



Form of Syllabus

Department of "Therapy-2"

Discipline working program (Syllabus)

Educational program "General medicine"

1. General information about the discipline			
1.1	Discipline code: Ftiz 5201	1.6	Academic year:2021-2022 г.
1.2	Name of the discipline:"Phthisiology»	1.7	Grade: V
1.3	Prerequisites: Normal anatomy, normal physiology, pathological physiology, pathological anatomy, propaedeutics of internal diseases, visual diagnostics, therapy	1.8	Semester: IX
1.4	Postrequisites: Bases of General Practice	1.9	Number of credits (ECTS): 4
1.5	Subj: Phthisiology	1.10	Component:
2. Description of the discipline (maximum 150 words)			
<p>Phthisiology- is a branch of clinical medicine that studies the causes, patterns of the spread and development of tuberculosis, methods of its prevention, detection, diagnosis and treatment. Tuberculosis remains a major cause of morbidity and mortality in many countries and is a major public health problem worldwide. Phthisiology studies the issues of early detection of tuberculosis, the algorithm of examination of children with suspected tuberculosis in accordance with the Legal act, order No. 214 / 2020, according to clinical protocols of diagnosis and treatment and from the standpoint of evidence-based medicine, the main clinical forms of tuberculosis in children and adolescents, general principles and modern methods of treatment, recovery criteria, issues of specific prevention of tuberculosis.</p>			
3. Summative assessment form			
3.1	Test	3.5	Preparation of tests, situational tasks on the topic
3.2	Writing	3.6	Presentation ppt
3.3	Orally	3.7	Project
3.4	OSPE/OSE or Practical Skills reception	3.8	Other

4. Objectives of the discipline						
Formation of knowledge, skills and practical skills necessary for the early diagnosis, treatment and prevention of tuberculosis in primary health care settings.						
5. Final learning outcomes (Results of study in discipline)						
RO 1.	Demonstrates knowledge of the Policy Documents on the fight against tuberculosis in the Republic of Kazakhstan, the main issues on the organization of early detection of tuberculosis in children and adolescents, the algorithm of examination in case of suspected tuberculosis, innovative methods for diagnosing tuberculosis.					
RO 2.	Selects the treatment regimen depending on the clinical form and drug sensitivity.					
RO 3.	Analyzes the value of diagnostic procedures and the effectiveness of treatment .					
RO 4.	Uses diagnostic and treatment protocols to select a particular diagnostic and drug.					
5.1	Results of study in discipline	Learning outcomes of the training program, which are related to the learning outcomes of the discipline				
	RO 1	R 1 Demonstrates knowledge and understanding of medical sciences for diagnosis, treatment, and dynamic follow-up in tuberculosis.				
	RO 2	R 6 Effectively communicates in medical practice, taking into account the peculiarities of the psychology of tuberculosis patients, observing the principles of medical ethics and deontology				
	RO 3	R 5 In practice effectively uses the existing " protocols for the diagnosis and treatment of tuberculosis in the Republic of Kazakhstan»				
	RO 4	R 7 Effectively uses information and information technologies in the field of medicine.				
6. Detailed information about the discipline						
6.1	Venue (building, auditorium):Regional Center of Phthisiopulmonology in Shymkent					
6.2	Number of hours	Lectures	Practical	lab	SIW	SIWG
		10ч.	30ч	-	80	-
7. Information about teachers						
№	Full name	Degrees and position	Email address	Research interests, etc.	Progress	



1.	Kasaeva L. T.	Head of the Department, Candidate of Medical Sciences	L.Kasaeva@mail.ru	Study of the epidemiology of tuberculosis in South Kazakhstan region and development of additional organizational forms of combating it at the present stage	Doctor of the highest category
2.	Sergazina A. O.	Candidate of Medical Sciences, Acting Associate Professor	A.O.Sergazina@mail.ru	Study of the epidemiology of tuberculosis in South Kazakhstan region and development of additional organizational forms of combating it at the present stage	Doctor of the highest category
3.	Serkhozhaeva T. Kh.	assistant	talshinserh@mail.ru	Study of the epidemiology of tuberculosis in South Kazakhstan region and development of additional organizational forms of combating it at the present stage	Doctor of the highest category
4.	Nuranova N. T.	assistant	N.nuranova@mail.ru	Study of the epidemiology of tuberculosis in children and adolescents in South Kazakhstan region	Doctor of the highest category

5	Erzhanov O.Sh.	ассистент	Eorinbai@ mail.ru	Tuberculosis among children and adolescents	Doctor of the highest category
6	Erzhanova B.O.	Part-time employee (eng.)	erzhanova_bota@ bk.ru	-	-

8. Thematic plan

Week/ Day	Topic name	summary	Res of study in discip line	Num ber of hours	Forms/met hods/ technologie s of training	Evaluatio n forms/ methods
1	Lecture.	+Link (required to view)		10		
	1. Integrated tuberculosis control. Epidemiology of tuberculosis in the Republic of Kazakhstan. Etiology, pathogenesis and pathomorphology of tuberculosis. Methods for detecting tuberculosis. Diagnostic algorithm.	National Tuberculosis Control Program. Integrated control model in Kazakhstan. The main epidemiological indicators of tuberculosis in the Republic of Kazakhstan. Etiology, pathogenesis and pathomorphology of tuberculosis. The causative agent of tuberculosis and its properties. Pathogenicity of different types of MBT. Polymorphism. Sources, ways and methods of infection with tuberculosis. Latent microbism. Formation of tuberculous granuloma. The main stages of the development of the tuberculosis process. Primary and secondary period of tuberculosis infection. Methods for detecting tuberculosis. Diagnostic algorithm for examining a patient with suspected tuberculosis.	R1 R3	2	Overview Thematic (in terms of DOT - webinar)	Blitz survey on the topic
	2. Allergy and anti-tuberculosis	The concept of immunity. The mechanism of development of	R1	1	problem Thematic	Blitz survey on

<p>immunity. Immunoprophyl axis of tuberculosis. Primary tuberculosis. Pathogenesis, pathomorphology. Clinical forms.</p>	<p>immune reactions. Types of immunity. Immunocompetent cells, their functions and interactions, methods of immune response. Cellular immunity. Humoral immunity. Primary tuberculosis in adults. Features of clinical manifestations, diagnosis, treatment, outcomes; observation of the dispensary. Differential diagnosis of primary tuberculosis. Primary tuberculosis complex. Clinical signs, diagnosis, course, and treatment. Tuberculosis of the intra-thoracic lymph nodes. Clinical and radiological diagnostics of lymph node lesions. Infiltrative and tumorous bronchoadenitis, course and treatment.</p>	<p>R3</p>		<p>(in terms of DOT - webinar)</p>	<p>the topic</p>
<p>3. Disseminated pulmonary tuberculosis. Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis</p>	<p>Features of disseminated tuberculosis in early and late dissemination. Clinical forms of disseminated tuberculosis. Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis, treatment.</p>	<p>R1 R3</p>	<p>1</p>	<p>Overview Thematic (in terms of DOT - webinar)</p>	<p>Blitz survey on the topic</p>
<p>4. Tuberculosis meningitis. Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis</p>	<p>Tuberculosis of the meninges and central nervous system. Pathogenesis, pathomorphology, clinic, diagnosis. Basilar meningitis. Meningoencephalitis. Features of the course of tuberculous meningitis. Differential diagnosis. Treatment. Complications.</p>	<p>R1 R3</p>	<p>1</p>	<p>Overview Thematic (in terms of DOT - webinar)</p>	<p>Blitz survey on the topic</p>
<p>5. Pathogenesis of secondary</p>	<p>Secondary forms of tuberculosis. Pathogenesis. Focal tuberculosis.</p>	<p>R1</p>	<p>1</p>	<p>Overview Thematic</p>	<p>Blitz survey on</p>

<p>tuberculosis. Focal pulmonary tuberculosis. Infiltrative tuberculosis. Tuberculosis of the lungs. Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis</p>	<p>Pathogenesis, pathomorphology, clinic, diagnosis. Infiltrative tuberculosis. Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis. Tuberculosis of the lungs. Pathogenesis, pathomorphology, clinic, diagnosis, differential diagnosis.</p>	<p>R3</p>		<p>(in terms of DOT - webinar)</p>	<p>the topic</p>
<p>6. Cavernous, fibrous - cavernous, cirrhotic pulmonary tuberculosis. Pathogenesis, pathomorphology, clinical diagnosis, differential diagnosis</p>	<p>Cavernous pulmonary tuberculosis. Causes of formation, clinical manifestations, course. Diagnosis and treatment, outcomes, follow-up of the dispensary. Differential diagnosis of cavernous pulmonary tuberculosis. Fibrocavernous pulmonary tuberculosis. Causes of formation, clinical manifestations, course. Diagnosis and treatment, outcomes, follow-up of the dispensary. Differential diagnosis of fibrocavernous pulmonary tuberculosis. Cirrhotic pulmonary tuberculosis. Causes of formation, clinical manifestations, course. Diagnosis and treatment, outcomes, follow-up of the dispensary. Differential diagnosis of cirrhotic pulmonary tuberculosis.</p>	<p>R1 R3</p>	<p>1</p>	<p>problem Thematic (in terms of DOT - webinar)</p>	<p>Blitz survey on the topic</p>
<p>7. Tuberculosis pleurisy, pathogenesis, pathomorphology, clinic, diagnosis and differential diagnosis.</p>	<p>Tuberculous pleurisy. Acute, subacute, and chronic tuberculous lesions of the pleura. Development and clinical variants of pleurisy. Diagnosis and treatment, outcomes.</p>	<p>R1 R3</p>	<p>1</p>	<p>problem Thematic (in terms of DOT - webinar)</p>	<p>Blitz survey on the topic</p>

<p>8. Principles of tuberculosis treatment in modern conditions. Anti-tuberculosis drugs. Drug-resistant tuberculosis. Monitoring of treatment.</p>	<p>Principles of treatment, standards. Schemes. Categories of patients. New anti-tuberculosis drugs. Short-term treatment of tuberculosis with MDR-TB. Treatment of tuberculosis with MDR and XDR. Monitoring of treatment. Treatment outcomes.</p>	<p>R1 R2 R3</p>	<p>1</p>	<p>Overview Thematic (in terms of DOT - webinar)</p>	<p>Blitz survey on the topic</p>
<p>9. Organization of anti-tuberculosis measures. Dispensary observation of patients with tuberculosis. Prevention of tuberculosis. Anti-epidemic work in foci of tuberculosis infection</p>	<p>Organization of anti-tuberculosis work. Dispensary observation of patients with tuberculosis. Characteristics of the observed contingents. Prevention of tuberculosis. BCG vaccination. Chemoprophylaxis of tuberculosis. Sanitary prevention. Measures in the focus of tuberculosis infection.</p>	<p>R1 R3</p>	<p>1</p>	<p>Overview Thematic (in terms of DOT - webinar)</p>	<p>Blitz survey on the topic</p>
<p>Practical lesson. Topic</p>			<p>30</p>		
<p>1. Introduction to the specialty. Sanitary and epidemic regime in anti-tuberculosis institutions. Fundamentals of deontology in phthisiology. Features of clinical examination of</p>	<p>Phthisiopulmonology center, its structure and organization of work. Sanitary and epidemic regime of the center. Fundamentals of deontology in phthisiology. Clinical examination of patients with pulmonary tuberculosis. Mandatory diagnostic minimum, additional and optional research methods. Methods of microbiological, cytological, histological and functional diagnostics of</p>	<p>R1 R2 R3 R4</p>	<p>3</p>	<p>Working with the Legal acts, Order No. 214 / 2020. and medical literature.</p>	<p>100</p>

patients with pulmonary tuberculosis.	tuberculosis. Etiological and pathogenetic assessment of the results of the diagnostic examination of the supervised patient.				
2. Primary tuberculosis complex. Tuberculosis of the intra-thoracic lymph nodes. Tuberculin diagnostics.	Primary tuberculosis complex. Tuberculosis of the intra-thoracic lymph nodes. Organization of tuberculin diagnostics. Methods and techniques of setting tuberculin samples. Interpretation of the results.	R1 R2 R3 R4	3	Oral survey, work in small groups, in-depth study of individual issues, topics of practical classes, discussion.	Oral survey, DOT - group work in online / offline communication mode in the chat of the "Task" module of AIS Platonus or on other information platforms)
3. Clinical classification of tuberculosis. Classification of cases of the disease. Methods of radiological diagnosis of pulmonary tuberculosis. The main radiological syndromes of lung diseases.	Basic principles of classification of tuberculosis. International classifications of tuberculosis. Classification sections: primary and secondary period of tuberculosis infection, clinical forms of tuberculosis, localization, prevalence and phase of the tuberculosis process. Complications. Residual changes after tuberculosis. Building a diagnosis.	R1 R2 R3 R4	4	Preparation of thematic presentations, abstracts, viewing of video content: Infiltrative tuberculosis	DOT - group work in online / offline communication mode in the chat module "Task" AIS Platonus or on other information platforms) Presentati

					on, preparatio n of test tasks	
	4. Disseminated pulmonary tuberculosis. Tuberculosis meningitis.	Disseminated pulmonary tuberculosis. Features of disseminated pulmonary tuberculosis in early and late dissemination. Examination of patients, diagnosis, treatment. Tuberculosis meningitis. Examination of patients, diagnosis, treatment.	R1 R2 R3 R4	3	Preparation of thematic presentations, abstracts, viewing of video content: Technique of spinal puncture, mastering the material and further development of practical skills in the Center of Practical Skills	DOT - group work in online / offline communication mode in the chat of the "Task" module AIS Platonus or on other information platforms)
	5. Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Tuberculosis of the lungs.	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Tuberculosis of the lungs. Examination of patients, diagnosis. Clinical and radiological forms. Diagnosis and differential diagnosis, treatment with the position of evidence-based medicine. Outcomes.	R1 R2 R3 R4	3	Preparation of thematic presentations, abstracts, viewing of video content: Infiltrative tuberculosis . Diagnosis and treatment, assimilation of the material and further development of	DOT - group work in online / offline communication mode in the chat of the "Task" module AIS Platonus or on other information platforms)

					practical skills in the Center of Practical Skills	
	6. Destructive forms of pulmonary tuberculosis.	Cavernous pulmonary tuberculosis. Fibrocavernous pulmonary tuberculosis. Cirrhotic pulmonary tuberculosis. Causes of formation, clinical manifestations, course. Diagnosis and treatment, outcomes, follow-up of the dispensary. Differential diagnosis.	R1 R2 R3 R4	4	Preparation of thematic presentations using Internet resources, monographs, scientific publications, textbooks	DOT - group work in online / offline communication mode in the chat of the "Task" module AIS Platonus or on other information platforms)
	7. Tuberculous pleurisy and extrapulmonary tuberculosis.	Tuberculous pleurisy. Causes of formation, clinical manifestations, course. Diagnosis and treatment, outcomes, follow-up of the dispensary. Differential diagnosis. Extrapulmonary tuberculosis. A general idea of the main localizations of extrapulmonary tuberculosis. Extrapulmonary localization of tuberculosis. Frequency and ratio of individual extrapulmonary localizations.	R1 R2 R3 R4	3	Preparation of thematic presentations, abstracts, viewing of video content: Tuberculosis pleurisy, assimilation of the material and further development of practical skills in the Center of Practical Skills	DOT - group work in online / offline communication mode in the chat of the "Task" module AIS Platonus or on other information platforms)

<p>8. Treatment of tuberculosis. New anti-tuberculosis drugs.</p>	<p>Treatment of tuberculosis. Indications for outpatient treatment. Types of outpatient treatment. Outpatient treatment as a stage of the main course of antibacterial therapy. Methods of monitoring and evaluating effectiveness.</p>	<p>R1 R2 R3 R4</p>	<p>3</p>	<p>Preparation of thematic presentations, abstracts, viewing of video content: Spontaneous pneumothorax, mastering of the material and further development of practical skills in the Center of Practical Skills</p>	<p>DOT - group work in online / offline communication mode in the chat of the "Task" module AIS Platonus or on other information platforms)</p>
<p>9. Prevention of tuberculosis. Dispensary observation.</p>	<p>Anti-tuberculosis vaccination. Specific prevention of tuberculosis. Organization of specific prevention of tuberculosis. BCG vaccination. Indications, contraindications, methods of conducting, complications and their treatment. Chemoprophylaxis. Methodology, contingents, performance assessment. Sanitary prevention. Accounting and isolation of bacterial separators, disinfection, sanitary and educational work.</p>	<p>R1 R2 R3 R4</p>	<p>4</p>	<p>Working with directive documents, Legal acts, Order No. 214 / 2020. and medical literature.</p>	<p>DOT - group work in online / offline communication mode in the chat of the "Task" module AIS Platonus or on other information platforms)</p>
<p>SIWG. Consultation on the</p>			<p>80</p>		

	implementation of the SIW1 The task of the SIW					
1	Tuberculosis of the lungs in combination with other diseases	Tuberculosis of the lungs in combination with other diseases (diabetes mellitus, gastric ulcer, duodenal ulcer, pregnancy, postpartum period).	R1 R2 R3 R4	3/8	Preparation of reports on the topic, using Internet resources, monographs, scientific publications, textbooks	Presentati on, preparatio n of test items
2	Preparation of reports on the topic, using Internet resources, monographs, scientific publications, textbooks	Tuberculosis of the lungs and Chronic non-specific lung diseases . Clinic and treatment. Cure of tuberculosis. Examination of persons with post-tuberculosis changes in the lungs. Criteria for cure.	R1 R2 R3 R4	3/7	Preparation of thematic presentations, abstracts, viewing of video content: Infiltrative tuberculosis . Diagnosis and treatment, assimilation of the material and further developmen t of practical skills in the Center of Practical Skills	Presentati on, preparatio n of test items, glossary
3	Дифференциальная диагностика диссеминированных поражений легких.	Рентгеносемиотикадиссеминированных поражений в легких. Диагностика и дифференциальная диагностика.	R1 R2 R3 R4	2/7	Preparation of reports on the topic, using Internet resources, monographs, scientific	Presentati on, preparatio n of test items, glossary

					publications , textbooks	
4	Differential diagnosis of rounded formations in the lungs.	Radiosemiotics of rounded formations in the lungs. Diagnostics and differential diagnostics.	R1 R2 R3 R4	3/7	Clinical analysis of a thematic patient	Presentati on, preparatio n of test items, glossary
5	Differential diagnosis of cavities in the lungs. Midterm control-1	Radiosemiotics of cavities in the lungs. Diagnostics and differential diagnostics.	R1 R2 R3 R4	2/7 1/0	Preparation of reports on the topic, using Internet resources. Solving situational problems and test questions	Presentati on, preparatio n of test items, glossary
6	Radio semiotics of extrapulmonary tuberculosis.	Radiological manifestations of extrapulmonary tuberculosis (tuberculous pleurisy, osteoarticular tuberculosis, urogenital system and mesenteric lymph nodes). KPDL of the Ministry OF HEALTH OF the SR RK – 2015. Extrapulmonary tuberculosis.	R1 R2 R3 R4	2/7	Preparation of thematic presentations and patient presentations using Internet resources, monographs , scientific publications , textbooks	Presentati on, preparatio n of test items, glossary
7	Emergency first aid for pulmonary hemorrhage and spontaneous pneumothorax.	Emergency medical care for pulmonary hemorrhage and spontaneous pneumothorax.	R1 R2 R3 R4	3/7	spontaneous	Presentati on, preparatio n of test items, glossary
8	Amyloidosis of internal organs,	Amyloidosis of internal organs, diagnosis, clinic, Respiratory	R1	3/7	Preparation of reports	Presentati on,

	diagnosis, clinic, Respiratory failure, chronic pulmonary heart. Diagnosis, clinic treatment.	failure, chronic pulmonary heart. Diagnosis, clinic treatment.	R2 R3 R4		on the topic, using Internet resources.	preparation of test items, glossary
9	Anti-tuberculosis drugs. Midterm-2	Classification of anti-tuberculosis drugs. New and repurposed drugs. Pharmacological properties of drugs. Side effects.	R1 R2 R3 R4	2/7 0/1	Preparation of reports on the topic, using Internet resources. Solving situational problems and test questions	Solving situational tasks and test questions
	Preparation and implementation of intermediate certification			15		
9. Teaching and learning methods						
9.1	Lectures	Lectures are held at SKMA in the lecture hall. Thematic lectures in the form of a presentation. In the conditions of DOT, an online webinar is held on the information platforms Zoom, Webex and video lectures on the YouTube channel UKMA.				
9.2	Practical exercises	On the basis of the OCF, supervision of patients. Participation in the reception of patients, filling out documentation, oral questioning, testing, solving situational problems, working in small groups, discussions, presentations, working with medical literature, in-depth study of individual issues of topics of practical lessons, feedback. Individual work, work in small groups, team-oriented learning - TBL method. In the conditions of DOT, performing the assigned task in the online / offline mode of communication in the chat of the module "Task" AIS Platonus.				
9.3	SIW	<ul style="list-style-type: none"> * Analysis of statistical data on phthisiology. Preparation of tests, situational tasks on the subject. Preparation of presentations, 				

		<p>reports, work in the department:</p> <ul style="list-style-type: none"> • * participation in curation of patients, in nosocomial and • pathology conferences, work in the emergency department and intensive care units, participation in consultations, together with doctors, consultations of serious patients outside of school hours; • * performing sanitary and educational work to the extent required by the doctor; • * * participation in the Student scientific community of the department, presentations at scientific conferences; • * participation in scientific and practical conferences, symposia, etc. 	
9.4	Midterm	2 midterm controls provided Testing, oral questioning. In online DOT conditions, testing on the Quizizz platform and oral survey using the information platforms Zoom, Webex, Skype, etc.	
10. Evaluation criteria			
10.1	Control form	Assessment	Assessment criteria
1	Oral survey	<p>Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)</p>	It is placed if the student did not make any mistakes or inaccuracies while answering. He is guided in theories, concepts and directions in the studied discipline and gives them a critical assessment, uses the scientific achievements of other disciplines.
		<p>Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	It is posed if the student during the answer did not make gross mistakes in the answer, made minor inaccuracies or fundamental errors corrected by the students themselves, was able to systematize the program material with the help of the teacher.
		<p>Satisfactory in line with the ratings:C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)</p>	It is posed in the event that during the answer the student made inaccuracies and unprincipled mistakes, limited himself only to the educational literature indicated by the teacher, experienced great difficulties in systematizing the material.
		<p>Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)</p>	It is posed if the student made fundamental mistakes during the answer, did not work through the basic literature on the topic of the lesson. does not know how to use the scientific terminology of the discipline, answers with gross stylistic and logical errors.

2	Решение ситуационных задач	Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)	He actively participated in the work, showed original thinking, showed deep knowledge of the material, used scientific achievements of other disciplines in the discussion.
		Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	He actively participated in the work, showed knowledge of the material, made minor inaccuracies or fundamental mistakes, corrected by the student himself.
		Satisfactory in line with the ratings:C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	During his work, he was passive, made inaccuracies and unprincipled mistakes, experienced great difficulties in systematizing the material.
		Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)	I did not take part in the work, answering the teacher's questions made fundamental mistakes and inaccuracies, did not use scientific terminology when answering.
3	Тестирование	Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)	90-100% correct answers.
		Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	75-89% correct answers
		Satisfactory in line with the ratings:C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	50-74% correct answers
		Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)	Less than 50% correct answers.
4	Подготовка и защита реферата	Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)	The abstract is executed accurately and submitted on time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. There are diagrams, tables and figures corresponding to the topic of the abstract. When defending an abstract, the text

			does not read, but tells. Confidently and accurately answers all the questions asked.
		Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The abstract is executed accurately and submitted on time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. There are diagrams, tables and figures corresponding to the topic of the abstract. When defending an abstract, the text does not read, but tells. When answering questions, he makes minor mistakes.
		Satisfactory in line with the ratings:C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	The abstract is executed accurately and submitted on time, written independently on at least 10 pages of typewritten text, using at least 5 literary sources. When defending the abstract, the text is read. Uncertainly answers questions, makes fundamental mistakes.
		Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)	The abstract was executed inaccurately and was not submitted on time, written independently on less than 10 pages of typewritten text, using less than 5 literary sources. When defending the abstract, the text is read. When answering questions, he makes gross mistakes, does not navigate the material.
5	Презентация темы	Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)	The presentation was made independently, on time, with a volume of at least 20 slides. Used at least 5 literary sources. The slides are informative and concise. When defending, the author demonstrates in-depth knowledge of the topic. Avoids mistakes when answering questions during discussion
		Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The presentation was made independently, on time, with a volume of at least 20 slides. Used at least 5 literary sources. The slides are informative and concise. When defending, the author demonstrates good knowledge of the topic. He makes minor mistakes when answering questions that he corrects himself.
		Satisfactory in line with the ratings:C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)	The presentation was made independently, on time, with a volume of at least 20 slides. Used at least 5 literary sources. The slides are not meaningful. When defending, the author makes fundamental mistakes when answering questions.

		<p>Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)</p>	<p>The presentation was not delivered on time, the volume is less than 20 slides. Used less than 5 literary sources. The slides are not meaningful. When defending, the author makes gross mistakes in answering questions. Doesn't know how to use his own material.</p>
6	Подготовка тестовых заданий	<p>Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)</p>	<p>Test assignments contain at least 10 questions. Completed on time. The substantive basis of the test, a clear statement of the question. Uniform and adequate answer options. There is a response algorithm. Correct answers are marked correctly.</p>
		<p>Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>Test assignments contain at least 10 questions. Completed on time. The substantive basis of the test, a clear statement of the question. Not the same answer options. There is a response algorithm. Correct answers are marked correctly.</p>
		<p>Satisfactory in line with the ratings:C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)</p>	<p>Test assignments contain at least 10 questions. Completed on time. Unsubstantiated basis of the test, unclear formulation of the question. Not the same answer options. There is a response algorithm. Not all correct answers are marked correctly.</p>
		<p>Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)</p>	<p>Test items contain less than 10 questions. Unsubstantiated basis of the test, unclear formulation of the question. Not the same answer options. There is no response algorithm. More than 50% of correct answers are marked incorrectly.</p>
7	Составление глоссария	<p>Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)</p>	<p>The glossary is made in full volume of the dictionary, formatted, correctly reflects the main terms and concepts. There is a comparative interpretation of the terms. Completed on time. The student confidently and accurately answers all the questions asked.</p>
		<p>Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>The glossary is made in full volume of the dictionary, formatted, correctly reflects the main terms and concepts. There is a comparative interpretation of the terms. Completed on time. The student, when answering questions, makes minor mistakes.</p>
		<p>Satisfactory in line with the ratings:C (2,0; 65-69%);</p>	<p>The glossary is made in full volume of the dictionary, formatted, correctly reflects the main terms and concepts. Completed on time.</p>

		<p>C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)</p>	<p>When defending the student, hesitantly answers questions, makes fundamental mistakes.</p>
		<p>Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)</p>	<p>The glossary was not completed in full, inaccurately and not submitted on time. When answering questions, the student makes gross mistakes, does not orientate himself in the material.</p>
8	TBL	<p>Perfectly matches the ratings: A (4,0; 95-100%) A- (3,67; 90-94%)</p>	<p>It is placed if the student scored 90-100 points, which include the following assessment results:</p> <ul style="list-style-type: none"> - Individual testing (IRAT) - 40% - Group Testing (GRAT) - 30% - Appeal - 5% - Task - 30% - Additional points -5% <p>Testing is assessed according to the "testing" evaluation criteria. The problem is scored according to the Situational Problem Solving (SBL) scoring criteria. In the event of an appeal, points (5%) may be added to the group test score. At the instructor's discretion, additional points (5%) can be added for teamwork.</p>
		<p>Corresponds well to ratings: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)</p>	<p>It is placed if the student scored 70-89 points, which include the following assessment results:</p> <ul style="list-style-type: none"> - Individual testing (IRAT) - 40% - Group Testing (GRAT) - 30% - Appeal - 5% - Task - 30% - Additional points -5% <p>* Testing is assessed according to the "testing" evaluation criteria. The problem is scored according to the Situational Problem Solving (SBL) scoring criteria. In the event of an appeal, points (5%) may be added to the group test score. At the instructor's discretion, additional points can be added for teamwork (5%).</p>
		<p>Satisfactory in line with the ratings:C</p>	<p>It is placed if the student scored 50-69 points,</p>



		<p>(2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0; 50-54%)</p>	<p>which include the following assessment results:</p> <ul style="list-style-type: none"> - Individual testing (IRAT) - 40% - Group Testing (GRAT) - 30% - Appeal - 5% - Task - 30% - Additional points -5% <p>* Testing is assessed according to the "testing" evaluation criteria. The problem is scored according to the Situational Problem Solving (SBL) scoring criteria. In the event of an appeal, points (5%) may be added to the group test score. At the instructor's discretion, additional points (5%) can be added for teamwork.</p>
		<p>Unsatisfactory in accordance with the ratings:FX (0,5; 25-49%) F (0; 0-24%)</p>	<p>It is placed if the student scored 0-49 points, which include the following assessment results:</p> <ul style="list-style-type: none"> - Individual testing (IRAT) - 40% - Group Testing (GRAT) - 30% - Appeal - 5% - Task - 30% - Additional points -5% <p>* Testing is assessed according to the "testing" evaluation criteria. The problem is scored according to the Situational Problem Solving (SBL) scoring criteria. In the event of an appeal, points (5%) may be added to the group test score. At the instructor's discretion, additional points (5%) can be added for teamwork.</p>
<p>Electronic resources, including, but not limited to: databases, animation simulators, professional blogs, websites, other electronic reference materials (for example: video, audio,</p>			

digests)	
Laboratory physical resources	
Special programs	
Journals (electronic journals)	
Literature:	<p><i>Основная:</i></p> <ol style="list-style-type: none"> 1. Фтизиатрия [Электронный ресурс] : оқулық / М. И. Перельман , И. В. Богадельникова. - 4-бас. өңд. және толық. - Электрон. текстовые дан. (1,42Мб). - М. : ГЭОТАР - Медиа, 2014. - 448 бет. эл. опт. диск 2. Фтизиатрия : оқулық / Перельман М. И. , Богадельникова И. В. - Москва : ГЭОТАР-Медиа, 2014. - 448 с. Перельман, М. И. /ЭБС/ http://www.studmedlib.ru/. 3. Кошечкин, В. А. Фтизиатрия : учебник / В. А. Кошечкин. - Москва : ГЭОТАР-Медиа, 2018. - 304 с. : ил. - 304 с. Кошечкин, В. А. /ЭБС/ http://www.studmedlib.ru/ 4. Фтизиатрия : учебник / М. И. Перельман, И. В. Богадельникова. - 4-е изд. , перераб. и доп. - Москва : ГЭОТАР-Медиа, 2015. - 448 с. Перельман, М. И. /ЭБС/ http://www.studmedlib.ru/ 5. Фтизиатрия : учебник / В. Ю. Мишин и др. - 2-е изд. , перераб. и доп. - Москва : ГЭОТАР-Медиа, 2016. - 520 с. Мишин, В. Ю. /ЭБС/ http://www.studmedlib.ru/ <p><i>Дополнительная:</i></p> <ol style="list-style-type: none"> 6. Өкпе туберкулезінің ажырату диагностикасы. Оқу құралы. 2019. Жайшева К.Т./ЦБС Акнурпресс/ https://aknurpress.kz/login 7. Ересектер мен балаларда туберкулездің дифференциалды диагностикасы мен емі. Оқу құралы. 2016. Бекембаева Г.С./ЦБС Акнурпресс/ https://aknurpress.kz/login 8. Дифференциальная диагностика и лечение туберкулеза у взрослых и детей. Учебное пособие. 2016. Бекембаева Г.С./ЦБС Акнурпресс/ https://aknurpress.kz/login 9. Проблемы туберкулеза. Случай врожденного туберкулеза [Текст] / Л. Т. Касаева, Х. Х. Исмайлова // ОҚМА хабаршысы = Вестник ЮКМА. - 2019. - №3. - С. 49-5 Касаева, Л. Т. /Вестник ЮКМА/https://lib.ukma.kz/ru/%d0%b2%d0%b5%d1%81%d1%82%d0%bd%d0%b8%d0%ba-%d1%8e%d0%b6%d0%bd%d10%be 10. Өкпе туберкулезді науқастардың қанындағы супероксиддисмутазаның белсенділігін ацетидеу түріне байналысты химиотерапияның және миятамырының фитопрепараты -рувимииннің әсерінен өзгеру зертте/ Н. Ж. Орманов , Д. Акимбаева // Вестник ЮКМА. - 2019. - Т.4, №3(87). - С. 37-39.

Орманов , Н. Ж. /Вестник
ЮКМА/<https://lib.ukma.kz/ru/%d0%b2%d0%b5%d1%81%d1%82%d0%bd%d0%b8%d0%ba-%d1%8e%d0%b6%d0%bd%d0%be->

Электронный ресурс:

1. УМКД дисциплины размещен на образовательном портале ukma.kz
2. Фтизиатрия [Электронный ресурс] : оқулық / М. И. Перельман И. В. Богадельникова. - 4-бас. өнд. және толық. - Электрон. текстовые дан. (1,42Мб). - М. : ГЭОТАР - Медиа, 2014. - 448 бет. эл. опт. диск

Интернет ресурс:

1. Өкпе туберкулезінің ажырату диагностикасы. Оқу құралы. 2019. Жайшева К.Т./ЦБС Акнурпресс/ <https://aknurpress.kz/login>
2. Ересектер мен балаларда туберкулездің дифференциалды диагностикасы мен емі. Оқу құралы. 2016. Бекембаева Г.С./ЦБС Акнурпресс/ <https://aknurpress.kz/login>

Дифференциальная диагностика и лечение туберкулеза у взрослых и детей. Учебное пособие. 2016. Бекембаева Г.С./ЦБС Акнурпресс/ <https://aknurpress.kz/login>

12. Discipline Policy

Student requirements, attendance, behavior, grading policies, penalties, incentive measures, etc.

General requirements:

1. *In the classroom, be in special clothing (dressing gown, cap).*
2. *Mandatory attendance at lectures, SRO according to schedules.*
3. *Do not be late, do not miss lectures and classes. In case of illness, provide a certificate and a work sheet indicating the deadline, which is valid for 30 days from the date it was received at the dean's office.*
4. *Missed classes for no valid reason are not fulfilled. Students who have missed classes for no good reason in the electronic journal next to the mark "n" are given a score of "0" and penalty points are deducted:*
 - a penalty point for missing 1 lecture is 1.0 point from the assessments of midterm control;*
5. *Attendance at SRO classes is mandatory. In the absence of students at the SRO, a mark "n" is made in the educational and electronic journal.*

6. Each student must complete all forms of SRO assignments and hand over according to the schedule.
7. For each practical lesson and SRO, all students must prepare in a timely manner and clearly and take an active part in the discussion of the topic.
8. All types of students' written work (abstract, essay, test assignments, etc.) are checked for plagiarism.
9. Be responsible for the sanitary condition of your workplace and personal hygiene.
10. Eating in classrooms is strictly prohibited.
11. Comply with the internal regulations of the academy and ethics of conduct.
12. Be tolerant, open and kind to fellow students and teachers.
13. Carefully treats the property of the department.
14. In terms of distance learning, the main information platform is the automated information system Platonus (hereinafter - AIS Platonus). The main monitoring of the educational process is carried out in this system. Students can complete tasks only in AIS Platonus. Additionally, it is possible to use online classes using electronic platforms Zoom, Webex, WhatsApp, etc.
15. When conducting an online session in the format of distance learning, attendance of students is taken into account on the basis of video broadcast from the account of each of the students. In the absence of constant visual contact with the student by means of the platform used, the teacher records the absence of the lesson for the student for an unjustified reason.
16. When conducting an online session in the format of distance learning, the student is obliged to observe visual and speech etiquette, namely, to comply with the requirements for a neat appearance, not to take actions that may cause distraction or disruption of the course of classes.

Students must complete assignments on a daily basis according to the schedule of lectures, practical classes and SRO, follow the deadlines for the delivery of assignments (in the conditions of DOT).

Penalties: not provided

Final Grade Appeal Rules

The rules for appeal of the final grade are carried out in accordance with the "Rules for planning and organizing the educational process in internship" approved by the Scientist (method) by the SKSPA Council

13.	Academic policy based on the moral and ethical values of the Academy
	<p>Clause 4 Code of honor of the student</p> <p>SCORING POLICY</p> <ol style="list-style-type: none"> 1. The lesson uses several forms of knowledge control. The journal is given an average mark. 2. A student who does not score a passing score (50%) in one of the types of control (current



control, midterm control No. 1 and / or No. 2) is not allowed to take the exam in the discipline.

3. The final rating of admission to the exam in the discipline must be at least 50 points (60%), which is calculated automatically based on the average score of the current control (40%) + the average score of midterm controls (20%).

4. Interim certification - carried out in two stages: the reception of practical skills by the method of SPE (objectively structured practical examination) and testing.


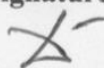
5. In the conditions of DOT, intermediate certification of students is carried out online: receiving practical skills online is carried out on the Zoom, Webex platform; online proctoring technologies are used for testing - a system of identity verification and confirmation of the results of passing online exams.

14. Approval and revision

Date of approval on line	Protocol № ____	Kasaeva L. T.	Signature
Date of statement of education	Protocol № ____	Dosybaeva G.N	Signature
Revision date	Protocol № ____	Dosybaeva G.N	Signature

2. A student who does not score a passing score (50%) in one of the types of control (current control, midterm control No. 1 and / or No. 2) is not allowed to take the exam in the discipline.
3. The final rating of admission to the exam in the discipline must be at least 50 points (60%), which is calculated automatically based on the average score of the current control (40%) + the average score of midterm controls (20%).
4. Interim certification - carried out in two stages: the reception of practical skills by the method of SPE (objectively structured practical examination) and testing.
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14. Approval and revision

Date of approval on line	Protocol № <u>11</u> 20.05.2021	Kasaeva L. T.	Signature 
Date of statement of education	Protocol № ____	Dosybaeva G.N	Signature 
Revision date	Protocol № ____	Dosybaeva G.N	Signature 