
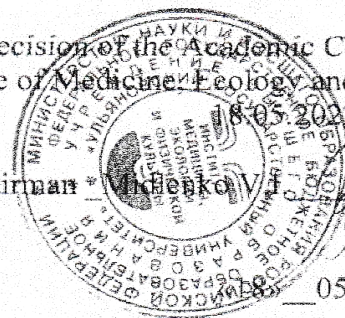


Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the discipline		

APPROVED BY  
by the decision of the Academic Council of the USU  
Institute of Medicine, Ecology and Physical Culture  
18.05.2022 Record № 9/239

Chairman Michenko V. I.  
(Signature, Name)



05. 2022.

### EDUCATIONAL PLAN

Discipline	Phthisiology
Faculty	Medical faculty of T.Z. Biktimirov
Name of department	Department of Faculty Therapy
Course	6 course

Direction (specialty) \_\_\_\_\_ 31.05.01 "General Medicine" \_\_\_\_\_

Orientation (profile/specialty) not provided

Form of training \_\_\_\_\_ full-time \_\_\_\_\_

Date of introduction into the academic process at Ulyanovsk State University 01.09.2022


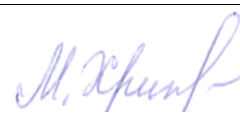
Revised at the Department meeting, Record No. 9 of 28 « 04 » 2023


Revised at the Department meeting, Record No. 9 of 16 « 04 » 2024

Revised at the Department meeting, Record No. \_\_\_\_\_ of \_\_\_\_\_ « \_\_\_\_\_ » 20

Information about the authors:

Initials	Abbreviation of the department	Degree, scientific rank
Slobodniuk N.A.	Faculty Therapy	Docent, c.m.s.

Agreed:	Agreed:
Head of department, developing discipline of faculty therapy	Head of the Graduate Department of Hospital Therapy
 / <u>Ruzov V. I.</u> / «16» 05.2022	 / <u>Visa-Khripunova M. A.</u> / «16» 05 2022

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## 1. OBJECTIVES AND AIM OF

Objectives of the discipline: to teach students methods of diagnosis, detection, treatment and prevention of tuberculosis.

Tasks of mastering the discipline:

- master the technique of examining a patient with tuberculosis;
- master the methods of diagnosis and differential diagnosis of pulmonary tuberculosis and other localization;
- master the methodology of organizing, planning and conducting immunodiagnostics and fluorographic examinations for the timely detection of tuberculosis;
- master the methodology of organizing and planning specific and non-specific tuberculosis prevention.


## 2. PLACE OF THE SUBJECT IN THE STRUCTURE OF GEP:

Discipline “Phthiology” refers to the basic (mandatory) part of block 1 of the specialty according to GEF 988 (12.08.2020) and the curriculum of the specialty 05.31.01 "Medical business" section B1, approved by the rector of Ulyanovsk State University.

**The study of phthiology is preceded by the study of the following disciplines:**

Propedeutics of Internal Medicine; General surgery; Pharmacology; Clinical pharmacology; Pathological anatomy; Dentistry; Dermatovenereology; Neurology, Medical genetics, Neurosurgery; Otolaryngology; Pediatrics; Faculty surgery; Obstetrics, Gynecology; Faculty therapy; Ophthalmology; Psychiatry, Medical psychology; Industrial disease; Endocrinology; Infectious diseases; Traumatology and Orthopedics; Forensic medicine; Clinical psychology; Urology and Andrology; Topical issues of gynecology; Contemporary issues habitual noncarrying of pregnancy; Scientific style of speech; Topical issues of andrology; Scientific text analysis; Therapeutic patient care; Assistant to junior medical personnel; Introductory practice; Assistant Ward Nurse; Assistant Nurse; Practice in obtaining professional skills and professional experience in the positions of secondary medical personnel; Diagnostic practice; Assistant doctor of an inpatient institution; Physician assistant at an outpatient clinic.


**Discipline “Phthiology Discipline “Phthiology” will contribute to the development of the following disciplines:** Hospital therapy; Polyclinic therapy; Hospital surgery, Pediatric surgery; Radiodiagnosis; Oncology, radiation therapy; Palliative medicine; Diabetology, Emergency endocrinology; Topical issues of internal diseases; Modern aspects of oncology; Surgical gastroenterology and endoscopy; Combined injury; Clinical electrocardiography.

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### 3. LIST OF EXPECTED RESULTS OF INSTRUCTION ON THE SUBJECT (UNIT), CORELATED WITH PLANNED RESULTS OF COMPLETING THE PROGRAM

The study of the subject «Phthisiology» within the completion of the educational program is directed towards the formation of the following general and professional competences in students:

Code and name of the general professional competence	Code and name of the indicator of achievement of general professional competence
GPC-7. aptitude to prescribe treatment and monitor its effectiveness and safety	<p><b>IDK1 GPC-7</b></p> <p>Know: the classification and main characteristics of drugs, pharmacodynamics and pharmacokinetics, indications and contraindications for the use of anti-tuberculosis drugs of the 1st and 2nd line, their side effects, as well as methods of prevention and elimination of side effects of tuberculosis drugs;</p> <p>classification and main characteristics of drugs, pharmacodynamics and pharmacokinetics, indications and contraindications for the use of pathogenetic drugs for the treatment of tuberculosis, as well as side effects, methods of prevention and elimination of side effects of pathogenetic drugs in the treatment of tuberculosis;</p> <p>General principles of treatment of a patient with tuberculosis,</p> <p>standard anti-tuberculosis chemotherapy regimens and indications for their use;</p> <p>the mechanism of therapeutic action, physiotherapy exercises and physiotherapy, indications and contraindications to their appointment, especially their implementation;</p> <p>clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of emergency conditions in a patient with tuberculosis;</p> <p><b>ID2 GPC-7</b></p> <p>To be able to: analyze the action of medicinal products in terms of the totality of their pharmacological properties and the possibility of their use for therapeutic treatment;</p> <p>to use basic antibacterial and biological drugs in the implementation of etiotropic pathogenetic therapy of tuberculosis;</p> <p>to evaluate possible manifestations of drug overdose and how to eliminate them; to formulate indications for the</p>

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	<p>chosen method of treatment, taking into account etiotropic and pathogenetic methods;</p> <p>substantiate pharmacotherapy in a particular tuberculosis patient with major pathological syndromes and emergencies, determine the routes of administration, regimen and dose of drugs (taking into account body weight, age, concomitant diseases, individual intolerance), evaluate the effectiveness of the treatment; apply various methods of drug administration.</p> <p><b>ID-3 GPC-7</b> Own: methods of analysis of clinical, laboratory and instrumental data to determine the algorithm for managing a patient with tuberculosis, drawing up drug and non-drug treatment schemes.</p>
<p>PC-2. Readiness to collect and analyze patient complaints, data from his anamnesis, examination results, laboratory, instrumental, pathological and anatomical and other studies in order to recognize a condition or establish the presence or absence of a disease</p>	<p><b>ID-1 pc2</b> Know: methods of diagnosis, diagnostic capabilities of methods of direct examination of a patient with tuberculosis; modern methods of clinical, laboratory (clinical and biochemical analysis of blood and urine, examination of sputum on the MBT by the scopic method with staining according to Tsil_Nelson, by flotation, inoculation, PCR, methods for determining the drug sensitivity of MBT), immunological (Mantoux test with 2 TE, with tuberculosis allergen recombinant, Koch test), instrumental examination of tuberculosis patients (including endoscopic, radiological methods, ultrasound diagnostics, computed tomography), histological (biopsies obtained during endoscopic examinations and surgical interventions, in sections)</p> <p><b>ID2-pc2</b> Be able to: determine the patient's status: collect anamnesis, epidemic history, interview the patient and / or his relatives, conduct a physical examination of the patient (examination, palpation, percussion, auscultation); to conduct a primary examination of systems and organs: respiratory, cardiovascular, blood and hematopoietic organs of the digestive, endocrine and urinary organs; outline the volume of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result.</p> <p><b>ID-3 pk2</b> Own: methods of general clinical objective examination (questioning, examination, palpation, percussion,</p>

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	auscultation) in a patient with tuberculosis; interpretation of the results of physical, laboratory, immunological, morphological, instrumental research methods in order to diagnose various forms of tuberculosis
PC-3. Readiness to manage and treat patients with various nosological forms on an outpatient basis and in a day hospital	<p>ID-1pk 3 Know: the criteria for the diagnosis of various forms of respiratory tuberculosis and the most common forms of extrapulmonary tuberculosis; peculiarities of the organization and the volume of work of the outpatient-polyclinic doctor in the anti-tuberculosis service (organization of detection and prevention of tuberculosis, work in the focus of tuberculosis infection; dispensary observation of a patient with tuberculosis), modern diagnostic capabilities of the polyclinic service, methods of emergency measures, indications for planned hospitalization; features of tuberculosis treatment in outpatient and outpatient settings and in a day hospital.</p> <p>ID-2pk3 Be able to: formulate indications for the chosen method of treating a patient with tuberculosis using etiotropic and pathogenetic agents for various clinical forms of tuberculosis, taking into account the phase of the process; to develop an algorithm for the management tactics (dispensary registration group, treatment) of a tuberculosis patient in a polyclinic and a day hospital of an anti-tuberculosis dispensary.</p> <p>ID-3pk3 Own: an algorithm for determining the tactics of managing a patient with tuberculosis in a polyclinic and a day hospital, an algorithm for differential diagnosis of tuberculosis with diseases of non-tuberculosis etiology.</p>

#### 4. Volume of the subject

4.1. Volume of the subject in credit points (total):   4   credit points

4.2. On types of academic workload (in hours): 144


Type of academic work	Number of hours (form of education)		
	Total according to the plan	Including on semesters	
		№ semester	№ semester
1	2	3	4
Work of students with a teacher	72		
Classes:	72		
Lectures	18		

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practical classes and seminars	54		
lab classes (practical lessons)	-		
Self-study work	36		
Concurrent control (number and type: a test, a colloquium, a report)			
Course paper	-		
Types of intermediate attestation - exam	36		
Total number of hours on the subject	144		

**5. The content of the discipline (module.) Distribution of hours by topics and types of academic work: Full-time form of education; (for each form of study: full-time / part-time / part-time, a separate table is filled in)**

Title and sections and topics	Total	Types of Training					The form of current knowledge control
		Auditory lessons			Classes in Interactive form	Independent work	
		Lectures	Practical classes, workshop	Laboratory works, workshops			
<b>Section 1. Epidemiology, etiology and pathogenesis, pathological anatomy and methods for diagnosing tuberculosis</b>							
<b>Total</b>	<b>12</b>	<b>2</b>	<b>6</b>			<b>4</b>	
The history of the development of phthisiology, classification and tuberculosis epidemiology	1	1					Testing, interviewing, problem solving
Etiology, pathogenesis, morphology of tuberculosis. Immunity for tuberculosis. Methods diagnosis of tuberculosis.	1	1					Testing, interviewing, problem solving
Epidemiologists, etiology, pathogenesis, tuberculosis pathology, methods survey.	10		6			4	Testing, interviewing, problem solving
<b>Section 2. Clinical picture of tuberculosis</b>							
<b>Total</b>	<b>84</b>	<b>14</b>	<b>42</b>			<b>28</b>	
Primary period of tuberculosis infection	12	2	6			4	Reading x-ray grams, supervision of patients; Testing, interviewing, solution

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							tasks
Disseminated and miliary pulmonary tuberculosis	12	2	6			4	Reading x-ray grams, supervision of patients; Testing, interviewing, solution tasks
Focal and infiltrative pulmonary tuberculosis. Caseous pneumonia.	12	2	6			4	Reading x-ray grams, supervision of patients; Testing, interviewing, solution tasks
Pulmonary tuberculoma	12	2	6			4	Reading x-ray grams, supervision of patients; Testing, interviewing, decision
Tuberculous pleurisy	12	2	6			4	Reading roentgenograms supervision of patients  Testing, interview problem solving Reading roentgenograms supervision of patients
Destructive tuberculosis lungs. Complications and urgent state when tuberculosis. Destructive tuberculosis	12	2	6			4	Reading roentgenograms supervision of patients ; Testing, interview problem solving Reading

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							roentgenograms supervision of patients
Extrapulmonary forms of tuberculosis	12	2	6			4	Reading of roentgenograms supervision of patients ; Testing, interview problem solving Reading roentgenograms
Tuberculosis combined with other diseases, tuberculosis and motherhood							supervision of patients Testing,
<b>Section 3. Identification prevention and treatment</b>							
<b>Total</b>	<b>12</b>	<b>2</b>	<b>6</b>			<b>4</b>	
Detection of tuberculosis in adults and children, Tuberculosis prevention	6	1	3			2	Testing, interviewing , problem solving
Tuberculosis treatment	6	1	3			2	Testing, interviewing , problem solving
<b>Total</b>	<b>108</b>	<b>18</b>	<b>54</b>			<b>36</b>	
<b>Exam</b>	<b>36</b>					<b>36</b>	
<b>In the whole</b>	<b>144</b>	<b>18</b>	<b>54</b>			<b>72</b>	

If it is necessary to use partially or exclusively distance learning technologies in the educational process, it should be noted that the total number of hours (c.u.) set by the Department of discipline/specialty for each discipline/practice remains unchanged and is implemented in full. In this case, in the corresponding section of the educational program the total number of hours of work with students in accordance with the educational plan is allocated and the number of hours for conducting classes in a remote format using e-learning (online courses, lectures and seminars in videoconference mode, virtual practical classes, laboratory work in the form of virtual analogues, calculation and graphic works, individual tasks in the electronic information and educational environment, etc.) Training and industrial practice for all areas of discipline/specialties of all forms of training can be partially or fully implemented in a remote format.

## 6.COURSE CONTENT

### Section 1. Epidemiology, etiology and pathogenesis, pathological anatomy and



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## methods for diagnosing tuberculosis

**Topic 1.** The history of the development of TB, classification and epidemiology of tuberculosis. The history of the development of TB in the world, in Russia, in the region. Principles of anti-TB work in Russia. Clinical classification of tuberculosis. Classification of tuberculosis according to ICD X revision. The epidemiology of tuberculosis at the present stage. The role of socio-economic and environmental factors. Infection, the incidence of tuberculosis. The prevalence of tuberculosis. Tuberculosis mortality


**Topic 2.** Etiology, pathogenesis, morphology of tuberculosis. Immunity for tuberculosis. Methods for the diagnosis of tuberculosis. The causative agent of tuberculosis and its properties. Drug resistance. Atypical mycobacteria. The pathogenesis of tuberculosis. Sources and entry gates of infection. Pathomorphology of tuberculosis. Tuberculous granuloma. Types of specific tissue reactions in tuberculosis. Non-specific and para-specific inflammation in tuberculosis. Methods for the diagnosis of tuberculosis: clinical, instrumental, radiation, laboratory.

## Section 2. Clinical picture of tuberculosis

**Topic 3.** The primary period of tuberculosis infection. The concept of the primary and secondary periods of tuberculosis infection. An early period of tuberculosis infection. Turn of tuberculin test. Tuberculosis. Primary tuberculosis complex. Tuberculosis of the intrathoracic lymph nodes: infiltrative and tumor forms. Small forms of tuberculosis of the intrathoracic lymph nodes. Clinical forms of primary tuberculosis in adults.

**Topic 4.** Disseminated and miliary tuberculosis of the lungs. The pathogenesis of disseminated and miliary tuberculosis, risk factors. Acute, subacute and chronic disseminated tuberculosis. The clinical picture, course, outcomes, diagnostic criteria, differential diagnosis. Features of the clinical picture of miliary tuberculosis. Diagnosis and differential diagnosis, outcomes.

**Topic 5.** Focal and infiltrative pulmonary tuberculosis. Caseous pneumonia. Pathogenesis and pathological anatomy of focal pulmonary tuberculosis (ALT): soft and fibrous - focal pulmonary tuberculosis. Clinic, diagnostics, outcomes, differential diagnostics EXL. The problem of activity EXT. Koch test. Infiltrative pulmonary tuberculosis (ITL): bronchobubular, round, cloud-like, infiltrates; periscissuritis, lobes. Pathogenesis and pathological anatomy of ITL. Clinic, diagnosis, outcomes, differential diagnosis of ITL.

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Caseous pneumonia. Features of pathogenesis and clinical presentation. Outcomes.

**Topic 6.** Tuberculoma of the lung. Caseoma - homogeneous, conglomerate, layered: pathogenesis, morphology. Filled cavity: pathogenesis, morphology. Infiltrative pneumonic tuberculoma: pathogenesis, morphology. The clinical picture, x-ray semiotics tuberculosis. Differential diagnosis of tuberculosis. Outcomes of various types of tuberculosis, treatment features.


**Topic 7.** Tuberculous pleurisy. Tuberculous pleurisy: pathogenesis, pathological anatomy. Classification of tuberculous pleurisy. The clinical picture and criteria for the diagnosis of tuberculous pleurisy. The role of pleural puncture in the diagnosis of pleurisy. Differential diagnosis of tuberculous pleurisy. Outcomes and treatment features of tuberculous pleurisy.

**Topic 8.** Destructive pulmonary tuberculosis. Complications and emergency conditions for tuberculosis. The concept of destructive pulmonary tuberculosis. Pathogenesis and pathological anatomy of destructive pulmonary tuberculosis. Pathomorphological types of cavities. The clinical picture, course and outcomes of fibro-cavernous pulmonary tuberculosis. The clinical picture, course and outcomes of cirrhotic pulmonary tuberculosis. Differential diagnosis of fibro-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis: LSN, amyloidosis, atelectasis, etc. Emergency conditions for tuberculosis: hemoptysis and pulmonary hemorrhage, spontaneous pneumothorax and first aid for them.

**Topic 9.** Extrapulmonary forms of tuberculosis. Tuberculosis combined with other diseases, tuberculosis and motherhood. The structure of extrapulmonary tuberculosis (VLT) and the problems of its detection. The general concept of the pathogenesis of isolated VLT. Pathological anatomy of VLT. The clinical picture and diagnosis of tuberculosis of bones and joints. Clinic and diagnosis of tuberculosis of the urinary system. Clinic and diagnosis of tuberculosis of female and male genitalia. Clinic and diagnosis of tuberculous meningitis. Clinic and diagnosis of tuberculosis of the abdominal cavity. Clinic and diagnosis of tuberculosis of the skin, eyes, PLU. The main problems of comorbidity in tuberculosis. Tuberculosis and motherhood.

### **Section 3. Detection, treatment and prevention of tuberculosis**

**Topic 10.** Detection of tuberculosis in adults and children. Orders and standards for the organization of the tuberculosis service. Organization of the early detection of tuberculosis in adults: fluorographic examination (frequency in risk groups, decreed groups).

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Organization of the Mantoux Test with 2TE and a recombinant tuberculosis allergen for the early detection of tuberculosis in children. TB Dispensary. Dispensary accounting groups.

**Topic 11.** Treatment of tuberculosis. History, goals, criteria for the effectiveness of treatment. General principles for the treatment of tuberculosis. Chemotherapy: principles, classification of drugs, side effects of drugs; standard chemotherapy regimens. Pathogenetic methods of treating tuberculosis: indications and contraindications to them. Collapsotherapy therapeutic methods for treating tuberculosis: indications and contraindications. Surgical treatments for tuberculosis: radical and palliative surgery for pulmonary tuberculosis. Sanatorium treatment of tuberculosis patients.

**Topic 12.** Prevention of tuberculosis. Specific tuberculosis prophylaxis: BCG vaccination and revaccination. Chemoprophylaxis of tuberculosis (primary and secondary). Prevention of tuberculosis in the foci of tuberculosis infection. Nonspecific tuberculosis prevention.


## 7. TOPICS OF PRACTICAL AND SEMINAR LESSONS

### Section 1. Epidemiology, etiology and pathogenesis, pathological anatomy and methods for diagnosing tuberculosis

**Topic 1. Etiology, pathogenesis and pathomorphology of tuberculosis. Methods of physical, laboratory and instrumental examination of a patient with tuberculosis. Clinical classification of tuberculosis, the formulation of the clinical diagnosis of a patient with tuberculosis.**

#### Questions to the topic

- Specific and para-specific inflammatory tissue reactions in tuberculosis. Tuberculosis granuloma
- The concept of proliferative and alternative types of specific tissue reactions in tuberculosis and their clinical significance
- Indicators of clinical OAC, OAM, biochemical blood analysis for tuberculosis
- Methods for the detection of MBT (bacterioscopic, bacteriological, molecular genetic
- Instrumental and functional research methods
- Immunological diagnosis of tuberculosis. Tuberculin tests - diagnostic, provocative
- Indications and contraindications for the Mantoux test with 2 TE in children
- Indications and contraindications for testing with a recombinant tuberculosis allergen (DIASKINTEST) in children and adolescents
- Grinchar – Karpilovsky test: indications, technique, assessment of results
- Koch test: indications, contraindications, technique, evaluation of results

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- X-ray and other radiation research methods for tuberculosis


## Section 2. Clinical picture of tuberculosis

**Topic 2. Primary period of tuberculosis infection. Pathogenesis of the primary period of tuberculosis. Turn of tuberculin test. Tuberculosis. Tuberculosis of the intrathoracic lymph nodes: infiltrative and tumor forms. Small forms of tuberculosis of the intrathoracic lymph nodes. Primary tuberculosis complex. Features of primary tuberculosis in adults. Atypical forms of primary tuberculosis. Clinic, diagnosis, differential diagnosis. Immunity for tuberculosis. Turn of tuberculin test. The concept of latent tuberculosis infection. The role of the Mantoux test in the diagnosis of primary tuberculosis. Diaskintest as a method of differential diagnosis of infection and post-vaccination allergy. Pathological anatomy of tuberculosis of primary tuberculosis.**

### Questions to the topic:

- Data from a general clinical laboratory study in the primary tuberculosis complex
- The results of the study of sputum on the causative agent of the disease in the primary tuberculosis complex
- The results of immunological diagnostics in the primary tuberculosis complex - Mantoux test with 2 TE and a recombinant tuberculosis allergen (diaskin test)
- X-ray picture of the primary tuberculosis complex
- Bronchoscopic picture in the complicated course of the primary tuberculosis complex
- Data from a general clinical laboratory study for tuberculosis of the intrathoracic lymph nodes
- The results of a study of sputum on the causative agent of tuberculosis in tuberculosis of the intrathoracic lymph nodes
- Results of immunological diagnostics for tuberculosis of the intrathoracic lymph nodes - Mantoux test with 2 TE and a recombinant tuberculosis allergen (diaskin test)
- X-ray picture of tuberculosis of the intrathoracic lymph nodes
- Bronchoscopic picture in complicated course of tuberculosis of the intrathoracic lymph nodes.
- The role of computed tomography in the diagnosis of small forms of tuberculosis of the intrathoracic lymph nodes.

**Topic 3. Disseminated pulmonary tuberculosis. Miliary tuberculosis of the lungs. Sepsis Landusi. The pathogenesis of disseminated and miliary tuberculosis, risk factors. Acute, subacute and chronic disseminated tuberculosis. The clinical picture, course, outcomes, diagnostic criteria, differential diagnosis. Features of the clinical picture of miliary**

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**tuberculosis. Diagnosis and differential diagnosis, outcomes. The most acute tuberculosis sepsis of Landusi: features of pathomorphology, clinic and outcomes.**


**Questions to the topic:**

- Data from a general clinical laboratory study for disseminated and miliary pulmonary tuberculosis
- The results of the study of sputum on the causative agent of the disease in disseminated and miliary pulmonary tuberculosis
- Results of immunological diagnosis of disseminated and miliary pulmonary tuberculosis
- X-ray picture of disseminated and miliary pulmonary tuberculosis
- Changes in the function of external respiration in disseminated and miliary pulmonary tuberculosis
- ECG changes in disseminated and miliary pulmonary tuberculosis

**Topic 4. Focal and infiltrative pulmonary tuberculosis. Caseous pneumonia. Pathogenesis, clinic, diagnostics and differential diagnosis of soft and fibro-focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. X-ray syndrome of dimming in the lung. Types of infiltrates: broncholobular, round, cloudy; perissssuritis, lobes. Pathogenesis, clinic, diagnosis, differential diagnosis. Caseous pneumonia. Features of morphogenesis and clinical presentation, differential diagnosis, complications, outcomes**

**Questions to the topic:**

- Data from a general clinical laboratory study for focal pulmonary tuberculosis
- The results of the study of sputum on the causative agent of the disease in focal pulmonary tuberculosis
- The role of immunological diagnosis (Koch test) in determining the activity of focal pulmonary tuberculosis
- X-ray picture of soft-focal and fibro-focal pulmonary tuberculosis
- Data from a general clinical laboratory study for infiltrative pulmonary tuberculosis
- The results of the study of sputum on the causative agent of the disease in infiltrative pulmonary tuberculosis


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- The role of immunological diagnostics (Grinchar-Karpilovsky test) in determining the degree of immunity in infiltrative pulmonary tuberculosis
- X-ray picture of bronchlobular, round, cloud-like type of infiltrative pulmonary tuberculosis
- Changes in the function of external respiration in various types of tuberculous infiltrates
- ECG changes in various types of tuberculous infiltrates
- Data from a general clinical laboratory study for caseous pneumonia
- The results of the study of sputum on the causative agent of the disease in caseous pneumonia
- The role of immunological diagnosis (Grinchar-Karpilovsky test) in determining the degree of immunity in caseous pneumonia
- X-ray picture of caseous pneumonia
- Changes in the function of external respiration in caseous pneumonia
- ECG changes in caseous pneumonia

**Topic 5. Tuberculoma of the lung. Classification, pathogenesis, clinic, diagnosis and differential diagnosis of tuberculoma. Features of the treatment of infiltrative-pneumonic, pseudotuberculoma and caseoma. Tuberculosis outcomes X-ray syndrome of a round shadow in the lung**

**Questions to the topic:**

- Data from a general clinical laboratory study for pulmonary tuberculosis
- The results of the study of sputum on the causative agent of the disease in pulmonary tuberculosis
- The role of immunological diagnosis (samples with a recombinant tuberculosis allergen) in pulmonary tuberculosis
- Morphological picture of tuberculoma such as caseoma, pneumoniae infiltrative tuberculoma and pulmonary pseudotuberculoma
- Radiological picture of tuberculoma such as caseoma, infiltrative pneumonic tuberculoma and pseudotuberculoma of the lung

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**Topic 6. Tuberculous pleurisy. Tuberculous pleurisy. Classification, pathogenesis, clinical features, diagnosis and differential diagnosis of tuberculous pleurisy. Fluid syndrome in the pleural cavity. Fluid syndrome in the pleural cavity. Puncture of the pleural cavity and the study of pleural fluid**


**Questions to the topic:**

- Data from a general clinical laboratory blood test for tuberculous pleurisy
- Data from a general clinical laboratory and biochemical study of the contents of the pleural cavity in tuberculous pleurisy
- The results of the study of the contents of the pleural cavity on the pathogen diseases with tuberculous pleurisy
- The role of immunological diagnostics (tests with a recombinant tuberculosis allergen) in tuberculous pleurisy
- Morphological picture of endoscopic pleural biopsy in tuberculous pleurisy
- X-ray picture of tuberculous pleurisy
- X-ray picture of osmotic tuberculous pleurisy
- Function of external respiration in tuberculous pleurisy
- ECG changes in tuberculous pleurisy

**Topic 7. Destructive forms of pulmonary tuberculosis. Cavernous, fibro-cavernous pulmonary tuberculosis; factors contributing to their formation, pathogenesis, clinical features, diagnosis and differential diagnosis. X-ray syndrome of the cavity in the lung. Cirrhotic tuberculosis. Outcomes. Features of reference.**

**questions to the topic:**

- Data from a general clinical laboratory study for cavernous, fibro-cavernous and cirrhotic pulmonary tuberculosis
- The results of a study on the causative agent of the disease in cavernous, fibrotic-cavernous and cirrhotic pulmonary tuberculosis
- X-ray picture with cavernous pulmonary tuberculosis
- X-ray picture with fibro-cavernous pulmonary tuberculosis

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- X-ray picture with cirrhotic pulmonary tuberculosis
- Function of external respiration in cavernous, fibro-cavernous and cirrhotic pulmonary tuberculosis
- ECG changes in cavernous, fibro-cavernous and cirrhotic pulmonary tuberculosis
- Morphological picture with cavernous, fibro-cavernous and cirrhotic pulmonary tuberculosis


**Topic 8. Complications and emergency conditions. chronic pulmonary heart, amyloidosis, pulmonary bleeding, spontaneous pneumothorax. Pathogenesis, clinic, diagnosis. First aid treatment**

**questions to the topic:**

- Data from a general clinical laboratory study for amyloidosis of internal organs
- Data from a general clinical laboratory study for pulmonary heart disease
- Data of an X-ray examination of the lungs in pulmonary heart failure
- The results of the study of FVD in pulmonary heart failure
- ECG results for pulmonary heart disease
- Data from a general clinical laboratory study for pulmonary hemorrhage
- Fibrobronchoscopy data for pulmonary hemorrhage
- The results of the study of HFV with pulmonary bleeding
- Results of an ECG study for pulmonary hemorrhage
- Radiological findings for spontaneous pneumothorax
- The results of the study of high pressure for spontaneous pneumothorax
- Results of an ECG study with spontaneous pneumothorax


**Topic 9. Extrapulmonary forms of tuberculosis .. General concept of the pathogenesis of extrapulmonary tuberculosis. Features of pathomorphology. Tuberculosis of the membranes of the brain, urinary system, osteoarticular system, organs of the abdominal cavity (intestines, peritoneum, mesenteric lymph nodes), female and male genitalia, eyes, skin and peripheral lymph nodes. Clinic, diagnosis, differential diagnosis**



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### Questions to the topic:

- Data from a general clinical laboratory study for tuberculosis of extrapulmonary localization
- Data from a general clinical and biochemical study of cerebrospinal fluid in tuberculous meningitis
- The results of a bacteriological study of cerebrospinal fluid on the causative agent of the disease in tuberculous meningitis
- Results of microbiological studies on the causative agent of the disease in female genital tuberculosis
- Radiological findings for female genital tuberculosis
- Results of endoscopic diagnosis of female genital tuberculosis
- Results of microbiological studies on the causative agent of the disease in male genital tuberculosis
- Radiological findings for male genital tuberculosis
- Results of endoscopic diagnosis of male genital tuberculosis
- Results of microbiological studies on the causative agent of the disease in case of urinary tuberculosis
- Data of radiation diagnosis in case of urinary tuberculosis
- Results of endoscopic diagnosis for urinary tuberculosis
- Data of radiation diagnosis in tuberculosis of the osteoarticular system
- Results of microbiological studies on the causative agent of the disease in tuberculosis of the osteoarticular system
- Results of morphological research methods for tuberculosis of the osteoarticular system
- The results of microbiological studies on the causative agent of the disease in tuberculosis of the intestine, mesenteric lymph nodes, peritoneum
- Data of radiation diagnosis for tuberculosis of the intestine, mesenteric lymph nodes, peritoneum


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- Results of endoscopic diagnosis for intestinal tuberculosis, mesenteric lymph nodes, peritoneum
- Results of morphological research methods in the intestine, mesenteric lymph nodes, peritoneum
- Results of microbiological studies on the causative agent of the disease in tuberculosis of peripheral lymph nodes, skin.
- Data of radiation diagnosis for tuberculosis of peripheral lymph nodes.
- Results of fundus examination for choroid tuberculosis
- Results of morphological research methods for tuberculosis of peripheral lymph nodes, skin.

**Topic 10. Tuberculosis in combination with other diseases, tuberculosis and motherhood. Tuberculosis and COPD, tuberculosis and peptic ulcer, tuberculosis and diabetes mellitus, tuberculosis and mental illness, tuberculosis and drug addiction, tuberculosis and HIV infection: features of pathogenesis and pathology, clinical presentation, course, outcomes and treatment. Tuberculosis and motherhood.**

**Questions to the topic:**

- Features of pathogenesis, pathological anatomy of tuberculosis in combination with COPD (chronic non-specific lung diseases).
- Features of the clinical picture, diagnosis, differential diagnosis, outcomes in combination with COPD
- Features of the pathogenesis and pathological anatomy of tuberculosis in combination with UB and YAB duodenal ulcer (peptic ulcer of the stomach and duodenum).
- Features of the clinical picture, diagnosis, differential diagnosis and outcomes in combination with UB and YAB duodenum.
- Features of the pathogenesis and pathological anatomy of tuberculosis in combination with diabetes mellitus (DM)
- Features of the clinical picture, diagnosis, differential diagnosis, outcomes in combination with diabetes
- Features of the pathogenesis and pathological anatomy of tuberculosis in combination with mental illness, substance abuse and drug addiction.

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- Features of the clinical picture, diagnosis, differential diagnosis, outcomes in combination with mental illness, substance abuse and drug addiction
- Features of the pathogenesis and pathological anatomy of tuberculosis in combination with HIV infection
- Features of the clinical picture, diagnosis, differential diagnosis, outcomes in combination with HIV infection


### **Section 3. Detection, treatment and prevention of tuberculosis**

**Topic 11. Detection and prevention of tuberculosis. The work of the general treatment network for the detection and prevention of tuberculosis. Organization of early detection of tuberculosis in adults: fluorographic examination (frequency of examination in risk groups, decreed groups). The organization of the Mantoux Test with 2TE for the early detection of tuberculosis in children. Differential diagnosis of infectious and post-vaccination allergies. DIASKIN test. Detection of tuberculosis by treatment**

#### **Questions to the topic:**

- Clinical observation of tuberculosis patients.
- Organization and conduct of a Mantoux test with 2 TE and a sample with a recombinant tuberculosis allergen in the pediatric area. Differential diagnosis of infectious and post-vaccination allergies
- Organization and conduct of fluorographic examinations of the population. The formation of risk groups for tuberculosis at the therapeutic site
- Specific tuberculosis prophylaxis. BCG vaccination and revaccination: indications, contraindications, technique and timing. Monitoring the development of the vaccination reaction, complications of BCG vaccination and their treatment
- Primary and secondary chemoprophylaxis of tuberculosis: indications, methods
- Sanitary prevention of tuberculosis. Preventive work in the focus of tuberculosis infection
- Analysis of the main epidemiological indicators for tuberculosis: infection, morbidity, morbidity with tuberculosis; tuberculosis mortality


**Topic 12. Treatment of tuberculosis. General principles for the treatment of tuberculosis. Chemotherapy: principles, classification of drugs, side effects of drugs; standard chemotherapy regimens. Pathogenetic methods of treating tuberculosis: indications and contraindications to them. Collapse-therapeutic methods of treating tuberculosis:**

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**indications and contraindications. . Surgical treatments for tuberculosis: radical and palliative surgery for pulmonary tuberculosis. Sanatorium treatment of tuberculosis patients.**

**Questions to the topic:**


- Basic principles for the treatment of tuberculosis patients
- Categories of patients with pulmonary tuberculosis to be treated, according to the order of the Ministry of Health of the Russian Federation No. 951 dated December 29, 2014
- Classification of chemotherapy drugs according to their activity
- Basic anti-TB drugs: mechanism of action, contraindications
- Reserve anti-TB drugs: mechanism of action, contraindications
- Adverse reactions to anti-TB drugs and measures for their prevention and elimination
- Collapsotherapy therapeutic methods for the treatment of pulmonary tuberculosis, indications, contraindications
- Methods of radical surgery for tuberculosis
- Methods of palliative surgery
- Collapse surgical treatment for pulmonary tuberculosis
- Pathogenetic and symptomatic treatment of tuberculosis. Sanatorium treatment of tuberculosis
- Clinical observation of patients with tuberculosis.
- Organization and conduct of a Mantoux test with 2 TE and a protein recombinant allergen test (Diaskin test) in the pediatric area. Differential diagnosis of infectious and post-vaccination allergies
- Organization and conduct of fluorographic examinations of the population. The formation of risk groups for tuberculosis at the therapeutic site
- Specific tuberculosis prophylaxis. BCG vaccination and revaccination:
- indications, contraindications, technique and timing. Monitoring the development of the vaccination reaction, complications of BCG vaccination and their treatment
- Primary and secondary chemoprophylaxis of tuberculosis: indications, methods
- Sanitary prevention of tuberculosis. Preventive work in the focus of tuberculosis infection
- The main epidemic indicators for tuberculosis: infection, incidence, morbidity with tuberculosis; tuberculosis mortality.

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**8. LABORATORY WORKS, PRACTICES** - This type of work is not provided by WP

### 9. QUESTIONS FOR EXAM


Competence Index	Job No.	Formulation of the question
<b>PC2</b>	1	Current state and prospects of the fight against tuberculosis in the Russian Federation. National Concept of Tuberculosis Control.
	2	The causative agent of tuberculosis, its classification. Properties of the office, variability of the office.
	3	Mechanisms of development of drug resistance of mycobacteria. Primary and secondary drug resistance.
	4	Mono, poly - resistance to MBT. Multiple and widespread drug resistance of the office. Clinical significance
	5	Natural mechanisms of resistance to tuberculosis infection.
	6	The role of cellular and humoral immunity in protection against tuberculosis infection.
	7	Productive, exudative and alterative types of inflammatory tissue reactions in tuberculosis
	8	Paraspecific reactions in tuberculosis and their clinical significance.
	9	Pathogenesis of primary tuberculosis infection in children and adolescents. Bend of the tuberculin test.
	10	Pathogenesis of clinical forms of the secondary period of infection.
	11	The general concept of the pathogenesis of extrapulmonary tuberculosis.
	12	Basic principles of building a modern classification of tuberculosis.
<b>PC3</b>	13	The main epidemic indicators for tuberculosis.
	14	Tasks facing dispensaries for the detection and prevention of tuberculosis among the adult population.
	15	Tasks of the dispensary for the detection and prevention of tuberculosis in children and adolescents.
	16	Groups of people with an increased risk of tuberculosis among children and adolescents.
	17	Organization and planning of activities for early and timely detection of tuberculosis patients among the adult population.
	18	Organization and planning of activities for the early detection of tuberculosis in children and adolescents.
	19	Methods of specific and non-specific prevention of tuberculosis.
	20	The focus of tuberculous infection. Types of foci.
	21	Classification of foci of tuberculosis infection according to the degree of epidemic danger.
	22	Primary measures in the focus of tuberculosis infection

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	23	The role of the general network therapist in organizing events in the focus of tuberculosis infection.
	24	Anti-tuberculosis vaccination. Vaccination with BCG and BCG-M vaccines.
	25	The course of the vaccine process is normal and monitoring it.
	26	Complications of the vaccine process and their treatment
	27	Primary and secondary chemoprophylaxis of tuberculosis.
<b>PC2</b>	28	Laboratory methods for the diagnosis of tuberculosis.
	29	Radiation methods for the diagnosis of tuberculosis.
	30	Endoscopic methods for the diagnosis of tuberculosis.
	31	Immunological methods for the diagnosis of tuberculosis.
	32	Immunodiagnosis of tuberculosis. Mantoux test with 2 TE: indications, contraindications, diagnostic possibilities. Test with the drug "Diaskintest": indications, contraindications, diagnostic possibilities ..
	33	Modern molecular genetic methods for the diagnosis of tuberculosis. PCR in the diagnosis of tuberculosis.
	34	Diagnostic value of shifts in peripheral blood and ESR in different forms and phases of the tuberculous process.
	35	Indications, contraindications, technique of Mantoux test with 2 TE. Differential diagnosis of infectious and post-vaccination allergies.
	36	Indications, contraindications, technique, evaluation of the results of the Grinchar-Karpilovsky tuberculin test.
	37	Koch test. Indications. Contraindications, Koch test technique.
	38	Respiratory function research methods.
<b>PC2</b>	39	Pathogenesis, pathological anatomy, clinical signs, diagnosis, course, complications and outcomes of the primary tuberculosis complex in children and adolescents; differential diagnosis
	40	Tumorous and infiltrative tuberculosis of the intrathoracic lymph nodes: pathogenesis, pathomorphology, clinical picture, diagnosis, course, complications and outcomes; differential diagnosis
	41	Small forms of tuberculosis of the intrathoracic lymph nodes. Features of the clinical picture and diagnosis
	42	Pulmonary and typhoid forms of miliary pulmonary tuberculosis. Pathogenesis, pathomorphology, clinical picture, diagnosis, course, complications and outcomes differential diagnosis with disseminations of other etiology
	43	Subacute and chronic disseminated (hematogenous) pulmonary tuberculosis, pathogenesis, pathological anatomy, clinical and radiological signs.
	44	Focal pulmonary tuberculosis. Pathogenesis, pathomorphology, clinical picture, diagnosis, course and outcomes. The role of the Koch test in determining the activity of focal tuberculosis.

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	45	Pathogenesis, pathomorphology, clinical picture, diagnosis, complications and outcomes of various types of tuberculous infiltrates.
	46	Differential diagnosis of infiltrative pulmonary tuberculosis.
	47	Pathogenesis, pathomorphology, clinical picture, course, complications and outcomes of caseous pneumonia. The role of the Grinchar-Karpilovsky test in determining the specific reactivity of the organism.
	48	Features of the pathogenesis, histological picture, clinic, course and outcomes of various and clinical picture of various pathomorphological types of lung tuberculosis. Differential diagnosis of tuberculoma.
	49	Pathogenesis, pathological anatomy, clinical picture, course, outcomes of tuberculous pleurisy. Differential diagnostics.
	50	Pathogenesis, pathomorphology, clinical picture, course, diagnosis, complications and outcomes of cavernous pulmonary tuberculosis
	51	Pathogenesis, pathological anatomy, clinical picture, course, diagnosis, complications and outcomes of fibrous-cavernous pulmonary tuberculosis
	52	Pathogenesis, pathomorphology, clinical picture, diagnosis, complications and outcomes of cirrhotic pulmonary tuberculosis. Differential diagnosis of cirrhotic pulmonary tuberculosis
	53	Pathogenesis, pathological anatomy, clinical manifestations of the main forms of meningitis (basilar, spinal and meningo-encephalitis); diagnosis, differential diagnosis, course, complications and outcomes.
	54	Pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, course and outcomes of tuberculosis of the intestine, peritoneum and mesenteric lymph nodes.
	55	Pathogenesis, pathological anatomy, clinical picture, diagnosis, course, complications and outcomes of tuberculosis of bones and joints; differential diagnosis.
	56	Tuberculosis of the kidneys and urinary tract: pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, complications and outcomes.
	57	Tuberculosis of the genitals in men and women: pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, course, complications and outcomes.
	58	Tuberculosis of peripheral lymph nodes: pathogenesis, pathological anatomy, clinical picture, diagnosis, course, complications and outcomes.
	59	Features of the clinical picture and course of tuberculosis in patients with diabetes mellitus.
	60	Features of the clinical picture and course of tuberculosis in patients with gastric ulcer and duodenal ulcer.
	61	Features of the clinical picture and course of pulmonary tuberculosis, occurring against the background of COPD
	62	Features of the clinical picture and course of tuberculosis in pregnant

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		women.
	63	Features of the course of tuberculosis in patients with alcoholism and HIV infection.
	64	Pulmonary hemorrhage: pathogenesis, clinical picture, diagnosis, differential diagnosis, emergency care and treatment.
<b>GPC-7</b>	65	Pharmacokinetics, mechanism of action of the main anti-tuberculosis drugs.
	66	Classification of anti-tuberculosis drugs by the degree of activity
	67	Side effects of anti-tuberculosis drugs
	68	Measures to eliminate and prevent side effects of anti-tuberculosis drugs
	69	Pathogenetic drugs in the treatment of tuberculosis: groups, mechanism of action
	70	Basic principles of treating a patient with tuberculosis.
	71	The main methods of pathogenetic therapy, indications and contraindications for their use
	72	Indications, contraindications for artificial pneumothorax and pneumoperitoneum.
	73	Modern methods of surgical treatment of patients with pulmonary tuberculosis: indications, contraindications.
	74	Sanatorium treatment of patients with tuberculosis. Indications, contraindications.
Total	74	

Criteria and grading scales:

- assessment criteria - the correct answers to the questions posed; assessment indicator - percentage of correct answers to questions;


- assessment scale (assessment) - 4 levels of competency assessment are identified:

high - more than 80% of correct answers; sufficient - from 60 to 80% of the correct answers; threshold - from 50 to 60% of correct answers; critical - less than 50% of correct answers.

### Grading scale

Rating	Level of competence development	Grading criteria
Excellent	High level	The student has shown comprehensive, systematized, deep knowledge of the discipline program, the ability to confidently apply them and practice in solving specific problems, to freely use reference literature, to draw reasonable conclusions from the results of calculations or experiments.
Good	Sufficient level	The student has shown strong knowledge of the main sections of the discipline program, the ability to




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		independently solve specific practical problems, but allows uncritical inaccuracies in the answer and problem solving.
Satisfactory	Threshold level	The student has shown fragmentary, scattered character of knowledge not exact enough formulations of the basic concepts breaking a logic sequence in the statement of a program material, thus owning knowledge of the basic sections of discipline necessary for the further training, ability to receive with the help of the teacher the correct decision of a concrete practical problem from among stipulated RAP, acquaintance to the recommended reference literature.
Unsatisfactory	Critical level	At the answer of the student essential gaps in knowledge of the most part of the basic content of discipline were revealed, rough mistakes in formulation of the basic concepts, decisions of typical practical problems are made (inability with the help of the teacher to receive with the help of the correct decision of a concrete practical problem from among stipulated RAP).

## 10. SELF-STUDY WORK OF STUDENTS

Title and sections and topics	Type of independent work	Volume in hours	form of control
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Section 1. Epidemiology, etiology and pathogenesis, pathological anatomy and methods for diagnosing tuberculosis	Study material, problem solving, preparation for testing	4	Testing, verification of problem solving
Section 2. Clinical picture of tuberculosis	Study material, problem solving, preparation for testing	28	Testing, verification of problem solving
Section 3. Identification, tuberculosis prevention and treatment	Study material, problem solving, preparation for testing	4	Testing, verification of problem solving
Exam	Exam preparation	36	
Total		72	

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## 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE Фтизиатрия

### a) List of recommended literature

#### a) Core reading:

1. Koshechkin, V. A. Phthisiatry : textbook. / Koshechkin V. A. - Москва : ГЭОТАР-Медиа, 2019. - 256 с. - ISBN 978-5-9704-5302-5. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970453025>.
2. Yushchuk, N. D. Infectious diseases : textbook / Yushchuk N. D. , Vengerov Yu. Ya. - Москва : ГЭОТАР-Медиа, 2020. - 464 с. - ISBN 978-5-9704-5504-3. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970455043.html>

#### b) Supplementary reading:

2. Tarasova L. G. Orofacial tuberculosis: clinic, diagnosis, differential diagnosis / L. G. Tarasova. - Томск : Издательство СибГМУ, 2020. - 102 с. - ISBN 9785985911596. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/orofacial-tuberculosis-clinic-diagnosis-differential-diagnosis-10782954/>
3. Budritsky A. M. Methodics instructions for practical training in Phthisiopulmonology : for the 4-th courses students of medical faculty / A. M. Budritsky, N. V. Vasilenko, N. S. Pravada. - Витебск : ВГМУ, 2020. - 104 с. - ISBN 9789854669700. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/methodics-instructions-for-practical-training-in-phthisiopulmonology-12145454/>


#### c) Educational and methodical literature

Savonenkova L. N.

Methodical guidelines for the organization of independent work of students on the discipline «Phthisiatry» for specialty 31.05.01 «General medicine» / L. N. Savonenkova; Ulyanovsk State University, Institute of Medicine, Ecology and Physical culture. - Ulyanovsk : UISU, 2022. - Неопубликованный ресурс; На англ. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/11528>. - Режим доступа: ЭБС УлГУ. - Текст : электронный.

AGREED:

Main Librarian / D R Stadolnikova [Signature] / 22.04.2022  
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#### d) Professed data base, directory and search system

##### *Профессиональные базы данных, информационно-справочные системы*

###### **1. Электронно-библиотечные системы:**

1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». - Саратов, [2022]. – URL: <http://www.iprbookshop.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство ЮРАЙТ. – Москва, [2022]. - URL: <https://urait.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.3. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг. – Москва, [2022]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.4. Большая медицинская библиотека : электронно-библиотечная система : сайт / ООО Букап. – Томск, [2022]. – URL: <https://www.books-up.ru/ru/library/>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.5. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС Лань. – Санкт-Петербург, [2022]. – URL: <https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.6. ЭБС Znanium.com : электронно-библиотечная система : сайт / ООО Знаниум. - Москва, [2022]. - URL: <http://znanium.com> . – Режим доступа : для зарегистрир. пользователей. - Текст : электронный.

1.7. Clinical Collection : научно-информационная база данных EBSCO // EBSCOhost : [портал]. – URL: <http://web.b.ebscohost.com/ehost/search/advanced?vid=1&sid=9f57a3e1-1191-414b-8763-e97828f9f7e1%40sessionmgr102> . – Режим доступа : для авториз. пользователей. – Текст : электронный.

1.8. База данных «Русский как иностранный» : электронно-образовательный ресурс для иностранных студентов : сайт / ООО Компания «Ай Пи Ар Медиа». – Саратов, [2022]. – URL: <https://ros-edu.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

**2. КонсультантПлюс [Электронный ресурс]: справочная правовая система. /ООО «Консультант Плюс» - Электрон. дан. - Москва : КонсультантПлюс, [2022].**

###### **3. Базы данных периодических изданий:**


3.1. База данных периодических изданий EastView : электронные журналы / ООО ИВИС. - Москва, [2022]. – URL: <https://dlib.eastview.com/browse/udb/12>. – Режим доступа : для авториз. пользователей. – Текст : электронный.

3.2. eLIBRARY.RU: научная электронная библиотека : сайт / ООО Научная Электронная Библиотека. – Москва, [2022]. – URL: <http://elibrary.ru>. – Режим доступа : для авториз. пользователей. – Текст : электронный

3.3. Электронная библиотека «Издательского дома «Гребенников» (Grebinnikon) : электронная библиотека / ООО ИД Гребенников. – Москва, [2022]. – URL: <https://id2.action-media.ru/Personal/Products>. – Режим доступа : для авториз. пользователей. – Текст : электронный.

**4. Федеральная государственная информационная система «Национальная электронная библиотека» : электронная библиотека : сайт / ФГБУ РГБ. – Москва, [2022]. – URL: <https://нэб.рф>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.**

**5. SMART Imagebase : научно-информационная база данных EBSCO // EBSCOhost : [портал]. – URL: <https://ebSCO.smartimagebase.com/?TOKEN=EBSCO->**

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**6. Федеральные информационно-образовательные порталы:**

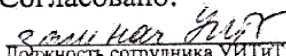
6.1. Единое окно доступа к образовательным ресурсам : федеральный портал . – URL: <http://window.edu.ru/> . – Текст : электронный.

6.2. Российское образование : федеральный портал / учредитель ФГАУ «ФИЦТО». – URL: <http://www.edu.ru>. – Текст : электронный.

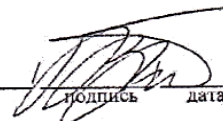
**7. Образовательные ресурсы УлГУ:**

7.1. Электронная библиотечная система УлГУ : модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». – URL: <http://lib.ulsu.ru/MegaPro/Web>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.


Согласовано:

  
Должность сотрудника УИГИТ

  
ФИО

  
подпись

19.04.22  
дата

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## 12. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES

Training students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health of such students. Education of students with disabilities can be organized in conjunction with other students, and separately. If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:

- for persons with visual impairment: in printed form in large print; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a tiflosurdoperevodchika; individual tasks and consultations.
- for persons with hearing impairment: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the assistance of a sign language interpreter; individual tasks and consultations.
- for persons with musculoskeletal disorders: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations."

Developer \_\_\_\_\_




\_\_\_\_\_ Savonenkova L.N. \_\_\_\_\_



signature


position

full name

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**LIST OF CHANGES 1 of  
Educational plan of discipline ”\_\_ Phthisiology \_\_\_\_\_”  
Speciality 31.05.01. «General medicine»**

<b>№</b>	<b>Content of the change or a link to the attached text of the</b>	<b>Full name of the head of the Department developing the discipline</b>	<b>Signature</b>	<b>Date</b>
1	Introduction of changes to item A) Recommended Literature item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 2	Ruzov V.I		28.04.2023
2	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 1	Ruzov V.I		28.04.2023

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## 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

### Фтизиатрия

#### a) List of recommended literature

##### a) Core reading:

1. Koshechkin, V. A. Phthisiatry : textbook / V. A. Koshechkin. - Moscow : GEOTAR-Media, 2023. - 256 с. - ISBN 978-5-9704-7329-0. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970473290.html>
2. Yushchuk, N. D. Infectious diseases : textbook / Yushchuk N. D. , Vengerov Yu. Ya. - Москва : ГЭОТАР-Медиа, 2020. - 464 с. - ISBN 978-5-9704-5504-3. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970455043.html>

##### b) Supplementary reading:

3. Tarasova L. G. Orofacial tuberculosis: clinic, diagnosis, differential diagnosis / L. G. Tarasova. - Томск : Издательство СибГМУ, 2020. - 102 с. - ISBN 9785985911596. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/orofacial-tuberculosis-clinic-diagnosis-differential-diagnosis-10782954/>

2 Phthisiatry : учебник. - Москва : ГЭОТАР-Медиа, 2017. - 256 с. - URL: <https://www.rosmedlib.ru/book/ISBN9785970439739.html>

##### c) Educational and methodical literature

Savonenkova L. N.

Methodical guidelines for the organization of independent work of students on the discipline «Phthisiatry» for specialty 31.05.01 «General medicine» / L. N. Savonenkova; Ulyanovsk State University, Institute of Medicine, Ecology and Physical culture. - Ulyanovsk : UISU, 2022. -

Неопубликованный ресурс; На англ. яз. - URL:

<http://lib.ulsu.ru/MegaPro/Download/MObject/11528>. - Режим доступа: ЭБС УлГУ. - Текст : электронный.

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F-Educational plan of the discipline		


*Профессиональные базы данных, информационно-справочные системы*

**1. Электронно-библиотечные системы:**



- 1.1. Цифровой образовательный ресурс IPRsmart:электронно-библиотечная система : сайт / ООО Компания«Ай Пи Ар Медиа». - Саратов, [2023]. –URL:<http://www.iprbookshop.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.
- 1.2. Образовательная платформа ЮРАЙТ: образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство«ЮРАЙТ». – Москва, [2023]. - URL: <https://urait.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.
- 1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента»):электронно-библиотечная система : сайт / ООО «Политехресурс». – Москва, [2023]. –URL:<https://www.studentlibrary.ru/cgi-bin/mb4x>. – Режим доступа: для зарегистрир. пользователей. –Текст : электронный.
- 1.4. Консультант врача. Электронная медицинская библиотека :база данных : сайт / ООО «Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг». – Москва, [2023]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.
- 1.5. Большая медицинская библиотека: электронно-библиотечная система: сайт / ООО «Букап». – Томск, [2023]. – URL: <https://www.books-up.ru/ru/library/>. – Режим доступа: для зарегистрир. пользователей. – Текст: электронный.
- 1.6. ЭБС Лань:электронно-библиотечная система: сайт/ ООО ЭБС «Лань». –Санкт-Петербург, [2023]. –URL:<https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. –Текст : электронный.
- 1.7. ЭБС Znanium.com:электронно-библиотечная система : сайт / ООО «Знаниум». - Москва, [2023]. - URL: <http://znanium.com> . – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.
- 2. КонсультантПлюс** [Электронный ресурс]: справочная правовая система. /ООО «Консультант Плюс» - Электрон. дан. - Москва :КонсультантПлюс, [2023].
- 3.Базы данных периодических изданий:**
- 3.1. eLIBRARY.RU: научная электронная библиотека : сайт / ООО «Научная Электронная Библиотека». – Москва, [2023]. – URL: <http://elibrary.ru>. – Режим доступа : для авториз. пользователей. – Текст : электронный
- 3.2. Электронная библиотека «Издательского дома «Гребенников» (Grebinnikon) : электроннаябиблиотека / ООО ИД «Гребенников». – Москва, [2023]. – URL: <https://id2.action-media.ru/Personal/Products>. – Режим доступа : для авториз. пользователей. – Текст : электронный.
- 4. Федеральная государственная информационная система «Национальная электронная библиотека»:**электронная библиотека: сайт / ФГБУ РГБ. – Москва, [2023]. – URL:<https://нэб.рф>. – Режим доступа: для пользователей научной библиотеки. –Текст : электронный.
- 5. Российское образование:** федеральный портал / учредитель ФГАУ «ФИЦТО». – URL: <http://www.edu.ru>. – Текст : электронный.
- 6. Электронная библиотечная система УлГУ :** модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». – URL:<http://lib.ulsu.ru/MegaPro/Web>. – Режим доступа :для пользователей научной библиотеки. – Текст : электронный.


Согласовано:

Ишениер Ведущий ; Щуренко Юль ; И.О.И. 120.04.2023  
 Должность сотрудника УИТиГ ФИО Подпись Дата

Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the discipline		

**LIST OF CHANGES 2 of  
Educational plan of discipline ”\_\_ Phthisiology \_\_\_\_\_”  
Speciality 31.05.01. «General medicine»**

<b>№</b>	<b>Content of the change or a link to the attached text of the</b>	<b>Full name of the head of the Department developing the discipline</b>	<b>Signature</b>	<b>Date</b>
1	Introduction of changes to item A) Recommended Literature item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 2	Ruzov V.I		16.04.24
2	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 1	Ruzov V.I		16.04.24

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## 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

### Фтизиатрия

#### a) List of recommended literature

##### a) Core reading:

1. Koshechkin, V. A. Phthisiatry : textbook / V. A. Koshechkin. - Moscow : GEOTAR-Media, 2023. - 256 с. - ISBN 978-5-9704-7329-0. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970473290.html>

2. Borodulina, E. A. Diagnosis and prevention of tuberculosis in general medical practice : tutorial guide / E. A. Borodulina, B. E. Borodulin. - Москва : ГЭОТАР-Медиа, 2024. - 104 с. - ISBN 978-5-9704-8190-5, DOI: 10.33029/9704-8190-5-DPT-2024-1-104. - Электронная версия доступна на сайте ЭБС "Консультант студента": [сайт]. URL: <https://www.studentlibrary.ru/book/ISBN9785970481905.html>

##### b) Supplementary reading:

1. Tarasova L. G. Orofacial tuberculosis: clinic, diagnosis, differential diagnosis / L. G. Tarasova. - Томск : Издательство СибГМУ, 2020. - 102 с. - ISBN 9785985911596. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/orofacial-tuberculosis-clinic-diagnosis-differential-diagnosis-10782954/>

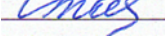
2. Yushchuk, N. D. Infectious diseases : textbook / Yushchuk N. D. , Vengerov Yu. Ya. - Москва : ГЭОТАР-Медиа, 2020. - 464 с. - ISBN 978-5-9704-5504-3. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970455043.html>

##### c) Educational and methodical literature


Savonenkova L. N.

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Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the discipline		

*Профессиональные базы данных, информационно-справочные системы*

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1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство «ЮРАЙТ». – Москва, [2024]. - URL: <https://urait.ru> . – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента») : электронно-библиотечная система : сайт / ООО «Политехресурс». – Москва, [2024]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.4. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО «Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг». – Москва, [2024]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

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1.6. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС «Лань». – Санкт-Петербург, [2024]. – URL: <https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

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**3. eLIBRARY.RU**: научная электронная библиотека : сайт / ООО «Научная Электронная Библиотека». – Москва, [2024]. – URL: <http://elibrary.ru>. – Режим доступа : для авториз. пользователей. – Текст : электронный

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**5. Российское образование** : федеральный портал / учредитель ФГАУ «ФИЦТО». – URL: <http://www.edu.ru>. – Текст : электронный.

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Инженер ведущий



Щуренко Ю.В.

2024