SYLLABUS PHTISIATRY

1.	General information about the discipline	ı						
1.1	Faculty/School:	1.6	Credits (ECTS): 4					
	Medicine and Healthcare		120 hours, out of which 80 contact hours (practical training)					
	General Practice department							
	•							
1.2	Educational program (EP):	1.7	Prerequisites: Internal diseases, Fundamentals of Pediatrics					
			Postrequisites: Residency Edited by					
	6В10103 ЖАЛПЫ МЕДИЦИНА		Timothy D. McHugh					
	6В10103 ОБЩАЯ МЕДИЦИНА		Timothy B. Merragn					
	6B10103 GENERAL MEDICINE							
	ODIVIOS GENERAL MEDICINE							
1.3	A cancer and year of accreditation of the ED	1.8	SIW/SDM/SDD (atv):					
1.3	Agency and year of accreditation of the EP	1.0	SIW/SPM/SRD (qty): 20 hours					
	TA AD 2021		20 nours					
	IAAR 2021	4.0						
1.4	Name of discipline: Phthisiatry	1.9	SRSP/SRMP/SRDP (number):					
			20 hours					
1.5	Discipline ID: Fti5307	1.10	Required - yes					
	Discipline code:							
2.	Description of the discipline							
3	Purpose of the discipline							
mast	*	al form	ns of tuberculosis, including those with multiple and broad drug resistance,					
			e professional communication, interpretation of clinical symptoms and					
	romes, data from laboratory and instrumental research methods and the							
Sylic	formes, data from taboratory and instrumental research methods and the	аррпса	non of busic medical diagnostic and preventive measures					
4.	Learning outcomes (LO) by discipline (3-5)							
	LO disciplines	LO according to the educational program,						
	•	with which the LO is associated by discipline						
	(LO No. from the EP passport)							
	(25 Tio. Hom the El pusspore)							

3	 to identify and interpret clinical symptoms and syndromes, data of laboratory and instrumental methods of research of patients with various forms of pulmonary and extrapulmonary tuberculosis in their typical manifestation and course and in the age aspect; 	Pro fici enc y lev el Pro fici enc y lev el 4	1. Collect information from patients and other sources related to the diagnosis, treatment and prevention of common and emergency conditions, including the performance of diagnostic procedures. 2. Identify and interpret the clinical symptoms and syndromes, the data of laboratory and instrumental methods of research of patients with the most common diseases in their typical manifestation and course in the age aspect; interpret, analyze, evaluate, and prioritize relevant data for developing a plan for diagnosing and managing a disease, including initiating appropriate interventions.
4	 apply knowledge of the principles of providing medical care to infectious patients, the principles and methods of preventing infectious diseases according to regulations on infectious diseases (orders of the Ministry of Healthcare and Social Development, Ordinances, clinical protocols); 	Pro fici enc y lev el 4	3. Integrate clinical skills and knowledge to provide individualized approach in the treatment of a specific patient, and the strengthening of health in accordance with its needs; make professional decisions based on the analysis of the rationality of diagnosis and applying the principles of evidence-based and personalized medicine.
5	 demonstrate communication skills when working with children and their parents (legal representatives), teamwork skills, organization and management of the diagnostic and therapeutic process; 	Pro fici enc y lev el 4	4. Apply knowledge of the basic principles of human behavior for effective communication and therapeutic and diagnostic process in compliance with the principles of ethics and deontology; apply knowledge of the psychology of the patient, taking into account cultural characteristics and race; demonstrate skills in teamwork, organization and management of the diagnostic and therapeutic process; effectively build dynamic relationships between doctor and patient, which occur before, during and after medical treatment; effectively communicate medical information verbally and in writing to provide safe and effective care for patients; work effectively in an interprofessional / multidisciplinary team with other health care professionals;
6		Pro fici	5. To provide medical care for the most common diseases in patients of all age groups, in urgent and life-threatening conditions;

		enc	
		У	
		lev	
		el 4	
	- know the structure and mode of the infectious diseases	Pro	6. To apply knowledge of the rights, duties and ways of protecting the rights
	hospital, the rules for hospitalization of infectious patients, the	fici	of the physician and the patient, including the child as a patient, in their
	structure of the infectious service;	enc	professional activities; apply medical knowledge, clinical skills and
	strature of the interiors service,	y	professional attitude to the patient regardless of his age, culture, faith, traditions,
		lev	nationality, lifestyle.
		el 4	nationality, inestyle.
		Pro	
			8. Analyze and maintain the necessary documentation and organization of
		fici	
		enc	documents in health care organizations; the use of modern information and
		У	digital technology, and health information systems for professional applications
		lev	
		el 4	
	_	Pro	
		fici	9. Apply knowledge of the principles and methods of formation a healthy human
		enc	and family life, population health; apply knowledge of a set factors that
		y	determine health and disease for the purpose of prevention
		lev	
		el 4	
7	- demonstrate commitment to professional values, such as	Pro	10. Demonstrate commitment to the highest standards of professional
	altruism, compassion, empathy, responsibility, honesty and	fici	responsibility and honesty; observe ethical principles in all professional
	respect for the principles of confidentiality;	enc	interactions with patients, families, colleagues and society as a whole,
	respect for the principles of confidentiality,		regardless of ethnic characteristics, culture, gender, economic status or sexual
		y low	orientation;
		lev el 4	onenanon,
0	1		11 D
8	demonstrate abilities and needs for continuous professional	Pro	11. Demonstrate the need for continuing professional education and the
	training and improvement of their knowledge and skills of	fici	improvement of their knowledge and skills throughout their professional
	professional activity.	enc	activities
		y	
		lev	
		el 4	

9				12. Demonstrate skills in scientific research, the pursuit of new knowledge and transfer knowledge to others			
	en		vi di ibi	or mis wreage to smers			
	у						
	ley						
	el	4					
5.	Summative assessment methods (mark (yes – no) / specify your ow	vn):					
5.1	MCQ testing for understanding and application		5.5	Scientific project SSRW (student's scientific research work)			
5.2	Practical skills – Miniclinical exam (MiniCex)		5.6	360 score - behavior and professionalism			
5.3	3. SIW- creative task		5.7	Midterm control:			
				Stage 1 - MCQ testing for understanding and application			
				Stage 2 – passing practical skills (miniclinical exam (MiniCex)			
5.4	Medical history		5.8	Exam:			
				Stage 1 - Testing on MCQ for understanding and application			
				Stage 2 - OSCE with Standart Patient			

6.	Detailed info	ormation about	the discipline					
6.1	Academic ye	ear:	6.3	Timetable (сабақ күні, уақыт):				
	2024-2025			From 8.00 to 14.00				
6.2	Semester: 6.4			Place				
8 semester (ec				(educational building, office, platform and link to the «NATIONAL SCIENTIFIC CENTER OF PHTHISIOPULMONOLOG OF KAZAKHSTAN , City Clinical Hospital №1, City Clinical Hospital №2	GY»MINIST			
7.	Discipline le	ader						
Seni	or lecturer	Maulenova	General	Madi.mm@list.ru				
		Madina	Practice	+77766327264				
8.	The content	Bolatkyzy of the discipline	department «NATIONAL SCIENTIFIC CENTER OF PHTHISIOPUL MONOLOGY» MINISTRY OF HEALTH OF THE REPUBLIC OF KAZAKHSTA N					
	Name of the		•		Quantit	Conducting form		
		P			y of	_		
					hours			
1.	. Epidemiology of tuberculosis and its features in the world and Kazakhstan. Infection control is an					TBL		
	1	mponent of the "E			Work with patients, out of			
	Sources and	ways of transmiss	sion of infection.	Tuberculosis with multiple and broad drug resistance		which 50% is patient		
	(MDR/XDR-					management		
2.	Methods of detection and diagnosis of tubercu			losis in children, adolescents and adults. Tuberculosis	8	TBL		
	infection (LT	BI).				Work with patients, out of		
						which 50% is patient		
					management			

3.	Tuberculosis prevention is specific (BCG vaccination and revaccination). Adverse reactions of the	8	CBL
].	BCG vaccine. Non-specific prevention of tuberculosis.		Work with patients, out of
	bed vaccine. Non-specific prevention of tuberculosis.		<u> </u>
			Ī
		0	management
4.	Classification of tuberculosis, classification of cases of the disease. Primary forms of tuberculosis.	8	CBL
	Primary tuberculosis complex (clinic, diagnosis, treatment, outcomes). Tuberculosis of the intra-		Work with patients, out of
	thoracic lymph nodes (clinic, diagnosis, treatment, outcomes).		which 50% is patient
			management
5.	Disseminated pulmonary tuberculosis (acute, subacute, chronic). Principles of treatment of	8	CBL
	tuberculosis patients, including MDR/XDR-TB. Classification of anti-tuberculosis drugs.		Work with patients, out of
			which 50% is patient
			management
6.	Tuberculosis meningitis/ meningoencephalitis - clinic, diagnosis, treatment	8	CBL
			Work with patients, out of
			which 50% is patient
			management
7.	Secondary forms of tuberculosis. Focal, infiltrative pulmonary tuberculosis, caseous pneumonia,	8	CBL
	tuberculoma, cavernous, fibrous-cavernous - clinic, diagnosis, treatment.		Work with patients, out of
			which 50% is patient
			management
8.	Extrapulmonary forms of tuberculosis. Tuberculous pleurisy, tuberculosis of bones and joints,	8	CBL
0.	tuberculosis of peripheral and mesenteric lymph nodes (clinic, diagnosis, treatment). Exam.		Work with patients, out of
	tuocieulosis of peripheral and mesenterio lymph hodes (emile, diagnosis, deadhent). Exam.		which 50% is patient
			management
9.	Tuberculosis of the lungs in combination with other diseases (HIV infection and AIDS, diabetes	8	CBL
٦.	mellitus, COPD, drug addiction, alcoholism). Tuberculosis in pregnant women and in the postpartum	O	Work with patients, out of
			± ·
	period.		1
1.0		0	management
10.	Basic principles and methods of treatment of tuberculosis patients, including those with MDR/XDR-	8	CBL
	TB in accordance with international standards and clinical protocols. Criteria for the cure of		Work with patients, out of
	tuberculosis. Emergency conditions in tuberculosis of the respiratory system.		which 50% is patient
			management
	Boundary control (tests, OSE)	2	management

Mid	term control 1	Summative evaluation:							
		2 stages:							
		1-stage – MCQ testing for understanding and application - 50%							
	2-stage – mini clinical exam (MiniCex) - 50%								
Mid	term control 2	Summative evaluation:							
		2 stages:							
		1-stage – MCQ testing for understanding and application - 50%							
		2-stage – mini clinical exam (MiniCex) - 50%							
Fina	l control (Exam)	Summative evaluation:							
		2 stages:							
		1-stage – MCQ testing for understanding and application - 50%							
		2- stage – OSCE with NP - 50%							
Tota		100							
9.		ing in the discipline							
		ne approaches to teaching and learning that will be used in teaching)							
		ing methods: TBL, CBL							
1	Methods of forma								
	TBL – Team Base	d Learning							
	CBL – Case Based	d Learning							
2	Summative assess	sment methods (from point 5):							
	1. MCQ testing fo	r understanding and application							
	2. Passing practical	al skills - miniclinical exam (MiniCex)							
	3. SIW - creative	task							
	4. Medical history								
	5. Scientific project	et SSRW (student's scientific research work)							
	6. 360 score - behavior and professionalism								
10.	Summative assessment								
№	Forms of control General % from total %								
1	Patient history defence 30% (estimated by the checklist)								
5	Border control	70%							
		(1-stage – MCQ testing for understanding and application - 50%;							
		2- stage – mini clinical exam (MiniCex) - 50%							
	Border control 1	30% +70% = 100%							
1	Patient history def	Sence 20% (estimated by the checklist)							

	T					
2		ore - behavior a	and 10% (estimate	d by the checklist)		
	professionalism					
3		fic project SSF				
	(studen		ific			
	researcl					
5	Border	control	60%			
				Q testing for understanding and application - 50%;		
				i clinical exam (MiniCex) - 50%		
	der conti	rol 2	20+10+10 + 60	0 = 100%		
9	Exam		2 stages:			
				ing on MCQ for understanding and application - 50%		
				CE with NP - 50%		
10	Final so	core:	ORD 60% + E	xam 40%		
10.	Score					
Rati	ing by	Digital	Points	Assessment Description		
lette	~ •	equivalent	(% content)	(changes should be made only at the level of the decision of the Academic Committee on the		
syste	em	1		quality of the faculty)		
Ā		4,0	95-100	Excellent. Exceeds the highest job standards.		
A-		3,67	90-94	Excellent. Meets the highest job standards.		
B+		3,33	85-89	Good. Very good. Meets high job standards.		
В		3,0	80-84	Good. Meets most of the job standards.		
B-		2,67	75-79	Good. More than enough. Shows some reasonable ownership of the material.		
C+		2,33	70-74	Good. Acceptable.		
				Meets the basic standards of the task.		
С		2,0	65-69	Satisfactory. Acceptable. Meets some basic job standards.		
C-	- 1,67 6		60-64	Satisfactory. Acceptable. Meets some basic job standards.		
D+	D+ 1,33 55		55-59	Satisfactory.		
				Minimally acceptable.		
D) 1,0 5		50-54	Satisfactory.		
				Minimally acceptable. The lowest level of knowledge and completion of the task.		
FX	X 0,5 25		25-49	Unsatisfactory.		
				Minimally acceptable.		

Author Author Name of the book, publishe r	F	0	0-24	Unsatisfactory.							
Author Author Name of the book, publishe received in the library											
Author 1. Tuberculosis: Laboratory Diagnosis and Treatment Strategies Timothy D. McHugh, 2012 2. Rakisheva A. S., Tsogt G. "Phthisiology" textbook for students of medical universities, Almaty, 2014, pp. 270-283. 3. Perelman M. I. Phthisiology (Electronic resource): textbook / M. I. Perelman, I. V. Bogadchikova 4th ed., reprint. and additional-M.: GEOTAR-Media, 2015 448 p. 1SBN 978-5-9704-3318-8, Access mode: http://www.studmedlib.ru/book/ISBN9785970433188.html 4. Order of the Minister of Health of the Republic of Kazakhstan dated November 30, 2020 No. KR DSM-214/2020 5. World Health Organization (WHO). Section Tuberculosis www.who.int/tb/ru/ 6. Electronic library system "Student consultant" under the contract, [Electronic resource] / LLC "IPUZ", Moscow Access mode: http://www.studmedlib.ru 7. Electronic resources: - Moodle, electronic databases - electronic textbooks - educational videos - educational animation-presentations 1. Phthisiatry / Koshechkin V. A Mockba: ГЭОТАР-Медиа, 2017. 2. Clinical Tuberculosis Edited By Lloyd N. Friedman, Martin Dedicoat, Peter D. O. Davies, 2021		tional resource	es (use the full li	1 V V							
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		2. R 2 3. P P B 9 4. C K 5. V 6. E 7. E 8. E 1. Phthi 2. Clini	Rakisheva A. S., on the control of the Min Ray of t	boratory Diagnosis and Treatment Strategies Timothy D. McHugh, 2012 Tsogt G. "Phthisiology" textbook for students of medical universities, Almaty, 3. Phthisiology. translated into Kazakh by T. A. Muminov Almaty, 20123. Phthisiology [Electronic resource]: textbook / M. I. Perelman, I. V. 4th ed., reprint. and additional-M.: GEOTAR-Media, 2015 448 p ISBN 8-8, Access mode: http://www.studmedlib.ru/book/ISBN9785970433188.html ister of Health of the Republic of Kazakhstan dated November 30, 2020 No. 20 ganization (WHO). Section Tuberculosis www.who.int/tb/ru/v system "Student consultant" under the contract, [Electronic resource] / LLC v Access mode: http://www.studmedlib.ru ssces: - Moodle, electronic databases - electronic textbooks - educational videos mation-presentations nkin V. A Москва: ГЭОТАР-Медиа, 2017.							
Available at the department											

	Additional Available in the library Available at the department (link to Classroom)							
Electronic	Internet resources:							
resources	1. Medscape.com - https://www.medscape.com/familymedicine							
	2. Oxfordmedicine.com - https://oxfordmedicine.com/ 3. Uptodate.com - https://www.wolterskluwer.com/en/solutions/uptodate							
4. Osmosis - https://www.youtube.com/c/osmosis								
	5. Ninja Nerd - https://www.youtube.com/c/NinjaNerdScience/vi	- https://www.youtube.com/c/NinjaNerdScience/videos Medicale - https://www.youtube.com/c/CorMedicale - medical video animations in Russian language.						
	7. Lecturio Medical - https://www.youtube.com/c/CorMedical							
	8. SciDrugs - https://www.youtube.com/c/SciDrugs/videos	video leetuves on phormosology in Dussian language						
	9. Classroom-https://classroom.google.com/c/NjM5MTM2							
	5. Ciassi dom-mups://ciassi dom.googie.com/c/NJM5M11M12	ANDATMIDUW; CJC-xanngop						

1. Google classroom - https://classroom.google.com/c/NjM5MTM2NDA1MDUw?cjc=xahngop
2. Medical calculators: Medscape, Physician's Handbook, MD+Calc - freely available.
3. Directory of diagnostic and treatment protocols for medical workers from the RCHD, the Ministry of Health of the Republic of
Kazakhstan: Dariger - available in the public domain.

12. Tutor Requirements and Bonus System

A student in accordance with an individual internship plan:

- 1) supervises patients in organizations providing pre-medical medical care, emergency medical care, specialized medical care (including high-tech), primary health care, palliative care and medical rehabilitation;
- 2) participates in the appointment and implementation of diagnostic, therapeutic and preventive measures;
- 3) conducts documentation and sanitary and educational work among the population;
- 4) participates in preventive examinations, medical examinations, is present at consultations;
- 5) participates in clinical rounds, clinical reviews;
- 6) participates in duty at least four times a month in medical organizations (duty is not taken into account when calculating the workload of an internship student);
- 7) participates in clinical and clinical-anatomical conferences;
- 8) is present at pathoanatomical autopsies, participates in the research of autopsy, biopsy and surgical materials;
- 9) under the supervision of a scientific supervisor, collects material and analyzes data for a scientific project.

Bonus system:

For extraordinary achievements in the field of future professional activity (clinical, scientific, organizational, etc.), additional points up to 10% of the final assessment can be added to the student (by the decision of the department)

13.	Discipline policy (части, выделенные зеленым, пожалуйста, не изменяйте)
	Discipline policy is determined by the University's Academic Policy and the University's Academic Integrity Policy. If the links do not
	open, then you can find the relevant documents in IS Univer.
	Rules of Professional Conduct:
	1) Appearance:
	✓ office style of clothing (shorts, short skirts, open T-shirts are not allowed to attend university, jeans are not allowed in the clinic)
	✓ Clean and ironed coat
	✓ medical mask
	✓ medical cap (or a neat hijab without hanging ends)

- ✓ medical gloves
- ✓ changeable shoes
- ✓ neat hairstyle, long hair should be gathered in a ponytail, or a bun, for both girls and guys. Neatly short cut nails. Bright, dark manicure is prohibited. It is permissible to cover the nails with transparent varnish.
- ✓ badge with full name (full name)
- 2) Mandatory presence of a phonendoscope, tonometer, centimeter tape, (you can also have a pulse oximeter)
- 3) Properly executed sanitary (medical) book (before the start of classes and must be updated on time)
- 4) * Possession of a vaccination passport or other document confirming a fully completed course of vaccination against COVID-19 and influenza
- 5) Mandatory observance of the rules of personal hygiene and safety
- 6) Systematic preparation for the educational process.
- 7) Accurate and timely maintenance of reporting documentation.
- 8) Active participation in medical-diagnostic and public events of the departments.

A student without a medical book and vaccination will not be allowed to see patients.

A student who does not meet the requirements for appearance and / or from whom a strong / pungent odor emanates, since such a smell can provoke an undesirable reaction in the patient (obstruction, etc.) - is not allowed to the patients! Преподаватель в праве принять решение о допуске к занятиям студентов, которые не выполняют требования профессионального поведения, включая требования клинической базы!

Study discipline:

- 1. Being late for classes or the morning conference is not allowed. In case of being late, the decision on admission to the lesson is made by the teacher leading the lesson. If there is a good reason, inform the teacher about the delay and the reason by message or by phone. After the third delay, the student writes an explanatory note addressed to the head of the department indicating the reasons for being late and is sent to the dean's office to obtain admission to the lesson. If you are late without a valid reason, the teacher has the right to deduct points from the current grade (1 point for each minute of delay)
- 2. Religious events, holidays, etc. are not a valid reason for skipping, being late and distracting the teacher and the group from work during classes.
- 3. If you are late for a good reason do not distract the group and the teacher from the lesson and quietly go to your place.
- 4. Leaving the class ahead of time, being outside the workplace during school hours is regarded as absenteeism.
- 5. Additional work of students during study hours (during practical classes and shifts) is not allowed.
- 6. For students who have more than 3 passes without notifying the curator and a good reason, a report is issued with a

recommendation for expulsion.

- 7. Missed classes are not made up.
- 8. The internal regulations of the clinical bases of the department are fully applicable to students
- 9. Greet the teacher and any senior by standing up (in class)
- 10. Smoking (including the use of vapes, electronic cigarettes) is strictly prohibited on the territory of medical facilities (outdoors) and the university. Punishment up to the annulment of boundary control, in case of repeated violation the decision on admission to classes is made by the head of the department
- 11. Respectful attitude towards colleagues regardless of gender, age, nationality, religion, sexual orientation.
- 12. Have a laptop / laptop / tab / tablet with you for studying and passing MCQ tests for TBL, boundary and final controls.
- 13. Taking MCQ tests on phones and smartphones is strictly prohibited..

The behavior of the student at the exams is regulated by the "Rules for the final control", "Instructions for the final control of the autumn/spring semester of the current academic year" (the current documents are uploaded to the Univer IS and are updated before the start of the session); "Regulations on checking text documents of students for the presence of borrowings."

14 1. Constantly preparing for classes:

For example, backs up statements with relevant references, makes brief summaries

Demonstrates effective teaching skills, assists in teaching others

2. Take responsibility for your learning:

For example, manages their learning plan, actively tries to improve, critically evaluates information resources

3. Actively participate in group learning:

For example, actively participates in discussions, willingly takes tasks

4. Demonstrate effective group skills

For example, takes the initiative, shows respect and correctness towards others, helps to resolve misunderstandings and conflicts.

5. Skillful communication skills with peers:

For example, he listens actively, is receptive to nonverbal and emotional signals

Respectful attitude

6. Highly developed professional skills:

Eager to complete tasks, seek opportunities for more learning, confident and skilled

Compliance with ethics and deontology in relation to patients and medical staff

Observance of subordination.

7. High introspection:

For example, recognizes the limitations of his knowledge or abilities, without becoming defensive or reproaching others

8. Highly developed critical thinking:

	For example, accordingly demonstrates skills in performing key tasks, such as generating hypotheses, applying knowledge to cases from practice, critically evaluating information, making conclusions aloud, explaining the process of reflection 9. Fully complies with the rules of academic behavior with understanding, offers improvements in order to increase efficiency. Observes the ethics of communication – both oral and written (in chats and appeals) 10. Fully follows the rules with full understanding of them, encourages other members of the group to adhere to the rules
	Strictly adheres to the principles of medical ethics and PRIMUM NON NOCER
15.	Distance/Online Learning – Prohibited in Clinical Discipline
	(части, выделенные зеленым, пожалуйста, не изменяйте)

1. According to the order of the Ministry of Education and Science of the Republic of Kazakhstan No. 17513 dated October 9, 2018 "On approval of the List of areas of training with higher and postgraduate education, training in which in the form of external studies and online education is not allowed". According to the above regulatory document, specialties with the discipline code of health care: bachelor's degree (6B101), master's degree (7M101), residency (7R101), doctoral studies, (8D101) - training in the form of external study and online education - is not allowed. Thus, students are prohibited from distance learning in any form. It is only allowed to work out a lesson in a discipline due to the absence of a student for reasons beyond his control and the presence of a timely confirming document (example: a health problem and presenting a confirming document - a medical certificate, a signal sheet of the PHC, an extract from a consultative appointment with a medical specialist - a doctor)

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16. Approval and rev	view	
Department head	K	Kurmanova G.M.
Teaching Quality Committee and teaching faculty	K	Kurmanova G.M.

THEMATIC PLAN AND CONTENT OF PRACTICAL CLASSES

NC-	T:-	Combons	T 1. 1
$N_{\underline{0}}$	Topic	Content	Teaching methods
1	Epidemiology of tuberculosis	Tuberculosis remains one of the deadliest infections in the world (WHO, 2022) and	TBL
	and its features in the world	is currently the second cause of death from infectious diseases after COVID-19. In	
	and Kazakhstan. Infection	2020, for the first time in more than ten years, there was an increase in the number of	
	control is an important	deaths from tuberculosis. Multidrug-resistant tuberculosis (MDR-TB) continues to be	
	component of the "End TB"	a crisis situation and a threat to health security. The problem of tuberculosis with	
	strategy. The causative agent of	MDR/XDR-TB causes serious concerns around the world and in Kazakhstan.	
	tuberculosis and its properties.	Kazakhstan is one of the 30 countries in the world with a high level of MDR-TB.	
	Sources and ways of	Infection control is a set of measures to prevent the transmission of Mycobacterium	
	transmission of infection.	tuberculosis (MBT) in medical institutions and reduce the risk of spreading TB	
	Tuberculosis with multiple and	infection. The causative agent of tuberculosis is Mycobacterium tuberculosis, which	
	broad drug resistance	is characterized by very high resistance to environmental factors. The main route of	
	(MDR/XDR-TB).	transmission of tuberculosis is aerogenic.	
2	Methods of detection and	Methods for detecting TB in children, adolescents and adults: sputum examination in	TBL
	diagnosis of tuberculosis in	the presence of cough for more than 2 weeks by the molecular genetic method G-	
	children, adolescents and adults	Xpert, FG - from 15 years, in children also the Mantoux test 2 TE and ATP	
	Tuberculosis infection (LTBI).	(Diaskintest). For the diagnosis of TB - Hain-test and VASTES. Latent tuberculosis	
	,	infection (LT) is a state of persistent immune response to Mycobacterium tuberculosis	
		antigens that have previously entered the body in the absence of clinical	
		manifestations of active tuberculosis. Diagnostic methods of LTI: Mantoux test, ATP,	
		IGRA tests (T-SPOT.TB, QuantiFERON ® -TV Gold).	
3	Tuberculosis prevention is	Prevention of TB in children includes: timely detection and appropriate treatment of	
	specific (BCG vaccination and	TB patients; specific immunization (BCG vaccination); specific chemoprophylaxis.	
	revaccination). Undesirable	The Calmette-Guerin bacillus is a BCG vaccine, first used in 1921, but is still the only	
	reactions of the BCG vaccine.	vaccine used to protect against TB. The effect of BCG vaccination is manifested in	
	Nonspecific prevention of	protection against severe hematogenic forms of TB, including tuberculous meningitis	
	tuberculosis.	and miliary tuberculosis in young children. Vaccination in the Republic of	
		Kazakhstan is carried out on 1-4 days of life, in childbirth.at home, revaccination – at	
		6 years old (1st grade). Indications and contraindications to BCG vaccination and	
		revaccination. Undesirable effects on the introduction of BCG (lymphadenitis,	
		subcutaneous cold abscess, ulcer, ostitis, keloid scar) – diagnosis, management	

		tactics. Preventive treatment – indications, therapy regimens according to WHO and CP recommendations.	
4	Classification of tuberculosis,	Primary tuberculosis. Features of the primary period of tuberculosis infection.	CBL
	classification of cases of the	Clinical manifestations of paraspecific reactions. Diagnostic algorithm for suspected	CBL
	disease. Primary forms of	primary tuberculosis.	
	tuberculosis. Primary	Primary tuberculosis complex. Clinical and radiological stages and variants of the	
	tuberculosis complex.	clinical course. Diagnosis and treatment, outcomes, observation of the dispensary.	
	Tuberculosis of the intra-	Tuberculosis of the intra-thoracic lymph nodes. Forms of the disease, diagnosis,	
	thoracic lymph nodes. Clinic,	treatment, outcome and differential diagnosis. Primary tuberculosis in adults.	
	diagnosis, treatment, outcomes.	Features of clinical manifestations, diagnosis, treatment, outcome, observation of	
		the dispensary. Differential diagnosis of primary tuberculosis.	
5	Disseminated pulmonary	Disseminated tuberculosis. Features of disseminated tuberculosis in early and late	CBL
	tuberculosis (acute, subacute,	dissemination. Clinical forms of disseminated tuberculosis: acute, subacute, chronic,	
	chronic). Clinic, diagnosis,	generalized. Clinical variants of acute disseminated tuberculosis, diagnosis.	
	treatment	Treatment and outcomes, observation of the dispensary. Differential diagnosis of	
		disseminated tuberculosis.	
6	Tuberculous meningitis	Tuberculous meningitis. Classification. Clinical manifestations. Pathomorphosis of	CBL
	/meningoencephalitis - clinic,	tuberculous meningitis. Diagnostics, differential diagnostics. Treatment. Prevention.	
	diagnosis, treatment.	Dispensary observation. Liquor program	
7	Secondary forms of	Focal tuberculosis is a limited process, the main method of detection is FG. Clinical	CBL
	tuberculosis. Focal, infiltrative	and radiological manifestations of infiltrative pulmonary tuberculosis, features of	
	pulmonary tuberculosis,	their diagnosis, differential diagnosis and treatment. Caseous pneumonia,	
	caseous pneumonia,	pathogenesis. Clinic, diagnostics, differential diagnosis, observation of the	
	tuberculoma, cavernous,	dispensary. Tuberculosis, types of tuberculosis, clinical and radiological features of	
	fibrous-cavernous - clinic,	the course. Diagnosis and treatment. Destructive forms of tuberculosis, their	
0	diagnosis, treatment.	significance in the epidemiology of tuberculosis.	CDI
8	Extrapulmonary forms of	Tuberculous pleurisy. Clinical and radiological picture. Videothoracoscopic method	CBL
	tuberculosis. Tuberculous	in diagnosis and treatment. Diagnosis, differential diagnosis of pleurisy of tuberculous	
	pleurisy, tuberculosis of bones	etiology, treatment. Tuberculosis of bones and joints (spondylitis, coxitis, gonitis,	
	and joints, tuberculosis of peripheral and mesenteric	etc.) – diagnosis and treatment. Tuberculosis of peripheral and mesenteric lymph nodes, features of the course and diagnosis. The importance of instrumental (biopsy,	
	lymph nodes (clinic, diagnosis,	laparoscopy) and molecular genetic methods in the diagnosis of extrapulmonary	
	treatment).	forms of TB.	
9	Tuberculosis of the lungs in	Tuberculosis of the lungs and HIV infection. About 10% of patients with HIV	CBL
	combination with other	infection suffer from tuberculosis. In this regard, this combination acquires acute	CDL
	diseases (HIV infection and	medical and social significance.	
	and and and	modical and social significance.	

	AIDS, diabetes mellitus,	Tuberculosis of the lungs and diabetes mellitus. Diabetes mellitus causes tuberculosis	
	COPD, drug addiction,	2-4 times more often than healthy people. Clinical and radiological signs of	
	alcoholism). Tuberculosis in	tuberculosis in patients with diabetes mellitus. Early detection of tuberculosis,	
	pregnant women and in the	treatment and prevention in diabetic patients.	
	postpartum period.	Pulmonary tuberculosis and COPD. Patients with chronic nonspecific respiratory	
		diseases are a risk group for tuberculosis and vice versa, patients with residual post-	
		tuberculosis changes suffer from chronic diseases of the bronchopulmonary system.	
		Early detection, treatment and prevention of tuberculosis.	
		Pulmonary tuberculosis and peptic ulcer disease. Patients with gastric ulcer and	
		duodenal ulcer are persons with an increased risk of tuberculosis. Both diseases	
		mutually burden the course of diseases. Features of the clinic and treatment,	
		prevention.	
		Tuberculosis of the lungs and alcoholism. The course of tuberculosis in patients with	
		alcoholism. Features of inpatient and outpatient treatment. Tuberculosis and drug	
		addiction, tuberculosis and tobacco smoking.	
		Tuberculosis of the lungs in pregnant women and in the postpartum period. Diagnosis,	
		clinic, features of the course of tuberculosis in pregnant women and in the postpartum	
		period, treatment, dispensary observation.	
10	Basic principles and methods	International standards of treatment. Treatment of patients depending on the	CBL
	of treatment of tuberculosis	sensitivity of the pathogen, treatment regimens. The value of controlled	
	patients, including those with	chemotherapy. Principles of chemotherapy. Pharmacovigilance and monitoring of	
	MDR/XDR-TB in accordance	adverse events in the treatment of tuberculosis patients. MDR, XDR-TB, features of	
	with international standards	treatment of patients with drug-resistant forms of MBT. Indications for the use of	
	and clinical protocols. Criteria	surgical methods of treatment. The concept of a clinical cure for tuberculosis, criteria.	
	for the cure of tuberculosis.	Emergency care for pulmonary hemorrhage and spontaneous pneumothorax.	
	Emergency conditions in		
	tuberculosis of the respiratory		
	system		

RUBRICATOR FOR ASSESSING LEARNING OUTCOMES with summative assessment

Rating calculation formula

For the 4th course as a whole- overall admission rating (OAR)

Medical history	30%
Border control 1	70%
Total for BC-1	100%
360 rating	10%
Science project	10%
Medical history	20%
Border control 2	60%
Total for BC -2	100%

Final score: OAR 60% + exam 40%

Exam (2 stages) – MSQ testing (40%) + OSKE (60%)

Team based learning – TBL

	%
Individual (IRAT)	30
Group (GRAT)	20
Appeal	10
Case rating	20
Companion rating (bonus)	10
Self-rating	10
	100%

Case-based learning CBL

		%
1	Interpreting survey data	10
2	Interpretation of physical examination findings	10
3	Preliminary diagnosis, justification, PD, examination plan	10
4	Interpretation of lab-instrumental examination data	10

5	Clinical diagnosis, problem sheet	10
6	Management and treatment plan	10
7	The validity of the choice of drugs and treatment regimens	10
8	Evaluation of effectiveness, prognosis, prevention	10
9	Special problems and questions on the case	10
10	Companion rating (bonus)	
		100%

Tasks for the DEADLINE, the Schedule of their implementation, Methodological guidelines for them

Independent work of the student with the teacher: 20 hours

- work in small groups during school hours
- practicing practical skills in the Simulation Center according to scenarios
- participation in the SSS of the department, presentations at conferences
- curation of a tuberculosis patient with writing a medical history

Extracurricular independent work of the student: 20 hours

- study of special medical literature
- work with electronic information resources, including medical portals on the Internet
- creation of a presentation on the proposed SRO topics and presentation at the specified lesson

Schedule of SRO implementation

Individual task – creation of a medical simulation scenario or an algorithm for diagnosis and treatment on the proposed topics

No॒	Tasks for the SRS*	The content of the SRS	The form of the	Dates	of the
			SRS completion	SRS**	(school
				week)	

1	Prevention and early detection of tuberculosis. Informational and educational materials for the population and TB patients.	Prevention of tuberculosis (specific and nonspecific). Detection: sputum examination G-Xpert, FG, Mantoux–ATP test (Diaskintest), IGRA tests.	IOM (leaflets, brochures, calendars)
2	Stigma and discrimination in tuberculosis. Stigma and discrimination are the reason for late diagnosis and separation from treatment.	Stigma and discrimination are considered to be one of the most serious barriers in the fight against the tuberculosis epidemic. Stigma hinders the search for help, contact tracing, outbreak investigation, treatment, compliance with doctors' instructions and the quality of medical care.	Essay
3	Tuberculosis and Covid 19	Many symptoms of tuberculosis and COVID-19 coincide, therefore, during a pandemic, differential diagnosis, timely and correct treatment of these diseases is essential.	Diagnostic algorithm
4	Tuberculous meningoencephalitis film loss, MBT G-Xpert	In tuberculous meningitis / meningoencephalitis in CSF: lymphocytic cytosis, increase in protein, decrease in sugar, chlorides, "+" Pandey reaction, fibrin	Character of the liquor
5	BCGits as a PID marker	Causes of post-vaccination complications of BCG: biological properties of the vaccine strain (live mycobacteria); concomitant pathology in a child during the formation of post-vaccination immunity; the state of the immune	Presentation

administration of the drug.		status of the child, violations of the technique of intradermal	
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360° assessment checklist for student CURATOR and Lecturer

FULL NAME of Curator	Signature
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	Very well	Criteria and points	Unsatisfactory
1	Constantly preparing for classes: For example, backs up statements with relevant references, makes short summaries Demonstrates effective teaching skills, assists in teaching others	Preparing for classes 10 8 6 4 2 0	Constantly not preparing for class For example, insufficient reading and study of problematic issues, makes little contribution to the knowledge of the group, does not analyze, does not summarize the material.
2	Takes responsibility for their own learning:	A responsibility	Takes no responsibility for their own learning:
	For example, manages their learning plan, actively tries to improve, critically evaluates information resources	10 8 6 4 2 0	For example, depends on others to complete the learning plan, hides mistakes, rarely critically analyzes resources.
3	Actively participates in the training of the group:	Participation	Not active in the group training process:

	For example, actively participates in discussions, willingly takes tasks	1086420	For example, does not participate in the discussion process, is reluctant to accept assignments
4	Demonstrates effective group skills	Group skills	Demonstrates ineffective group skills
	For example, takes the initiative, shows respect and correctness towards others, helps to resolve misunderstandings and conflicts.	1086420	For example, inappropriately intervening, showing poor discussion skills by interrupting, avoiding or ignoring others, dominating or impatient
5	Skilled in communicating with peers:	Communicatio	Difficulty communicating with peers
	For example, actively listening, receptive to non-verbal and emotional cues Respectful attitude	ns 10 8 6 4 2 0	For example, poor listening skills, unable or disinclined to listen to non-verbal or emotional cues Use of obscene language
6	Highly developed professional skills:	Professionalis	Clumsy, fearful, refusing to try even
	Eager to complete tasks, seek opportunities for more learning, confident and skilled	m	basic procedures
	Compliance with ethics and deontology in relation to patients and medical staff Observance of subordination.	1086420	Inferiority in professional behavior - causing harm to the patient, rude disrespectful attitude towards medical
		D.G. t'	staff, colleagues
7	High introspection:	Reflection	Low introspection:
	For example, recognizes the limitations of their knowledge or abilities without becoming defensive or rebuking others.	10 8 6 4 2 0	For example, needs more awareness of the limits of understanding or ability and does not take positive steps to correct
8	Highly developed critical thinking:	Critical thinking	Critical Thinking Deficiency:

	For example, appropriately demonstrates skill in performing key tasks such as generating hypotheses, applying knowledge to case studies, critically evaluating information, drawing conclusions aloud, explaining the process of thinking	1086420	For example, has difficulty completing key tasks. As a rule, does not generate hypotheses, does not apply knowledge in practice either because of their lack or because of inability (lack of induction), does not know how to critically evaluate information
9	Fully adheres to the rules of academic conduct with understanding, suggests improvements in order to increase efficiency. Complies with the ethics of communication - both oral and written (in chats and appeals)	with the rules	Пренебрегает правилами, мешает другим членам коллектива Neglects the rules, interferes with other members of the team
10	Fully follows the rules with full understanding of them, encourages other members of the group to adhere to the rules Strictly adheres to the principles of medical ethics and PRIMUM NON NOCERE Maximum	Compliance with the rules of conduct in the hospital 10 8 6 4 2 0 100 points	Breaks the rules. Encourages and provokes other members of the group to break the rules Creates a threat to the patient

^{*} gross violation of professional behavior, rules of conduct in the hospital - or a decrease in the grade for boundary control or cancellation; ethical committee

Such violations are a threat to the health of patients due to action (for example, smoking on the territory of the hospital) or inaction; rudeness and rudeness towards any person (patient, classmate, colleague, teacher, doctor, medical staff)

Point-rating assessment (check-list) of medical history management (maximum 100 points)

	Criteria	10	8	6	4	2
№		Excellent	Good	Satisfactory	Need correction	Bad
1	Patient complaints: major and minor	Completely and systematically, with an understanding of important	Accurate and complete	basic information	Incomplete or inaccurate, some details are missing	Misses important
2	Collecting an anamnesis of the disease	details			details are missing	
3	Anamnesis of life					
4	Objective status - general examination	Completely and systematically, with an understanding of important details	Consistently and correctly	Identification of main data	Incomplete or not quite correct, not attentive to patient comfort	Inappropriate data
5	Nervous system		Complete, effective, technically correct application of all examination skills, physical examination with minor errors, or corrected during execution	Revealed basic data Physical examination skills learned	Incomplete or Inaccurate Physical examination skills need to be improved	Important data are missing. Inappropriate physical examination skills

	Medical history presentation	Maximum full description	precise, focused;	Record is by	Many important	Lack of control of
		and presentation	choice of facts	form, includes all	omissions, inaccurate	the situation, many
6		Understands the problem	shows understanding	basic information;	or unimportant facts	important
		in a complex, connects			are often included	omissions, many
		with the patient's features				clarifying questions
		with the patient's reatures				

Point-rating assessment (check-list) of the ISW (independent student's work) - creative task (maximum 90 points) + bonuses for English and time management

		10	8	4	2
1	Problem solving	The organized concentrated, allocates all questions which are falling into to the main revealed problem with a comprehension of a concrete clinical situation	Organized, the concentrated, allocates all questions which are falling into to the main revealed problem, but there is no comprehension of a concrete clinical situation	Not the concentrated, Derivation on the questions which are not falling into to the main revealed problem	Inaccurate, misses the main thing, disharmonious data.
2	Information	All necessary information on a subject in the free, serial, logical manner is completely conveyed	All necessary information in a logical manner, but with shallow inaccuracies is conveyed	All necessary information on a subject is explained chaotically, with not gross errors	Important information on a subject, gross errors is not reflected

		The product form is adequately chosen			
3	Significance	Material is chosen on the basis of authentically established facts. Manifestation of a comprehension on the level or quality of proofs	Some conclusions and the conclusions are formulated on the basis of assumptions or the incorrect facts. There is no complete comprehension of level or quality of proofs	Not the sufficient comprehension of a problem, some conclusions and the conclusions are based on the inexact and not proved data – doubtful resources are used	Conclusions and the conclusions are not proved or irregular
4	Logic	logical and well reasoning, has internal unity, provisions in a product follow one of another and are logically interdependent between themselves	Has internal unity, provisions of a product one of another follows, but there are inaccuracies	There is no sequence and logicality in statement, but it is possible to keep track of the main idea	Jumps from one on another, it is difficult to catch the main idea
5	Recourses	Literary data are submitted in logical interrelation, show deep study of the main and padding informational resources	Literary data show study of the main literature	Only ordinary recourses	Inconsistency and randomness in statement of data, an inconsistency There is no knowledge of the main textbook Using of Google
6	Practical application	High	Good	moderate	no
7	Patient focusing	High	Good	moderate	no

8	Applicability in future practice	High	Good	moderate	no	
9	Presenation	Correctly, to the place all opportunities of Power Point or other e-softs, the free possession of material, a sure manner of statement are used	It is overloaded or are insufficiently used visual materials, inexact possession of material	Visual materials are not informative	Does not own material, is not able to explain it	
b o n u s	Time management*	10 For before deadline	In time	Good quality but a little late Minus 2-4	After deadline more than 24 hours Minus 10	
b o n u s	Rating**	10 points additional	Outstanding work, for example: The best work in group Creative approach Innovative approach to realization of a task According to the proposal of group			
	* The deadline is determined by the teacher, as a rule - the day of the boundary control ** thus, you can get 90 points as much as possible, to get above 90-you need to show a result higher than expected					