

**Federal State Budgetary Educational Institution of Higher Education
«North-Ossetia State Medical Academy»
of the Ministry of Healthcare of the Russian Federation**

APPROVED

Rector of FSBEI HE NOSMA MON

Russia

April 17, 2024

TRAINING PRACTICE PROGRAM

general medical practice (the basics of practical training for the professional activity of a
general practitioner for the provision of primary health care)

"DETECTING TUBERCULOSIS IN THE COMMON HEALING NETWORK"

the main professional educational program of higher education - specialty programs in the
specialty 31.05.01 General medicine (educational program, partially implemented in
english), approved in April 17, 2024

Full-time study

form _____

The term for the development of the OBOP VO is 6 years

Department: Phthisiopulmonology

When developing the work program of the practice, the basis is based on:

1. FGOS VO by specialty 05.31.01 General medicine, approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988.

2. Curricula of OPOP VO in the specialty 31.05.01 General Medicine,

ЛД-21-01-21 ИИ

ЛД-21-02-22 ИИ

ЛД-21-03-23 ИИ

ЛД-21-04-24 ИИ

approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation April 17, 2024, Protocol № 6.

The work program of the discipline was approved at a meeting of the Department of Phthisiopulmonology on April «01», 2024, protocol No. 8

The educational training program of the discipline was approved at a meeting of the central coordinating training and methodological council from "02" April 2024, Protocol №. 4

The educational training program of the discipline was approved by the Scientific Council of the State Medical University of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation from "17" April 2024, Protocol № 6.

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PROF. head Department of Internal Diseases No. 1 FSBEI HE SOGMA Ministry of Health of Russia. d.m.s. I.N. Totrov.

Content of the internship program

1. an indication of the type of practice, the method and form (forms) of its implementation;
2. a list of planned learning outcomes during internship, correlated with the planned results of mastering the educational program;
3. indication of the place of practice in the structure of the educational program;
4. an indication of the amount of practice in credit units and its duration in weeks, indicating the number of academic or astronomical hours;
5. the content of the practice;
6. indication of reporting forms for practice;
7. assessment materials for intermediate certification of students in practice;
8. a list of basic and additional educational literature necessary for mastering the discipline;
9. a list of resources of the information and telecommunication network "Internet" (hereinafter - the "Internet" network), necessary for mastering the discipline;
10. methodological instructions for students to master the practice;
11. a list of information technologies used in the practice, including a list of software and information reference systems (if necessary);
12. description of the material and technical base necessary for the implementation of the educational process in the discipline.
13. conducting educational activities using e-learning and distance learning technologies.

2. The list of planned learning outcomes during internship, correlated with the planned results of mastering the educational program

No. of p / p	Number / Index Competencies	Content practices (or part of it)	Lesson topic (section)	Indicators achievements competencies	Development results		
					know	be able to	own
1	2	3	4	5	6	7	8
1	UK-1	Systems and critical thinking	<p>1. Regulatory documentation for the organization of anti-tuberculosis care for the population of the Russian Federation. Tuberculosis risk groups among polyclinic contingents, peculiarities of work in polyclinics and general somatic hospitals.</p> <p>2. The main methods of diagnosis of tuberculosis. Algorithm of a general practitioner for suspected tuberculosis . Modern technologies for detecting tuberculosis.</p> <p>3. Clinical forms of tuberculosis of the respiratory organs and extrapulmonary localizations. The main symptoms and syndromes</p>	<p>ID-1 UK-1 Identifies problem situations and searches for the necessary information to solve problems in the professional field.</p> <p>ID-2 UK-1 Forms value judgments in the professional field</p> <p>ID-3 UK-1 Conducts a critical analysis of information using the historical method</p> <p>ID-4 UK-1 Develops an action strategy for solving problems in the professional field.</p>	<p>1. Soshnosti methods of system analysis and synthesis, the concept of "abstraction", its types and meaning.</p>	<p>1. To highlight and systematize medical educational and professional information, predict patterns.</p>	<p>1. In the skills of collecting information processing on educational and professional problems, skills in choosing methods and means of solving educational and prof. tasks.</p>

			of tuberculosis. Differential diagnosis. 4. Sanitary prevention of tuberculosis, the focus of tuberculosis, anti-epidemic measures in the focus of tuberculosis.				
2	OPK-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities.	1. Regulatory documentation for the organization of anti-tuberculosis care for the population of the Russian Federation. Tuberculosis risk groups among polyclinic contingents, peculiarities of work in polyclinics and general somatic hospitals. 2. The main methods of diagnosis of tuberculosis. Algorithm of a general practitioner for suspected tuberculosis. Modern technologies for detecting tuberculosis. 3. Clinical forms of tuberculosis of the respiratory organs and extrapulmonary localizations. The main symptoms and syndromes of	ID-1 OPK-1 Complies with moral and legal standards in professional activities. ID-2 OPK-1 Expresses professional information in the process of intercultural interaction, observing the principles of ethics and deontology	ecal and deontological features of medical practice in TB needed to work with patients tuberculosis and their relatives;	nrimenyat ethical - skie and deontological principles in professional activities	e tiche - Skim and Deontay - logical - Skim aspect - mi physicians - chebnoy figure - Nosta.

			tuberculosis. Differential diagnosis. 4. Sanitary prevention of tuberculosis, the focus of tuberculosis, anti-epidemic measures in the focus of tuberculosis.				
3	OPK-4	Ability to use medical devices provided for by the procedure for the provision of medical care, as well as to conduct patient examinations in order to establish a diagnosis	1. Regulatory documentation for the organization of anti-tuberculosis care for the population of the Russian Federation. Tuberculosis risk groups among polyclinic contingents, peculiarities of work in polyclinics and general somatic hospitals. 2. The main methods of diagnosis of tuberculosis. Algorithm of a general practitioner for suspected tuberculosis. Modern technologies for detecting tuberculosis. 3. Clinical forms of tuberculosis of respiratory organs and extrapulmonary localizations. The main symptoms and syndromes of	ID-1 OPK-4 Is able to draw up a plan of laboratory and instrumental diagnostics ID-2 OPK-4 Owns the algorithm for the clinical examination of the patient. ID-3 OPK-4 Owns the algorithm for the use of medical devices, provided for by the procedure for the provision of medical care.	1. Methods for early and timely detection of tuberculosis in children, adolescents, adults. 2. Composition and properties of tuberculin. 3. Indications and technique of setting the Mantoux test with 2 TE PPD-Criteria for assessing the response to the Mantoux test with 2TE PPD-L.	1. About detecting, evaluating and describing pathological changes detected by radiation methods of research in patients with tuberculosis. 2. To determine the indications and evaluate the result of the Mantoux skin-allergic test with 2 TE PPD-L. 3. To determine the indications and contraindications for anti-tuberculosis vaccination and revaccination. 4.	1. Interpretation of reactions result in the Mantoux test with 2-TE PPD. 2. The ability to assess the fluorogram when conducting a mass survey of the population.

			tuberculosis. Differential diagnosis. 4. Sanitary prevention of tuberculosis, the focus of tuberculosis, anti-epidemic measures in the focus of tuberculosis.			To assess the course of the vaccination reaction with intradermal administration of the BCG vaccine. 5. Opredelit indications for chemotherapy - profilaktiki tuberculosis 6. Organize the work of honey. staff in the focus of tuberculosis infection.	
4	OPK-5	Able to assess morpho functional , physiological conditions and pathological processes in the human body to solve professional problems.	1. Regulatory documentation for the organization of anti-tuberculosis care for the population of the Russian Federation. Tuberculosis risk groups among polyclinic contingents, peculiarities of work in polyclinics and general somatic hospitals. 2. The main methods of diagnosis of tuberculosis. Algorithm of	ID-1 OPK-4 He is proficient in the algorithm of clinical, laboratory and functional diagnostics in solving professional problems. ID-2 OPK-4 Evaluates the results of clinical, laboratory and functional	1. Features of anamnesis, physical on - following the pain - GOVERNMENTAL tuberculosis 2. clinical manifestations of wasps - novnyh comprising - Nij life-	1. Interprets - Vata data cus - nical, X-ray - technologically, laboratornyh ICs - investigations pain - GOVERNMENTAL TB and to diagnose various Loka - tion of tubercle - useful to the process	1. Skills conduct cus - nical obsl - dovanie 2. skills determining the need methods The investigations - Research (Labora - Thorn of x - technologically, radial, function - rational). 3. The skills of determining - Kazan to Our Lady - tion of and op - ganizovat it.

			<p>a general practitioner for suspected tuberculosis . Modern technologies for detecting tuberculosis.</p> <p>3. Clinical forms of tuberculosis of the respiratory organs and extrapulmonary localizations. The main symptoms and syndromes of tuberculosis. Differential diagnosis.</p> <p>4. Sanitary prevention of tuberculosis, the focus of tuberculosis, anti-epidemic measures in the focus of tuberculosis.</p>	<p>diagnostics in solving professional problems.</p> <p>ID-3 OPK-4</p> <p>Determines morphofunctional, physiological states and pathological processes of the human body</p>	<p>threatening tuberculosis patient</p> <p>3. The indications for hospitalization of patients with tubercle - lezom</p> <p>4. clinical rentgenologiče - skie and laboratories - nye manifestations at different localizations</p> <p>spe - cific pro - cession</p> <p>5. pathologist's cal status, Symp - toms, syndromes converging - zhih with tubercle - Zoom pulmonary and</p>	<p>2. be able to assess the severity of the patient's condition</p> <p>tubercle - lezom, apply the necessary IU - ry to remove the patient from this state, determined - to divide the volume and the follower - Nosta remedial measures; Neot conduct - false and Rean - mation Mero - acceptance.</p> <p>3. To be able to carry out differential - hydrochloric diagnosis of infectious and postvaccinal allergies.</p> <p>4. be able to carry out differential - hydrochloric diagnose TB</p> <p>Drew -</p>	<p>4. skills in - radiation biome - Therians for tank-mammological - th and tsitologiče - Skogen Explore - Bani.</p> <p>5. identification and differentiation - ings in the Paci - ENTOV pathologists - Cesky comprising - Nia, symptoms, syndromes slaughtering - Levanov, similar to tuberculosis pulmonary and extrapulmonary Loka - tion of, nozolo - cal forms in accordance with the International Statistical Classification of Diseases 7. assessment skills cytology and tank - Theriological study sputum.</p>
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					extrapulmonary localization of, nosological forms in accordance with the International Statistical Classification of Diseases	gimi disease yami .	
5	OPK-7	Able to prescribe treatment and monitor its effectiveness and safety.	<p>1. Regulatory documentation for the organization of anti-tuberculosis care for the population of the Russian Federation. Tuberculosis risk groups among polyclinic contingents, peculiarities of work in polyclinics and general somatic hospitals.</p> <p>2. The main methods of diagnosis of tuberculosis. Algorithm of a general practitioner for suspected tuberculosis . Modern technologies for detecting tuberculosis.</p> <p>3. Clinical forms of</p>	ID-1 OPK-4 Conducts effective, safe therapy based on the clinical guidelines of the Russian Ministry of Health.	Treatment methods for patients with tuberculosis. mechanism of action of major groups les ka rstven- GOVERNMENTAL drugs. Medical indications and contraindications for their use; complications caused by their use.	Draw up a plan for examination and treatment of various forms of tuberculosis. Formulate indications for selected methods of treatment, taking into account etiotropic and pathogenetic agents, determine the route of administration, regimen and dose of drugs.	Drawing up an algorithm for the examination and determination of tactics for the administration of patients with various forms of tuberculosis.

		<p>tuberculosis of the respiratory organs and extrapulmonary localizations. The main symptoms and syndromes of tuberculosis. Differential diagnosis.</p> <p>4. Sanitary prevention of tuberculosis, the focus of tuberculosis, anti-epidemic measures in the focus of tuberculosis.</p>				
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3. Place of practice in the structure of the educational program.

Educational practice (Detection of tuberculosis in the general medical network) is a compulsory part of Block 2 of the Federal State Educational Standard of Higher Education in the specialty 31.05.01 "General Medicine".

4. The scope of practice.

No. No. p / p	Type of work	Total credits	Total hours	Semesters
				12
1	2	3	4	5
	Identification of tuberculosis in the general medical network.			
1	Contact work of students with the teacher (total), including:		24	24
2	Clinical Practices (CL)		24	24
3	Student independent work (SR)		12	12
4	Intermediate type appraisals	credit (C)		
		exam (E)		
5	TOTAL: General labor intensity	hours	36	36
		ZET	1 ZET	1

5. The content of the practice.

No ./n	Semester number	The name of the topic (section) of the discipline	Types of educational activities (in hours)					Forms of monitoring of progress
			L	LR	PZ	CPC	Total	
1	2	3	4	5	6	7	8	9
1	12	Regulatory documentation for the organization of anti-tuberculosis care for the population of the Russian Federation. Tuberculosis risk groups among polyclinic contingents, peculiarities of work in polyclinics and general somatic hospitals.			6	4	10	C, T3, C3
2.	12	Basic methods for diagnosing tuberculosis. Algorithm of a general practitioner for suspected tuberculosis. Modern technologies for detecting tuberculosis.			6	4	10	C, T3, C3
3.	12	Clinical forms of tuberculosis of the respiratory organs and extrapulmonary localizations. The main symptoms and syndromes of			6	2	8	C, T3, C3

		tuberculosis. Differential diagnosis						
4	12	Sanitary prevention of tuberculosis, the focus of tuberculosis, anti-epidemic measures in the focus of tuberculosis			6	2	8	C, T3, C3
TOTAL:					24	12	36	

Note: C - interview, T3 - test tasks, C3 - situational tasks.

6. The list of educational and methodological support for independent work of students in practice.

No./n	Semester number	Name of educational and methodological development
1	12	O.Z.Basieva , Z.K.Dzhagaeva "Methodological recommendations for self-preparation for practical training for students" Vladikavkaz 2023
2.	12	O.Z.Basieva , Z.K.Dzhagaeva "Tuberculinadia-gnostics". Vladikavkaz 2023

7. Assessment materials for intermediate certification of students in practice.

No. /n	List of competencies	No. semester	Indicator (s) evaluating	Criterion (and) evaluation	Grading scale	Name AM
1	2	3	3	4	5	6
1	UK-1 OPK-1 OPK-4 OPK-5 OPK-7	12	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	Exam b ilets for the exam; test tasks; situational tasks.

8. List of educational literature and Internet resources required for practice

№ / п	Наименование	Автор (ы)	Год, место издания	Кол-во экземпляров		Наименование ЭБС
				в библиотеке	на кафедре	ссылка в ЭБС
1	2	3	4	5	6	7
Основная литература						
1.	Фтизиатрия: учебник.	Перельман М.И., Корякин В.А., Богадельникова И.В.	М.: «ГЭОТ АР- Медиа» - 2007.	70		«Консультант студента» http://www.studmedlib.ru/ru/book/ISBN9785970433188.html .
2.	Фтизиопульмонология: учебник.	Мишин В.Ю., и др.	М.: «ГЭОТ АР- Медиа» - 2007.	5		«Консультант студента» http://www.studmedlib.ru/ru/book/ISBN9785970414392.html .
3.	Туберкулез: учеб. пособие.	Кошечкин В.А., Иванова З.А	М.: «ГЭОТ АР- Медиа» - 2007.	6		«Консультант студента» http://www.studmedlib.ru/ru/book/ISBN9785970405956.html .
Дополнительная литература						
1	Туберкулёз у детей и подростков: учеб. пособие.	ред. В.А. Аксенова	М.: «ГЭОТ АР- Медиа» - 2007.	7		
2	Туберкулинодиагностика.	Мишин В.Ю.	М.: «ГЭОТ АР- Медиа» - 2013.	1		«Консультант студента» http://www.studmedlib.ru/ru/book/ISBN9785970423387.html .
3	Туберкулез у детей и подростков.	ред. Л. Б. Худзик	М.: Медицина 2004.	2		
4	Туберкулез легких с ЛУ возбудителя.	Мишин В.Ю.	М.: «ГЭОТ АР- Медиа» - 2009.	3		«Консультант студента» http://www.studmedlib.ru/ru/book/ISBN9785970411667.html .
5	Рентгенодиагностика	Помельцов К. В.	М.: Медиц	5		

	туберкулезны х легких.		ина 1965.			
6	Туберкулез органов дыхания у взрослых; учеб. пособие.	Рабухин А.Е.	М.: Медиц ина 1976.	100		

9. The list of resources of the information and telecommunication network "Internet", necessary for the development of practice.

www.studmedlib.ru - electronic library of the medical university "Student's Consultant".
www.elibrary.ru - scientific electronic library, search is carried out according to the thematic section.

[www . ifapcom. ru](http://www.ifapcom.ru)

[www . rucont. ru](http://www.rucont.ru)

[www . gpntb. ru](http://www.gpntb.ru)

[www . rof . ru](http://www.rof.ru)

[www . whodc. com](http://www.whodc.com)

10. Methodical instructions for students on the development of practice.

The training program of educational practice "Identification of tuberculosis in the general medical network" includes theoretical (practical training), practical training (work in departments) and independent work.

Training includes 24 hours of contact work, practical training and 12 hours of independent work, a total of 36 hours.

Practical classes are held in the classrooms of the department, as well as in hospital wards, in the offices of additional research methods. In the departments, students master the practical skills of diagnosing and treating patients. Perform manipulations directly under the supervision of the teacher. In the course of classes, the means of educational and methodological support of the discipline, technical teaching aids, manuals, methodological instructions and other equipment necessary for mastering the discipline are used. The current control of knowledge is carried out at each practical lesson according to a point rating system according to two indicators: theoretical part and practical training. Knowledge control is also carried out with the help of test items. Intermediate knowledge control - test. In accordance with the requirements of the Federal State Educational Standard of Higher Education, active and interactive forms of conducting classes are widely used in the educational process (business and role-playing "games", practical exercises in the form of "brainstorming. The proportion of classes conducted in interactive forms is at least 20% of classroom lessons Independent work of students implies preparation for practical classes and includes test control of the initial and final level of knowledge, answers to control questions on the topics of practical classes, solving situational problems. At the end of the discipline, students undergo clinical practice. and is performed within the hours allotted for its study (in the CDS section). Each student is provided with access to the library funds of the Academy and

the department. For each section of the practice, guidelines for students and guidelines for teachers have been developed. Tactics contribute to the formation of professional skills (abilities). The student's work in a group forms a sense of teamwork and sociability. Teaching students helps them to develop the skills of communicating with patients, taking into account the ethical and deontological characteristics of pathology in patients. Independent work with patients contributes to the formation of professional behavior, accuracy, and discipline. The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral questioning during classes, when solving typical situational tasks and answering test tasks.

11. The list of information technologies used in the implementation of the educational process in practice.

The main requirement for educational technologies currently used to teach students the course is the widespread use of active and interactive forms of conducting classes, including independent work of students with patients, the teacher's analysis of specific clinical situations that students encounter during the supervision of patients, computer simulations, business and role-playing "games", various forms of programmed control of students' knowledge, etc. In accordance with the requirements of the Federal State Educational Standard of Higher Education, the proportion of classes conducted in interactive forms should be at least 10 % of the classroom time. Examples of interactive forms and methods of conducting classes at the department are business and role-playing "games", practical exercises in the form of a "court session", various forms of programmed test control of students' knowledge.

12. Description of the material and technical base required for the implementation of the educational process in practice.

As a material and technical base, the Department of Phthisiopulmonology is carried out on the basis of GBUZ RKTsFP MH RNO-ALANIA.

No.	Name of equipment	amount	Technical state - yanie
1	2	3	4
Special equipment			
1	Multimedia Installation: Lenovo IdePad B 5070 laptop Viewsonic PRO 8500 multimedia projector		In working order
2.	Negatoscope	1	In working order
3.	A set of MM presentations for all sections	6	Satisfactory / working
4	Posters	7	Satisfactory / working

5	Blackboard	1	Satisfactory / working.
6.	X-ray set	25 pcs	Satisfactory / working
Tables			
7.	Set of tables	3	Satisfactory / working
Dummies			
8.	Lungs and mediastinum	1	Satisfactory

13. Conducting educational activities using e-learning and distance learning technologies
 In the context of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow full-time training, it is possible to study this discipline or part of it using e-learning and distance educational technologies.

Teaching the discipline in the above situations will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various tasks. When conducting training sessions, monitoring progress, as well as intermediate certification of students, platforms of the electronic information and educational environment of the academy and / or other e-learning systems recommended for use in the academy, such as Moodle, Zoom, Webinar, etc., can be used.

Lectures can be presented in the form of audio, video files, "live lectures", etc. Conducting seminars and workshops is possible on-line in both synchronous and asynchronous modes. Seminars can be held in the form of web conferences.