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Khanty-Mansiysk Autonomous Okrug-Ugra
"Surgut State University"

Approved by
Deputy Rector for Academic Affairs
_____E.V. Konovalova
11 June 2025, Record No. №5

Phthisiatry
Syllabus

Department **Multidisciplinary Clinical Training**
Curriculum s310501-ЛечДелоИн-25-5.pli.xml
Specialty 31.05.01 General Medicine
Qualification **General Practitioner**
Form of education **Full-time**
Total (in credits) **5**

Total academic hours 180 Control:
including: Exam (10th term), Credit (9th term)
Classes 128
Self-study 25
Control hours 27

Course outline in terms

Academic year (Term)	5(5.9)		5 (5.10)		Total	
Weeks	17,3		17,3			
Types of classes	Cur	Syl	Cur	Syl	Cur	Syl
Lectures	16	16	16	16	32	32
Practical	48	48	48	48	96	96
Contact	64	64	64	64	128	128
Self-study	8	8	17	17	25	25
Control hours			27	27	27	27
Total	72	72	108	108	180	180

The Syllabus is compiled by:

PhD in Medical Sciences (Medicine), Associate Professor Nelidova N.V.

The Syllabus

Phthisiatry

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "11" June_ 2025, Record No.5

The Syllabus was approved by the department

Multidisciplinary Clinical Training

Head of Department, Doctor of Medicine, Professor Klimova N.V.

1. COURSE OBJECTIVES	
1.1	The objectives of mastering Phthisiatry are to acquire knowledge and practical skills in the detection, diagnosing, performing differential diagnosis of tuberculosis, extrapulmonary tuberculosis and other respiratory diseases, as well as prevention and treatment of tuberculosis.

2. COURSE OVERVIEW	
Course code (in curriculum)	Б1.Б.39
2.1	Assumed background: Clinical Anatomy Normal Physiology Anatomy Histology, Embryology, Cytology Biology Clinical Practice for acquiring professional skills and experience (junior medical staff assistant) Educational practice, clinical (care of a therapeutic patient, care of a surgical patient) Chemistry Bioethics History of Medicine
2.2	Post requisites: Hospital Therapy, Endocrinology Hospital Surgery, Pediatric Surgery Infectious Diseases Outpatient Therapy Public Health and Health Care, Public Health Economics Clinical Epidemiology Clinical Pharmacology Anesthesiology, Resuscitation, Intensive Care Medical Rehabilitation Hospital Therapy, Endocrinology Disaster Medicine

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
PC-1.1	Demonstrates knowledge in etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental, identifies the patient's common pathological conditions, symptoms, disease syndromes and diagnoses nosological forms according to the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions
PC-1.2.	Carries out diagnostics, evaluates the prognosis (short-, medium- and long-term course) of the disease, identifies acute complications and complications of chronic diseases
PC-2.1	Assesses the condition of a patient requiring emergency or urgent medical care, E950, including a state of clinical death
PC-3.1	Examines the patient (handle the patient's complaints, anamnesis, physical data based on the examination results, determines the necessary examination plan, evaluates the parameters of laboratory, instrumental, pathological and anatomical and other methods in order to diagnose diseases, assesses the prognosis (short-, medium- , long-term) of its course and outcomes
PC-3.2	Makes an initial and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Health Problems X - XI revisions and current clinical classifications
PC-3.3	Carries out early and differential diagnostics of diseases
PC-3.4	Provides routing and management of patients based on the current legislation (standards, procedures for the provision of medical care, Clinical guidelines)
PC-5.2	Provides various categories of patients with outpatient treatment, treatment in hospitals and high-tech medical care (HMC) centers applying drugs, medical devices and medical nutrition, according to clinical pattern and current procedures, standards of medical care, Clinical guidelines (treatment protocols)
PC-7.2	Organizes and monitors immunization against infectious diseases in the adult population in accordance with current healthcare regulations, clinical guidelines (treatment protocols), and medical care standards. Determines medical indications for imposing restrictive measures (quarantine) and for referral to a specialist physician in cases of infectious (parasitic) diseases
PC-7.4	Draws up and sends to the territorial body of the Federal Service for Supervision of Consumer Rights Protection and Human Wellbeing of an emergency notification when an infectious or occupational disease is detected and to take anti-epidemic measures in the event of a focus of infection, including quarantine measures when detecting especially dangerous (quarantine)

infectious diseases							
PC-8.1 Demonstrates the ability and readiness to organize planning and reporting of medical personnel, to analyze the performance indicators of a medical institution and its departments, present the analysis results							
PC-8.2 Keeps medical records, including the electronic format							
As a result of mastering the discipline, the student must							
3.1	know: <ul style="list-style-type: none">the modern definition of tuberculosis, reflecting the etiology, pathogenesis, clinical and morphological characteristics, indicating the leading clinical syndrome of one form or another;to reveal the full content of the theoretical foundations of the subject;how to correctly interpret the basic concepts of immunology, justify the need for clinical and immunological examination, perform differential diagnosis of diseases of the immune system, evaluate the importance of immunogenetic factors in the pathogenesis and diagnosis of human immuno-mediated diseases, in organ and tissue transplantation;the mandatory set of diagnostic methods used in the examination of tuberculosis in adults and children, clinical symptoms, physical, microbiological, radiological, immunological signs characteristic of tuberculosis in adults and children;methods of detection of tuberculosis patients among adults, children and adolescents;methods of specific and sanitary prevention of tuberculosis in adults and children;organizational forms of tuberculosis patient’s treatment, the list of anti-tuberculosis drugs, indications for their prescription;the necessary set of therapeutic measures for complications of tuberculosis pulmonary bleeding, spontaneous pneumothorax, in the event of adverse reactions to anti-tuberculosis drugs.						
3.2	be able to: <ul style="list-style-type: none">make a plan of examination of the patient suspected of tuberculosis;interview the patient and his / her relatives, conduct a physical examination of the patient, formulate a preliminary diagnosis, formulate an opinion on the patient's health and draw up medical documentation on the results of the examination;examine sputum smears under a light microscope to detect MBT and evaluate the results of bacterioscopic and bacteriological examination;detect, evaluate and describe pathological changes detected by radiation methods in patients with tuberculosis;determine the indications and evaluate the result of skin-allergic Mantoux test and provocative Koch test;determine the indications and contraindications for TB vaccination, revaccination and to assess the course of vaccination reaction with intradermal administration of BCG vaccine; to determine the indications for the chemotherapy of tuberculosis;determine the indications for antibiotic therapy, assess its tolerability and, if necessary, make prescriptions to eliminate adverse reactions of drugs;diagnose emergency conditions in tuberculosis patients and provide them with first aid;establish the type of focus of tuberculosis infection and make a plan of measures for its recovery;give recommendations for preventive measures specifically for the patient and the team in the Far North;solve general deontological issues related to the examination and treatment of a patient with tuberculosis;identify the nearest and remote forecast for supervised patient in relation to life, healing and disability.						
4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)							
Class Code	Topics /Class type	Term / Academic	Academic hours	Competences	Literature	Interactive	Notes
	Section 1. Theoretical foundations of Phthisiatry:						
1.1	Introduction to the subject of Phthisiatry / lecture /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-5.2 PC-7.2 PC-7.4 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
1.2	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-7.4 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
1.3	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / lecture /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	

1.4	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
1.5	Epidemiology, etiology of tuberculosis / lecture /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.1 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
1.6	Immunity and Allergy in tuberculosis /practical classes/	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
1.7	Immunity and Allergy in tuberculosis /practical classes/	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
	Section 2. Tuberculosis dispensary (clinic)			PC-1.2. PC-2.1 PC-3.1		0	
2.1	Organization and system of anti-tuberculosis care /lecture /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
2.2	Methods and organization of early detection of tuberculosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
2.3	Methods and organization of early detection of tuberculosis / lecture /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
2.4	The value of the x-ray examination of the chest for the detection of focal pulmonary tuberculosis / self-study/	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
2.5	Prevention of tuberculosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
2.6	Prevention of tuberculosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
2.7	Prevention of tuberculosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	

	Section 3. Diagnosing tuberculosis					0	
3.1	Features of clinical examination of patients with tuberculosis / lecture /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1	0	
3.2	Features of clinical examination of patients with tuberculosis / practical classes /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L2.1	0	
3.3	Radiation diagnostics of tuberculosis / practical classes /	9	8	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
3.4	Immunodiagnosis / practical classes /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
3.5	Immunodiagnosis /lecture /	9	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
3.6	Immunodiagnosis / self-study /	9	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
3.7	Test	9	0	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	Test
3.7	Credit	9	0	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	oral quiz
	Section 4. The clinical course of tuberculosis					0	
4.1	Clinical classification of tuberculosis /lecture /	10	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.2	Primary tuberculosis /lecture /	10	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	

4.3	Primary tuberculosis / practical classes /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
4.4	Primary tuberculosis / Self-study /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
4.5	Miliary and disseminated pulmonary tuberculosis. Tuberculous meningitis /lecture /	10	2	PC-1.2 PC-1.1 PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
4.7	Solving clinical problems / self-study/	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.8	Miliary and disseminated pulmonary tuberculosis. Tuberculous meningitis / practical classes /	10	8	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
4.9	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Pulmonary tuberculosis / lecture /	10	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
4.10	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Pulmonary tuberculosis / practical classes /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.12	Differential diagnosis of tuberculosis and lung cancer (peripheral)/ self-study /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.13	Cavernous, fibrous-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis. The state of emergency in the Phthiology / lecture /	10	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3 E1 E2 E3	0	
4.14	Cavernous, fibrous-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis. The state of emergency in the Phthiology / practical classes /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.15	Differential diagnosis of destructive pulmonary tuberculosis / self-study	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.16	Tuberculous pleurisy / lecture /	10	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.17	Tuberculous pleurisy. Pulmonary tuberculosis and diseases of other organs and systems / practical classes /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	

4.18	Fibrinous pleurisy as a complication of pulmonary tuberculosis and its treatment / self-study /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.19	Extrapulmonary tuberculosis / practical classes /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
4.20	Extrapulmonary tuberculosis / lecture /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
4.21	Differential diagnosis of tuberculous meningitis. Treatment of patients with tuberculosis meningitis / practical classes/	10	8	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	
	Section 5. Treatment of tuberculosis.						
5.1	General principles and methods of tuberculosis treatment / lecture /	10	2	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
5.2	General principles and methods of tuberculosis treatment / practical classes /	10	4	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
5.3	Collapse therapy. Indications and efficiency / practical classes /	10	4	PC-1.1 PC-1.2 PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 E1 E2 E3	0	
5.4	General principles and methods of tuberculosis treatment /Self-study /	10	5	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L3.1 L 2.1 E1 E2 E3	0	
5.5	Test	10	0	PC-1.2. PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	Test
	Section 6. Exam						
6.1	/ Exam/	10	27	PC-1.1 PC-1.2 PC-2.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.2 PC-7.2 PC-7.4 PC-8.1 PC-8.2	L 1.1 L2.1 L3.1 E1 E2 E3	0	oral quiz
5. ASSESSMENT TOOLS							
5.1. Tests and tasks							
Supplement							
5.2. Topics for written papers							
Supplement							
6. COURSE (MODULE) RESOURCES							
6.1.1. Core							
	Authors	Title			Publish., year		Quantity

L 1.1	Koshechkin V.A.	Phthisiatry: textbook.	M.: GEOTAR-Media, 2023. electronic resource	1
6.1.2. Supplementary				
	Authors	Title	Publish., year	Quantity
L 2.1	Artamonova M.N., Potaturkina-Nesterova N.I., Ilyina N.A., Nemova I.S	Medical Microbiology, Virology and Immunology. Lecture Notes: textbook	M.: GEOTAR-Media, 2020. electronic resource	1
6.1.3. Methodical development				
	Authors	Title	Publish., year	Quantity
L 3.1	L. L. Kolesnikov, D. B. Nikitiuk, S. V. Klochkova, I. G. Stelnikova	Textbook of Human Anatomy. In 3 vol. Vol. 2. Splanchnology and cardiovascular	M.: GEOTAR-Media, 2020 electronic resource	1
6.2. Internet resources				
Э1	E-data bases: RSL, Orbicon, Medline.			
Э2	Student Consultant http://www.studmedlib.ru			
Э3	https://www.researchgate.net/publication/			
6.3.1 Software				
6.3.1.1	Operational system Microsoft, applied programs pack Microsoft Office			
6.3.1.2	Internet access (Wi-Fi)			
6.3.2 Information Referral systems				
6.3.2.1	E-data bases: RSL, Orbicon, Medline.			
6.3.2.2	Student Consultant http://www.studmedlib.ru			
7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)				
A classroom for conducting lecture-type classes at SurSU. The lecture hall is equipped with a multimedia projector, a screen, a laptop, a stationary chalkboard, standard educational furniture: tables, chairs.				
Practical classes, individual consultations, ongoing monitoring and intermediate certification are conducted in the classroom at the Surgut District Clinical Hospital (Infectious Diseases Building).				