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

Approved by
 Deputy Rector for Academic Affairs

_____ E.V. Konovalova

“ 13 June 2024, Record №5

Phthisiatry

Syllabus

Department **Multidisciplinary Clinical Training**

Curriculum **s310501-ЛечДелоИн-24-5.pli.xml**
Specialty 31.05.01 General Medicine

Qualification **General Practitioner**

Form of education **Full-time**

Total (in credits) **5**

Total academic hours **180**

including:

Classes **96**

Self-study **48**

Control hours **36**

Control:
 Exam (9rd term), credit (8th term)

Course outline in terms

Academic year (Term)	4 (4.8)		5 (5.9)		Total	
	17,3		17,3			
Weeks	Cur	Syl	Cur	Syl	Cur	Syl
Lectures	16	16	16	16	32	32
Practical	32	32	32	32	64	64
Contact	48	48	48	48	96	96
Self-study	24	24	24	24	48	48
Control hours	-	-	36	36	36	36
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 February 9, 2016 No. 95)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "13" june_ 2024, Record No.5

The Syllabus was approved by the department

Multidisciplinary Clinical Training

08.04.2024, Record No.16

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)	B1.B.39
2.1	Assumed background: Clinical Anatomy Normal physiology Anatomy Histology, embryology, cytology Biology Industrial practice, to obtain professional skills and professional experience (assistant to junior medical staff) Educational practice, clinical (care of a therapeutic patient, care of a surgical patient) Chemistry Bioethics History of medicine
2.2	Post requisites: Ophthalmology Dentistry Hospital Therapy, Endocrinology Hospital Surgery, Pediatric Surgery Dermatovenereology Infectious Diseases Outpatient Therapy Public health and health care, Economy of Public Health Clinical Epidemiology Clinical Pharmacology Anesthesiology, Resuscitation, Intensive Care Medical Rehabilitation Hospital Therapy, Endocrinology Disaster medicine

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

- UC-1. Able to critically analyze problem situations on the basis of a systematic approach, develop a strategy of action
- GPC-9. Able to implement the principles of quality management in professional activities
- PC-5 Able to develop a treatment plan (medication, non-medication, palliative) based on the established diagnosis, to organize personalized treatment, including for pregnant women, elderly and elderly patients, as well as to evaluate the effectiveness and safety of the therapy provided.
- PC-6 Capable of assessing the possibility and effectiveness of rehabilitation or habilitation measures in a patient with loss of body functioning, labor activity
- PC-8 Capable of maintaining medical records and organizing the activities of medical staff
- PC-9 Capable of analyzing and publicly presenting medical information based on evidence-based medicine
- PC-10 Capable of participating in the introduction of new methods and techniques aimed at protecting the health of citizens

By mastering of the course students 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;
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	<ul style="list-style-type: none"> organizational forms of tuberculosis patients 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	<p>be able to:</p> <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 /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.2	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.3	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.4	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.5	Epidemiology, etiology of tuberculosis / self-study /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.6	Immunity and Allergy in tuberculosis /self-study/	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

	Section 2. Tuberculosis dispensary (clinic)						
2.1	Organization and system of anti-tuberculosis care /lecture /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.2	Methods and organization of early detection of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.3	Methods and organization of early detection of tuberculosis / lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.4	The value of the x-ray examination of the chest for the detection of focal pulmonary tuberculosis / self-study/	8	8	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.5	Prevention of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.6	Prevention of tuberculosis / lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.7	Prevention of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
	Section 3. Diagnosing						
3.1	Features of clinical examination of patients with tuberculosis / lecture /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1		
3.2	Features of clinical examination of patients with tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L1.2		
3.3	Radiation diagnostics of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

3.4	Immunodiagnosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
3.5	Immunodiagnosis /lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
3.6	Immunodiagnosis / self-study /	8	8	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
3.7	Credit	8	0	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
	Section 4. The clinical course of tuberculosis						
4.1	Clinical classification of tuberculosis /lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.2	Primary tuberculosis /lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.3	Primary tuberculosis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.4	Primary tuberculosis / Self-study /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.5	Miliary and disseminated pulmonary tuberculosis. Tuberculous meningitis /lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.7	Solving clinical problems / self-study/	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.8	Miliary and disseminated pulmonary tuberculosis. Tuberculous meningitis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.9	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Pulmonary tuberculosis / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

4.10	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Pulmonary tuberculosis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.12	Differential diagnosis of tuberculosis and lung cancer (peripheral)/ self-study /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.13	Cavernous, fibrous-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis. The state of emergency in the Phthisiology / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.14	Cavernous, fibrous-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis. The state of emergency in the Phthisiology / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.15	Differential diagnosis of destructive pulmonary tuberculosis / self-study	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.16	Tuberculous pleurisy / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.17	Tuberculous pleurisy. Pulmonary tuberculosis and diseases of other organs and systems / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.18	Fibrinous pleurisy as a complication of pulmonary tuberculosis and its treatment / self-study /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.19	Extrapulmonary tuberculosis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.20	Extrapulmonary tuberculosis / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.21	Differential diagnosis of tuberculous meningitis. Treatment of patients with tuberculosis meningitis / self-study/	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
	Section 5. Treatment of						
5.1	General principles and methods of tuberculosis treatment / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

5.2	General principles and methods of tuberculosis treatment / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
5.3	Collapse therapy. Indications and efficiency / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
5.4	General principles and methods of tuberculosis treatment /Self-study /	9	24	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
Section 6. Exam							
6.1	Control work /Control /	9	0	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
6.2	/ Exam/	9	27	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

5. ASSESSMENT TOOLS

5.1. Tests and tasks

Presented by a single document

5.2. Topics for written papers

Presented by a single document

6. COURSE (MODULE) RESOURCES

6.1.1. Core

	Authors	Title	Publish., year	Quantity
L1.1	Koshechkin V.A.	Phthisiatry: textbook.	Electronic resource	1
L1.2	Koshechkin V.A.	Phthisiatry	Electronic resource	1

6.1.2. Supplementary

	Authors	Title	Publish., year	Quantity
L2.1	Artamonova M.N., Potaturkina-Nesterova N.I., Ilyina N.A., Nemova I.S	Medical Microbiology, Virology and Immunology. Lecture Notes [Electronic resource]: textbook /	Electronic resource	1

6.2. Internet resources

E1	E-data bases: RSL, Orbicon, Medline.
E2	Student Consultant http://www.studmedlib.ru
E3	https://www.researchgate.net/publication/

6.3.1 Software

6.3.1.1 | Operational system Microsoft, applied programs pack Microsoft Office

6.3.2 Information Referral systems

6.3.2.1 | <http://www.garant.ru>

6.3.2.2 | <http://www.consultant.ru>

7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)

1. Classrooms for lectures are equipped with a multimedia projector, a screen, a laptop, a stationary chalkboard, standard educational furniture: tables, chairs

2. Classrooms for practical classes are equipped with a multimedia projector, a screen, a laptop, a stationary chalkboard, standard educational furniture: tables, chairs in Surgut District Clinical Hospital (SCDH)

3. Tables, posters, diagrams, drawings