

ЛД-21 ИИ

**Federal state budgetary educational institution higher education
"NORTH-OSSETIAN STATE MEDICAL ACADEMY"
Ministry of Health of the Russian Federation**

APPROVED

Rector of FGBOU VO SOGMA
Ministry of Health of Russia

«17» April 2024 year

WORKING PROGRAM OF DISCIPLINE

« Occupational Diseases»

the main professional educational program of higher education - the specialty program in the specialty
31.05.01 General medicine, approved on 17.04.2024

Form of instruction _____ direct _____

The period for Basic Vocational Education Programme

for Higher Education _____ 6 years _____

Department of Internal Diseases № 2

Vladikavkaz, 2024

The programme of practice is based on:

1. The Federal State Educational Standard for Higher Education in the specialty 31.05.01 General medicine, approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988.

The curriculum of OBOP VO in the specialty 31.05.01 Medicine

ЛД-21-01-21ИИ

ЛД-21-02-22ИИ

ЛД-21-03-23ИИ

ЛД-21-04-24ИИ, approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia on April 17, 2024, protocol No. 6.

The working programme of the discipline was approved at the meeting of the Department of Internal Medicine on 25 March 2024, protocol №. 8

The working programme of the discipline was approved at the meeting of the Central Coordination Educational and Methodological Council of "02" April 2024, protocol № 4.

The working programme of the discipline has been approved by the Academic Council of the Federal State Budgetary Educational Establishment of Higher Education NOSMA of the Ministry of Health of Russia on April, 17, 2024, protocol № 6.

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Content of the work programme

1. name of the discipline;
2. list of planned learning outcomes of the discipline, correlated with the planned outcomes of the educational programme;
3. indication of the place of the discipline in the structure of the educational programme;
4. volume of discipline in credit units with indication of number of academic or astronomical hours assigned for contact work of students with instructor (by types of classes) and for independent work of students;
5. content of discipline structured by topics (sections) with indication of number of academic or astronomical hours and types of classes;
6. list of teaching materials for independent work of students in the discipline;
7. fund of grading tools for intermediate attestation of students of the course;
8. list of basic and additional educational literature necessary for mastering the discipline;
9. the list of resources of information and telecommunication network "Internet" (hereinafter referred to as "Internet") necessary for mastering the discipline;
10. methodical instructions for students on mastering the course;
11. list of information technologies used in the educational process of the discipline including the list of software and information references systems (if necessary);
12. description of material and technical basis necessary for the educational process of the discipline.
13. Introduction of educational activities using e-learning and distance learning technologies

2. list of planned learning outcomes of the discipline, correlated with the planned outcomes of the educational programme

№	Competence number/index	Content of the competence (or part of it)	Topic of the lesson (section)	Indicators of competence achievement	Learning outcomes		
					Know	Know how to	Own
1	2	3	4	5	6	7	8
1	GPC-4	Is able to use medical devices as stipulated in the medical care procedure and to carry out examinations of the patient in order to establish the diagnosis	Occupational diseases of dust etiology. Occupational diseases caused by exposure to physical factors of the working environment. Occupational diseases caused by exposure to chemical factors of the working environment.	ID-1 GPC-4 Can draw up a plan for laboratory and instrumental diagnosis. ID-2 GPC -4 Knows the algorithms for the clinical examination of a patient. ID-3 GPC -4 Knows the algorithm of application of medical devices, stipulated by the order of rendering medical assistance.	Principles of use and interpretation of the results of measurements and examinations using medical devices specified in the procedures for the provision of medical care to the adult population in the "therapy" field (stetho-phonendoscope, tonometer).	Use the medical devices specified in the procedure for medical care for adults in the therapy field (stetho-phonendoscope, tonometer)	Blood pressure measurement technique using a tonometer, heart rate and pulse counting technique; heart and lung auscultation technique using a stethophonendoscope
	GPC-7.	Able to prescribe treatment and monitor its effectiveness and safety	Occupational diseases of dust etiology. Occupational diseases caused by exposure to physical factors of the working environment. Occupational diseases caused by exposure to chemical factors of the working environment.	ID-1 GPC -7 provides effective, safe therapy based on the clinical guidelines of the Russian Ministry of Health	clinical and pharmacological characteristics of the main groups of medicines and rational choice of specific medicines in the treatment of the main pathological syndromes	Develop a treatment plan tailored to the patient's course of illness, and select and prescribe medication	The main medical treatment measures for pathological conditions in therapy that require inpatient care are
	PC -2	Examination of the	Occupational diseases	ED-1 PC-2 Gathers	clinical presentation;	determine the	Skills: direct

		<p>patient in order to establish a diagnosis</p>	<p>of dust etiology. -Occupational diseases caused by exposure to physical factors of the working environment. -Occupational diseases caused by exposure to chemical factors of the working environment.</p>	<p>and analyses the patient's history and complaints and analyses the information obtained ID-2 PC-2 Carries out full physical examination (examination, palpation, percussion, auscultation) and interprets the results IIP-3 PC-2 Justifies the necessity and extent of laboratory examination of the patient ID-4 PC-2 Justifies the necessity and scope of instrumental examination of the patient Diseases of the pancreas. -Thyroid diseases. -Diseases of adrenal glands. -ID-5 PC-2 Justifies the necessity of referring the patient for consultation to specialists. ID-6 PC-2 Analyses the results of examination of the patient, substantiates and plans additional examinations, if necessary</p>	<p>methods of direct examination of the patient, laboratory and instrumental diagnosis, morphological analysis of biopsy, operative and sectional material, academic case history chart.</p>	<p>patient's status: collect anamnesis, interview the patient and/or his/her relatives, carry out physical examination of the patient, assess the patient's state Willingness to collect and analyse the patient's complaints, anamnesis, examination, laboratory, instrumental, pathological-anatomical and other examinations to recognise or establish the presence or PC-5 7 of the patient and decide on the need for medical aid; make a preliminary diagnosis, set the scope for additional examinations, interrogate the patient</p>	<p>examination of the patient, interpretation of the results of laboratory and instrumental examinations, morphological analysis of biopsy, surgical and sectional material, writing medical history and outpatient records</p>
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				<p>ID-7 PC-2 Interprets the results of information collection on the patient's illness</p> <p>ID-8 PC-2 Interprets the data received during the laboratory examination of the patient</p> <p>ID-9 PC-2 Interprets data obtained during instrumental examination</p>			
	PC -3	<p>Occupational diseases of dust etiology.</p> <p>-Occupational diseases caused by exposure to physical factors of the working environment.</p> <p>-Occupational diseases caused by exposure to chemical factors of the working environment.</p>	<p>ID-1 PC-3 Draws up a treatment plan for the disease and condition of the patient, taking into account the diagnosis, age of the patient, clinical picture of the disease in accordance with the current procedures of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>ID-2 PC-3 Prescribes medicines, medical devices and medical nutrition in accordance with the diagnosis, age</p>	<p>The main types of medicines used in the treatment of occupational diseases of dust etiology</p> <p>Basic medicines, their international non-proprietary names, rules of combination of medicines with each other;</p> <p>rules of prescribing and administering medicines;</p>	<p>Prescribe appropriate drug therapy according to the diagnosis;</p> <p>Choose the best treatment option, prescribe medication therapy taking into account the pharmacokinetics and pharmacodynamics of the medication, prevent unwanted side-effects and write prescriptions (taking into account social rights to reimbursed medication);</p>	<p>skills in prescribing drug therapy according to the diagnosis;</p>	

				<p>and clinical picture of the disease in accordance with the current procedures of health care, clinical guidelines (treatment protocols) for the provision of medical care in compliance with the standards of medical care</p> <p>ID-3 PC-3 Prescribe non-medicinal therapy with respect to the diagnosis, age and clinical picture of the disease in accordance with the current procedures of health care, clinical guidelines (treatment protocols) for the provision of medical care in compliance with the standards of medical care</p>				
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3. The place of the discipline in the structure of the educational program

The discipline " **Occupational Diseases** " refers to the basic part of the program of Block 1 of FSES of Higher Education specialty 31.05.01 Medical Business.

4. Scope of the discipline

№ №	Type of work	Total credits	Total hours	Semesters	
				7	
				hours	
1	2	3	4	5	
1	Contact work of students with Total contact with the teacher, including:	-	54	54	
2	Lectures (L)	-	18	18	
3	Clinical practitioners (CP)	-	36	36	
6	Independent student work (ISW))	-	18	18	
7	Type of interim assessment	credit (H)		credit (H)	credit (H)
		examination (E)			
8	TOTAL: Total workload labour input	hours	72	72	72
		ЗЕТ	2		2

5. Content of the discipline

№/п	№ семестра	Наименование темы (раздела) дисциплины	Виды учебной деятельности (в часах)				Формы текущего контроля успеваемости
			Л	ПЗ	СРС	всего	
1	2	3	4	5	6	7	8
1	7	Introduction to the clinic of occupational diseases. Historical stages in the development of occupational diseases. Deontological aspects. Pre-examinations and periodic examinations. Pneumoconiosis. Silicosis. Silicosis.	2	4,5	3	9,5	S , TK, SZ, TOR
2	7	Chronic dust bronchitis. Exogenous allergic alveolitis.	2	4,5	3	9,5	S , TK, SZ, TOR
3	7	Berylliosis. Occupational bronchial asthma.	2	4,5	3	9,5	S , TK, SZ, TOR
4	7	Lead intoxication. Tetraethyl lead intoxication.	2	-	3	5	S , TK, SZ, TOR
5	7	Occupational diseases of medical workers. Intoxication by aromatic hydrocarbons. Intoxication by amino and nitro compounds. manganese intoxication. Mercury intoxication.	2	4,5	3	9,5	S , TK, SZ, TOR

6	7	Vibration disease:the effects of local and general vibration on the human body. Functional methods of investigation. Peripheral hemodynamic studies.	2	4,5	3	9,5	S , TK, SZ, TOR
7	7	Modular session	2	4,5	3	9,5	S , TK, SZ, TOR
TOTAL:			18	36	18	72	

Note: S - interview, TK - tests, SZ - case studies, TOR - learning tasks

6. List of teaching materials for students' independent work in the discipline

№	Semesters	Name of educational and methodological development
1	8	I.Z. Gioeva, A.A. Ktsoeva
2	7,8	Teaching materials for gastroenterology in the general therapy course.
3	7,8	M. Tebloev, Z.T. Tsabolova, A.B. Kusova, A.A. Ktsoeva, I.Z. Gioeva,. I. Zaukaeva.
4	7	Scheme of a case history in a therapeutic department.
5	7	Z.T. Tzabolova, I.Z. Gioeva,
6	7	Chronic pulmonary heart.
7	8	M.M. Tebloev, A.B. Kusova, A.A. Ktsoeva,
8	8	Methodological Development of Cardiology in Faculty Therapy Course.
9	8	I.Z. Gioeva, A.A. Ktsoeva, A.B. Kusova.
		Methodological developments in pulmonology on the course of faculty therapy.
12	7,8	M. M. Tebloev, Z.T. Tsabolova, A.A. Ktsoeva.
13	8	Pneumonia.
14	8	M.M. Tebloev, Z.T. Tsabolova, A.B. Kusova, A.A. Ktsoeva, I.Z. Gioeva,. I.Z. Gioeva, I.A. Zhukaeva Peptic ulcer in the stomach and duodenum.

7. Assessment tools for intermediate certification of students in the discipline

№	List of competences No.	Semester	Value	Assessment criterion	Scale of assessment	Name WCF
1	2	3	4	5	6	7
1	GPC-4 GPC-7 PC-2 PC-3	7	see the standard for assessing the quality of education, approved by Order of the Federal State Budgetary Educational Institution of Higher Professional Education NOSMA of the Russian Ministry of Health from 10.07.2018 No. 264/o	see the standard for assessing the quality of education, approved by Order of the Federal State Budgetary Educational Institution of Higher Professional Education NOSMA of the Russian Ministry of Health from 10.07.2018 No. 264/o	see the standard for assessing the quality of education, approved by Order of the Federal State Budgetary Educational Institution of Higher Professional Education NOSMA of the Russian Ministry of Health from 10.07.2018 No. 264/o	Examination tickets for credit; Test questions; Control Tasks

8.List of basic and additional academic literature required to master the discipline

№	Name Name of	Author(s) of publication	Year, place	Number of copies		EBS/Reference to EBS
				nt library	in the department	
1	2	3	4	7	8	9
Basic literature						
2.	Internal Medicine: Textbook	B. I. Makolkin, S. I. Ovcharenko, V. A. Sulimov. -	Moscow: GEOTAR	99	-	"Student Advisor http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html
3.	Internal Medicine: Textbook	ed. V. S. Moiseev.	Moscow: GEOTAR	51	-	
4.	Internal medicine in 2 vols : textbook. T.1.		Moscow: GEOTAR	51	-	-
5.	Internal diseases in 2 vols : textbook. T.2	Ed. V. S. Moiseev.	M. : GEOTAR	-	-	"Student Advisor http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html

6.	Internal Medicine: Textbook		M. : GEOTAR	-	-	"Student Advisor http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html
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Further reading

1.	Respiratory Pathology.	Under the editorship of Acad. RAEN, Prof. V.S. Paukov.	M.: Litterra, 2013.	-	-	"Student Advisor http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html
2.	Clinical pharmacology and pharmacotherapy in real-life medical practice: a masterclass: textbook	B. I. Petrov. -	M. : GEOTAR-Media, 2014.	-	-	"Student Advisor http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html
3.		Ж. D. Kobalava, S.V. Moiseev, V.S. Moiseev ; Ed. by V.S. Moiseev. S. Moiseev.	M. : GEOTAR-Media, 2014.	-	-	"Student Advisor http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html
4.	Basics of Internal Medicine	O. O. Basieva,	Vladikavkaz, 2012.		4	-
5.	Methodological developments in Gastroenterology in the course of Faculty Therapy.	I.M. Belikova.	Vladikavkaz, 2012.		3	-
6.	Training manual for cardiology in the course of internal medicine.	E. A. Shavlokhova.	Vladikavkaz, 2012.		4	-
7.	Methodological developments in nephrology on the	Z.T. Tsabolova.	Vladikavkaz, 2012		4	-

course of departmental therapy.					
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9. List of resources of information and telecommunication network "Internet", necessary for mastering the discipline

1. "Student's Consultant"

<http://www.studmedlib.ru/ru/book/ISBN9785970425763.html>

Standards of medical care: <http://www.rspor.ru/index.php?mod1=standarts3&mod2=db1>

- State Register of Medicines: <http://www.drugreg.ru/Bases/WebReestrQuery.asp>

- Russian Encyclopaedia of Medicines (RLS): <http://www.rlsnet.ru>

- Handbook Vidal. Medicines in Russia: <http://www.vidal.ru>

-National Internet Society of Internal Medicine Specialists-<http://internist.ru>

-First Medical Channel-<http://1med.tv>

- Interregional Society of Evidence-based Medicine Specialists. <http://www.osdm.org/index.php>

-Russian Society of Cardiologists- <http://www.scardio.ru/>

-Russian Scientific Medical Society of Therapists- <http://www.rnmot.ru/>

Electronic versions of journals:

"Consilium medicum" - <http://www.consilium-medicum.com/media/consilium>

"Bulletin of Evidence-based Medicine"- <http://www.evidence-update.ru/>

"Physician. -<http://www.rusvrach.ru/journals/vrach>

"Evidence-based Cardiology - <http://www.mediasphera.ru/journals/dokcard>

"Pulmonology - <http://www.consilium-medicum.com/media/pulmo>

"Russian Journal of Gastroenterology, Hepatology, Coloproctology - <http://www.m-vesti.ru/rggk/rggk.html>

"Russian Medical Journal - <http://www.rmj.ru>

"Handbook of the Polyclinic Doctor - <http://www.consilium-medicum.com/media/refer>

"The Difficult Patient" - <http://www.t-pacient.ru>

"Pharmateca" - <http://www.pharmateca.ru>

10. Methodological instructions for students on mastering the discipline

The course consists of 160 hours of lectures (44 hours), 116 hours of practical work and 92 hours of self-study.

The main study time is allocated to practical work on methods of diagnosing diseases of internal organs.

In the study of academic discipline faculty therapy necessary to use the basic knowledge of anatomy, normal and pathological physiology, propaedeutics of internal diseases, pharmacology, and master the practical skills necessary in the activities of a doctor-therapist.

Practical exercises are conducted in the form of oral interview, solution of test tasks, demonstration of patients, and use of visual aids, solution of situational tasks, analysis of clinical patients.

In accordance with the requirements of FSES HE in the educational process are widely used active and interactive forms of classes (classes-conferences, case-methods). The share of classes held in interactive forms is not less than 20% of the classroom hours.

Independent work of students implies preparation for practical classes and includes preparation for current and interim control, writing medical history, independent extracurricular works.

Work with academic literature is considered as a type of academic work on the discipline of internal diseases and is carried out within the hours allocated to its study (in the section SRS).

Each student is provided with access to the library funds of the SOGMA and the department.

Methodological recommendations for students and methodological guidelines for teachers have been developed for each section of the discipline. During the study of the discipline, students independently carry out the examination of the patient, draw up a case history and submit it for protection.

Writing a case history contributes to the development of professional skills.

Student's work in a group forms a sense of teamwork and communicativeness.

Teaching the students develops their skills in communicating with the patient, taking into account ethical and deontological features of pathology and patients. Independent work with patients promotes deontological behaviour, neatness and discipline.

The initial level of knowledge of students is determined by testing, the current control of assimilation of the subject is determined by oral questioning during classes, during clinical examinations, when solving typical situational tasks and answers to test tasks.

At the end of the study of the discipline of faculty therapy examination control of knowledge is carried out using test control, checking practical skills, solving situational problems and oral interview on the tickets.

Questions on the discipline of Faculty Therapy are included in the Final State Attestation of graduates.

11. The list of information technologies used in the educational process at the course

Microsoft Office

PowerPoint;

Internet Exploer

12 Description of the material and technical basis necessary for the implementation of the educational process in the discipline

The material and technical base of the Department is presented:

KH NOSMA, State Budgetary Educational Institution of the Ministry of Health of the Republic of North Ossetia-Alania.

The general area of the teaching-laboratory base of KB SOGMA is 71m², including training rooms - 33m², auxiliary - 6m², assistant - 8m², the office of the head of the department - 12m². The general area of educational-laboratory base of SSE RDE RNO-Alania - 12 m². Equipped study rooms (laboratories): study rooms in quantity 3 (a condition satisfactory), desks 25 chairs 80, (a condition satisfactory). Wardrobes-10 pcs, desks-7 pcs, cupboard-6 pcs, office chair-4 pcs, metal hanger-1 pcs.

№	Name of equipment	Quantity	Technical condition
1	2	3	4
Special equipment			
1.	Computers	2	1 is in satisfactory condition,
2.	Monobook	2	1 needs to be replaced
3.	Notebook	3	2 condition satisfactory,
4.	Projector	4	2 condition satisfactory
5.	Copy machine	4	1 needs to be replaced
6.	ECG machine	1	1 condition satisfactory
7.	Variable 1-channel pipette	1	3 condition satisfactory
8.	Display on tripod	1	1 in need of repair
9.	Infrared thermometer	1	Condition satisfactory
Phantoms			
10.	-		
Phantoms			
11.	-		
Tables			
12.	Thematic tables	20	Condition satisfactory

13. Conducting educational activities using e-learning and distance learning technologies.

In the conditions of the introduction of restrictive measures (quarantine) associated with an adverse epidemiological situation, the threat of spread of a new coronavirus infection and other force majeure events that do not allow to conduct training sessions in person, it is possible to study this discipline or its part using e-learning and distance learning technologies.

Teaching the discipline in the above situations will be carried out through the development of an e-learning course with access to video lectures and interactive course materials: presentations, articles, supplementary materials, tests and various assignments. The platforms of 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 in conducting training sessions, current progress control as well as intermediate certification of students. Lectures can be presented in the form of audio-, video-files, "live lectures" etc. Seminars and tutorials may be held online both in synchronous and asynchronous mode. Seminars can be conducted in the form of web conferences.