoda A.A.
L-4	Primary forms of tuberculosis.	Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis, treatment of primary forms of tuberculosis.	PR-9 PR-10 PR-11	Nevzgoda A.A.
L-5	Secondary forms of tuberculosis. Tuberculosis of the mucous membranes of the oral cavity and maxillofacial bones	Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis, treatment of secondary forms of tuberculosis. The main clinical syndromes of tuberculosis of maxillofacial localization. Diagnosis, differential diagnosis, treatment, consequences.	PR-1 PR-2 PR-3	Nevzgoda A.A.
P-1	Definition of tuberculosis as a	The main epidemiological indicators of tuberculosis	PR-3	Nevzgoda A.A. Volnytska K.I.

7. Topics and content of the course

	disease. Epidemio-logy of tuberculosis. The causative agent of tuberculosis, its properties.	(infection, morbidity, mortality). Risk factors for tuberculosis. The causative agent of tuberculosis, morphological structure, properties. Tuberculosis infection, ways of penetration and spread of MBT in the human body. Clinical classification of tuberculosis. Formulation of the diagnosis		Piskur Z.I.
		of tuberculosis according to the classification.		
P-2	Features of clinical examination of a patient with tuberculosis. X- ray diagnosis of tuberculosis. Methods of X-ray examination in a tuberculosis clinic. Radiological syndromes of tuberculosis.	Ways and methods of tuberculosis detection. Categories of the population with an increased risk of tuberculosis: complaints, anamnesis of the disease, course, epidemiological anamnesis, transferred diseases, working and living conditions. Features of clinical examination of a patient with tuberculosis. Methods of microbiological diagnosis of tuberculosis. Methods of X-ray examination of patients. X-ray syndromes. Clinical forms of pulmonary tuberculosis in the X-ray image.	PR-1 PR-2	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
P-3	Microbiological diagnosis of tuberculosis. Tuberculin diagnosis.	Microbiological diagnostics: methods of bacterioscopic, bacteriological and biological detection of MBT, the value of their results for the diagnosis of tuberculosis. Determination of the sensitivity of MBT to anti-TB drugs. Express methods of molecular genetic diagnosis of tuberculosis. The purpose of tuberculin testing. Mantoux test with 2 TU PPD- L.	PR-1 PR-2	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
P-4	Treatment of tuberculosis: basic principles. Anti-TB drugs. Standart drug regimens.	General principles of treatment of a patient with tuberculosis. Antimycobac-terial drugs. Standard treatment regimens for patients with tuberculosis. Monitoring the condition of patients with tuberculosis during treatment. Chemoresistant tuberculosis.	PR-4 PR-5 PR-8	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.

		Criteria for the treatment of		
		patients with tuberculosis.		
P-5	Prevention of	Social prevention. Sanitary	PR-9	Nevzgoda A.A.
	tuberculosis.	prevention is its task. Work in	PR-10	Volnytska K.I.
		the sourse of tuberculosis	PR-11	Piskur Z.I.
		infection on tuberculosis		
		prevention. BCG vaccination		
		and revaccination.		
		Chemoprophylaxis of		
		tuberculosis, indications,		
D (methods. Infection control.		
P-6	Clinical	Principles of construction of	PR-2	Nevzgoda A.A.
	classification of	classification of tuberculosis.	PR-3	Volnytska K.I.
	tuberculosis	Sections of classification: type		Piskur Z.I.
		of tuberculosis process, main		
		clinical forms, characteristics		
		of tuberculosis process and its		
		complications, clinical and dispensary categories of		
		patient registration, efficiency		
		of treatment of patients with		
		tuberculosis, consequences of		
		tuberculosis, consequences of tuberculosis. Formulation of		
		the diagnosis of tuberculosis		
		according to the classification.		
P-7	Tuberculosis of	Morphological basis of	PR-1	Nevzgoda A.A.
- '	unknown	tuberculosis of unknown	PR-2	Volnytska K.I.
	location.	location. Clinical manifesta-	PR-3	Piskur Z.I.
	Tuberculosis of	tions, course, differential	PR-5	
	intrathoracic	diagnosis, treatment. Clinical	PR-12	
	lymph nodes.	and radiological forms of		
	Primary	tuberculosis of intrathoracic		
	tuberculous	lymph nodes. Pathogenesis,		
	complex.	pathomor-phology, clinic,		
	Pathogenesis,	course, diagnosis, differential		
	pathomorphology,	diagnosis, treatment, conse-		
	clinic, diagnosis,	quences. Pathogenesis and		
	differential	pathomor-phology of the		
	diagnosis,	primary tuberculosis complex.		
	treatment,	Clinical manifestations,		
	consequences.	course, diagnosis, differential		
	Complications of	diagnosis, treatment,		
	primary forms of	consequences. Complications		
	tuberculosis.	of tuberculosis of intrathoracic		
		lymph nodes and primary		
D 0		tuberculosis complex.		
P-8	Disseminated	Pathogenesis and	PR-1	
	tuberculosis.	pathomorphology of	PR-2	Nevzgoda A.A.
	Miliary	disseminated pulmonary	PR-3	Volnytska K.I.
	tuberculosis.	tuberculosis. Clinical variants	PR-5	Piskur Z.I
	Tuberculosis of	and their radiological features.	PR-12	
	nervous system.	Clinic, diagnosis, differential		
	Tuberculous	diagnosis, treatment of		

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	meningitis.	disseminated tuberculosis.		
	Pathogenesis,	Consequences. Pathoge-nesis		
	pathomorphology,	and pathomorphology of		
	clinic, diagnosis,	miliary tuberculosis. Clinical		
	differential	options, diagno-sis, differential		
	diagnosis,	diagnosis, treatment,		
	treatment,	consequences. Pathogenesis		
	consequences.	and patho-morphology of		
		tuberculous meningitis. Clinic,		
		features of diagnosis and		
		course, differential diagnosis,		
		treatment, consequences.		
P-9	Focal and	Pathogenesis and	PR-1	Nevzgoda A.A.
	infiltrative	pathomorphology, methods of	PR-2	Volnytska K.I.
	tuberculosis.	detection, clinic and course of	PR-3	Piskur Z.I.
	Caseous	focal and infiltrative forms of	PR-5	1 ISKUI 2.1.
	pneumonia.	tuber-culosis. Features of	PR-12	
	Fibro-caver-nous	caseous pneumonia. Causes of	1 11-12	
	tuberculosis.	fibrocavernous pulmonary		
	Cirrhotic			
	tuberculosis. TB	tuberculosis. Pathogenesis,		
		pathomor-phology, main		
	pleuratis and	clinical syndromes,		
	empyema.	radiological signs of		
	Pathogenesis,	fibrocavernous and cirrhotic		
	pathomor-	pulmonary tuberculosis.		
	phology, clinic,	Differential diagnosis,		
	diagnosis,	treatment, consequences.		
	differential			
	diagnosis,			
	treatment,			
	consequences.			
P-10	Tuberculosis of	Pathogenesis,	PR-1	
	the maxillofacial	pathomorphology and	PR-2	Nevzgoda A.A.
	localization.	classification of tuberculous	PR-3	Volnytska K.I.
	Clinic, diagnosis.	maxillofacial localization. The	PR-6	Piskur Z.I.
	Features of	main clinical syndromes of	PR-7	
	treatment of	tuberculosis of maxillofacial	PR-8	
	patients with	localization. Diagnosis,		
	tuberculosis of	differential diagnosis,		
	the mucous	treatment, consequences.		
	membrane of the	Features of treatment of		
	oral cavity and	patients with tuberculosis of		
	maxillofacial	the mucous membrane of the		
	bones.	oral cavity and maxillofacial		
	Complications of	bones. Pathogenesis, clinic,		
	second-dary	diagnosis and principles of		
	tuberculosis:	treatment of hemoptysis,		
	hemoptysis,	pulmonary hemorrhage,		
	hemorrhage,	spontaneous pneumothorax,		
	spontaneous	chronic pulmonary heart		
	-	disease and amyloidosis.		
	pneumotho-rax,			
	chronic cor pulmonare,	Providing emergency care for pulmonary hemorrhage,		
	MILITION DOPA	DUUDODARY DEMORTAGE		

	amyloidosis of	spontaneous pneumothorax.		
SW-1	internal organs.The causative agent of tuberculosis, its types and forms of existence. The concept of persistence and reversion of mycobacteria tuberculosis.Chemist-resistant MBT and their clinical value.	The causative agent of tuberculosis, morphological structure, properties. Tuberculosis infection, ways of penetration and spread of MBT in the human body.	PR-2 PR-3	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-2	The main epidemiological indicators of tuberculosis and their rating.	The main epidemiological indicators of tuberculosis (infection, morbidity, mortality).	PR-1 PR-2 PR-3	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-3	The concept of timely, untimely and late detection tuberculosis. Decreed contingents of the population. High risk groups for tuberculosis.	Risk factors for tuberculosis. Methods of microbiological and radiological diagnostics.	PR-1 PR-2 PR-3	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-4	Nonspecific therapy of tuberculosis. Surgical treatment. Facilities in sanatoria and health resorts.	Hygiene-dietary regimen, pathogenetic and symptomatic treatment. Methods of surgical treatment of tuberculosis. Indications for surgery for tuberculosis. Facilities in sanatoria and health resorts.	PR-4 PR-5	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-5	Surgical methods of tuberculosis treatment.		PR-1 PR-2	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-6	Pulmonary tuberculoma. Clinic, diagnosis, treatment.	Pathogenesis and pathomorphology, methods of detection, clinic and course of tuberculoma. Classification of tuberculomas.	PR-2 PR-3 PR-5	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-7	Tuberculosis of the peri-pheral lymphatic nodes. Bone and joints tuberculosis.	Pathogenesis, pathomorphology, clinical forms of tuberculosis of peripheral lymph nodes. Diagnosis, treatment. Clinic of tuberculosis of bones and joints. Diagnosis, treatment.	PR-1 PR-2 PR-3 PR-4	Nevzgoda A.A. Volnytska K.I. Piskur Z.I.
SW-8	Tuberculosis and	Development of tuberculosis in	PR-1	Nevzgoda A.A.

	pregnancy.	pregnant women. Clinic,	PR-2	Volnytska K.I.
		diagnosis of tuberculosis	PR-3	Piskur Z.I.
		during pregnancy. Features of		
		treatment.		
SW-9	Tuberculosis in	Detection of tuberculosis in	PR-1	Nevzgoda A.A.
	HIV/AIDS	HIV-infected and AIDS	PR-2	Volnytska K.I.
	patients. Clinic,	patients. Features of	PR-3	Piskur Z.I.
	diagnosis,	tuberculosis in HIV-infected	PR-5	
	features of the	and AIDS patients. Treatment		
	course and	and prevention of tuberculosis		
	treatment.	in HIV-infected and AIDS		
		patients.		
SW-10	Categories and	Categories of the population	PR-1	Nevzgoda A.A.
	groups of	with an increased risk of	PR-2	Volnytska K.I.
	dispensary	tuberculosis. Involvement of	PR-3	Piskur Z.I.
	observation of	health workers in detected		
	patients of	tuberculosis.		
	tuberculosis.			

Teaching methods

<u>Verbal - explanations</u>, 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 criteria						
Assessment of the student's oral response						
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»			
The student has deeply and firmly mastered the material; consistently, competently and logically teaches it, closely connects theory with practice, freely copes with issues.	The student firmly knows the material, competently and essentially answers, does not make significant mistakes in answering questions.	The student has knowledge of the basic material, but has not mastered its details, makes mistakes, breaks the sequence in the presentation of the material.	The student does not know the program material, makes significant mistakes, is unsure of the answer.			
Evaluation of solving test tasks						
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»			
100-91%	90-76%	75-51%	50% or less			
Evalu	ation of the solution of a	a clinical situational p	oblem			
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»			
The clinical diagnosis of the patient is precisely formulated and fully substantiated and the treatment plan	Accurately formulated and partially substantiated clinical diagnosis of the patient, inaccuracies	There were difficulties in substantiating the clinical diagnosis, drawing up a treatment plan for	No answer to the problem is given.			

is made.	in the treatment plan.	the patient.			
Assessment of practical skills demonstration					
«perfectly»	«good»	«satisfactorily»	«unsatisfactorily»		
mastered the practical		serious mistakes in the process of	The student has not developed practical skills; did not form the skills provided by the program.		

Distribution of points received by students

Types of control - current and final.

The form of final control in accordance with the curriculum is an exam.

Current control is carried out during the training sessions and is aimed at verifying students' learning of the material.

Estimation of the current educational activity. When assessing the mastering of each topic in the course of the current educational activity, the student is assessed on a 4- point (traditional) scale, taking into account the criteria for assessing the discipline. It takes into account all types of works provided for by the curriculum. A student receives an assessment from each topic. Forms of assessment of the current academic activity are standardized and include the control of theoretical and practical training. Shown on a traditional scale of evaluation are converted to points.

The maximum number of points a student can score for the current semester entrance exam for the entrance exam is 120 points. **The minimum number of points** that a student must score for the current study activity per semester for admission to the exam is 72 points.

The calculation of the number of points is based on the student's assessment of the traditional scale during the study of discipline, by calculating the average arithmetic (AA), rounded to two decimal places. The resulting value is converted to a score on a multi-scale scale.

The calculation of the number of points is based on the student's score on a 4-point

(national) scale during the study of the discipline, by calculating the arithmetic mean (AM), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:x = AMx120

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Determination of the number of points the student got from the discipline

An assessment from the discipline that completes the exam is defined as the sum of points for the current educational activity (not less than 72) and the marks for the exam (not less than 50).

Disciplines are independently converted into both the ECTS and 4-point scale. The ECTS scores on the 4-point scale are not converted and vice versa.

Points of students studying in one specialty, taking into account the number of points scored from the discipline, are ranked on the ECTS scale as follows:

Assessment of ECTS	The statistical indicator
Α	The best 10% of students
В	The next 25% of students
С	The next 30% of students
D	The next 25% of students
Ε	The last 10% of students

Score points for students who have successfully completed the program are converted to the traditional 4-point scale by the absolute criteria listed in the table below:

Score points	Score on the 4- score
From 170 to 200 points	5
From 140 to 169 points	4
From 139 points to the minimum number	3
of points a student should	
Below is the minimum number of points	2
that the student should	

The ECTS mark on a traditional scale is not converted because the ECTS scale and the four-point scale are independent.

Objectivity of assessment of students' educational activity is checked by statistical methods (correlation coefficient between ECTS assessment and national scale assessment).

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.

10. Literature

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8. Infectious diseases with the basics of phthisiopulmonology. Training manual / Il'nitsky I. G., Chornovil AV, Gritsko R. Yu., Kostik O. P., Sichkoriz O. Ye., Rudnitskaya H. I.- Lviv, 2009.- 404 p.

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

Information resources

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

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

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

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 instructions for practical lessons for students;
- Indicative maps for the organization of self-work of students;
- Test and control tasks for practical lessons;
- Methodical support of the final control:
- database of test tasks
- list of theoretical issues submitted for final control
- situational tasks
- sets of educational radiographs and tomograms.

12. Additional Information

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There is a scientific circle at the department, the head is prof. Kostyk Olga Petrovna, <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 Alexander Nevzgoda; Ph.D., Associate Professor

Looi

Chief of Department

Prof. Kostyk O.P.