Federal State Budgetary Educational Institution higher education "NORTH OSSETIAN STATE MEDICAL ACADEMY" Ministry of Health of the Russian Federation

APPROVED

OF PANSE HE Rector of FGBOU VO SOGMA

OF PANSE HE HE STORY

Ministry of Health of Russia

O.V. Remizov

May 24, 2023

THE WORKING PROGRAM OF THE DISCIPLINE

"ENDOCRINOLOGY"

main professional educational program of higher education - specialty program in the specialty 31.05.01 Medicine, approved on 24.05.2023

Form of study	full-time	
The term for the development of OBOP VO _	6	
Department of Internal Medicine № 2		

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

- 1. Federal State Educational Standard of Higher Education in the specialty 31.05.0 Medicine approved by the Ministry of Education and Science of the Russian Federation of August 12, 2020. №. 988
- 2. The curriculum of OBOP VO in the specialty 31.05.01 Medicine

ЛД-21-01-21ИН

ЛД-21-02-22ИН

ЛД-21-03-23ИH, approved by the Academic Council of the Federal State Budgetar Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia o May 24, 2023, protocol №. {

- 3. The work program of the discipline was approved at a meeting of the Department of International Medicine on March 20, 2023, protocol No. 8.
- 4. The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council dated May 23, 2023, protocol №. 5
- 5. The work program of the discipline was approved by the Academic Council of the Federa State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated May 24, 2023, protocol №. 8

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Content of the work program

- 1. name of the discipline;
- 2. a list of planned learning outcomes in the discipline, correlated with the planned results of mastering the educational program;
- 3. an indication of the place of discipline in the structure of the educational program;
- 4. the amount of discipline in credit units, indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training) and for independent work of students;
- 5. the content of the discipline, structured by topics (sections) with an indication of the number of academic or astronomical hours allocated for them and types of training;
- 6. a list of educational and methodological support for independent work of students in the discipline;
- 7. fund of assessment tools for intermediate certification of students in the discipline;
- 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 on the development of the discipline;
- 11. a list of information technologies used in the implementation of the educational process in the discipline, 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. Introduction of educational activities using e-learning and distance learning technologies.

2. The list of planned learning outcomes in the discipline and the results of mastering the educational program

P /	Competence	Content of	ontent of Tania of the			Development results	
p No.	number / index	competence (or part of it)	Topic of the lesson (section)	Competence achievement indicators	Know	Be able to	Own
1	2	3	4	5	6	7	8
	OPK-4.	Able to use medical devices provided for by the procedure for the provision of medical care, as well as conduct examinations of the patient in order to establish a diagnosis	Diseases of the pancreasDiseases of the thyroid gland Diseases of the adrenal glandsDiseases of the hypathalamic-pituitary system.	ID-1 OPK-4 Is able to draw up a plan for 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.	principles of use and interpretation of the results of measurements and research with the use of medical devices, provided for by the procedures for the provision of medical care to the adult population in the "therapy" profile (stethophonendoscope, tonometer).	use medical devices provided for by the procedure for providing medical care to the adult population in the "therapy" profile (stethophonendoscope, tonometer)	a method for measuring blood pressure using a tonometer, a method for calculating heart rate and pulse; method of auscultation of the heart and lungs using a stethophonendoscope
	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems Diseases of the pancreas. -Diseases of the thyroid gland. - Diseases of the adrenal glands. -Diseases of the pancreas. -Diseases of the adrenal glands. -Diseases of the adrenal glands.		ID-1 OPK-5 Owns the algorithm of clinical, laboratory and functional diagnostics in solving professional problems. ID-2 OPK-5 Evaluates the	- the main indicators of the morphological and functional state of the population, - methods and rules of measurement and methods of assessment	-use and apply in practice all known methods for assessing the morphological and functional state of the human body	-methods for assessing the main morphological and functional indicators of the adult population and children to establish the existing disorders of the processes of growth and	

		hypathalamic- pituitary system.	results of clinical, laboratory and functional diagnostics in solving professional problems. ID-3 OPK-5 Determines morphofunctional, physiological states and pathological processes of the human body			development
OPK-7.	Able to prescribe treatment and monitor its effectiveness and safety	Diseases of the pancreasDiseases of the thyroid gland Diseases of the adrenal glandsDiseases of the hypathalamic-pituitary system.	ID-1 OPK-7 provides effective, safe therapy based on the clinical guidelines of the Ministry of Health of Russia	clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of major pathological syndromes	develop a treatment plan for the patient, taking into account the course of the disease, select and prescribe drug therapy	The main therapeutic measures for the provision of medical care for pathological conditions in therapy requiring inpatient care
PC-2	Examination of the patient in order to establish a diagnosis	Diseases of the pancreas. -Diseases of the thyroid gland. - Diseases of	ID-1 PC-2 Collects complaints, anamnesis of life and illness of the patient and analyzes the information received	clinical picture; methods of direct examination of the patient, laboratory and instrumental diagnostics,	determine the patient's status: collect anamnesis, interview the patient and / or his relatives, conduct a physical examination	skills: direct examination of the patient, the skills of interpreting the results of laboratory and instrumental studies,

the adrenal glandsDiseases of the hypathalamic-pituitary system.	ID-2 PC-2 Conducts a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interprets its results ID-3 PC-2 Substantiates the need and scope of laboratory examination of the patient ID-4 PC-2 Substantiates the need and scope of instrumental examination of the patient Diseases of the pancreas. -Diseases of the thyroid gland. - Diseases of the adrenal glands.	morphological analysis of biopsy, surgical and sectional material, schemes of the academic history of the disease.	of the patient, assess the state of Readiness to collect and analyze patient complaints, data from his anamnesis, examination results, laboratory, instrumental, pathological and anatomical and other studies in order to recognizing the condition or establishing the fact of the presence or PC-5 7 of the patient and decide on the need to provide him with medical care; make a preliminary diagnosis, outline the scope of additional studies, interpret the results of laboratory and instrumental research.	morphological analysis of biopsy, surgical and sectional material, writing a medical history and an outpatient card
	Diseases of the pancreasDiseases of the		medical care; make a preliminary diagnosis, outline the scope of additional studies,	
	adrenal glandsDiseases of the hypathalamic-		_	
	system.ID-5 PC-2 Substantiates the need to refer the patient for		analysis of biopsy, surgical and sectional material, write a medical record of an	
	consultations to specialist doctors		outpatient and inpatient	

			ID-6 PC-2 Analyzes the results of the patient's examination, justifies and plans the volume of additional studies if necessary ID-7 PC-2 Interprets the results of collecting information about the patient's disease ID-8 PC-2 Interprets the data obtained during laboratory examination of the patient ID-9 PK-2 Interprets the data obtained during instrumental examination of the patient			
6.	PC-3	Diseases of the pancreasDiseases of the thyroid gland Diseases of the adrenal glandsDiseases of the hypathalamic-pituitary system.	 Occupational diseases of dust etiology. Occupational diseases caused by the influence of physical factors of the working environment. Occupational diseases caused by 	ID-1 PC-3 Draws up a plan for the treatment of the disease and the patient's condition, taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on	- the main types of drugs used in the treatment of occupational diseases of dust etiology - the main drugs, their international non-proprietary name, the rules for combining drugs with each other; - the rules for writing prescriptions and taking medications;	- prescribe appropriate drug therapy according to the diagnosis; - choose the best treatment option, prescribe drug therapy, taking into account the pharmacokinetics and pharmacodynamics of drugs, preventing their unwanted side

	.1	cc .
exposure to	the provision of medical	effects, write
chemical factors of	care, taking into account	prescriptions (taking
the working	the standards of medical	into account social
•	care	rights to subsidized
environment.	ID-2 PC-3 Prescribes	drugs);
	drugs, medical devices	drugs),
	and medical nutrition,	
	taking into account the	
	diagnosis, age and	
	clinical picture of the	
	disease in accordance	
	with the current	
	procedures for the	
	provision of medical	
	care, clinical	
	recommendations	
	(treatment protocols) on	
	the provision of medical	
	care, taking into account	
	the standards of medical	
	care	
	ID-3 PC-3 Prescribes	
	non-drug treatment	
	taking into account the	
	diagnosis, age and	
	clinical picture of the	
	disease in accordance	
	with the current	
	procedures for the	
	provision of medical	
	care, clinical	
	recommendations	
	(treatment protocols) on	
	the provision of medical	
	care, taking into account	
	the standards of medical	
	care	

3. Place of discipline in the structure of the educational program

The academic discipline Occupational diseases belongs to the compulsory part of Block 1 of the Federal State Educational Standard of Higher Education in the specialty 31.05.01 General Medicine

4. Discipline scope

No. No.			Total		Semester
р/р	Type of we	ork	credit	Total hours	nine
P'P	Type of W		units		hours
1	2		3	4	5
1	Contact work of students teacher (total), including:		-	48	48
2	Lectures (L)		-	14	14
3	Clinical Practices (CL)		-	34	34
4	Student independent wor	k (IWS)	-	24	24
5	Intermediate type	credit (C)	-	zach	zach
	appraisals	exam (E)	-	-	-
6	TOTAL: General	hours		72	72
	labor intensity	ZET	2		2

5. Content of the discipline

No./n	Semester number The name of the topic (section) of the discipline				Types of educational activities (in hours)				
		-	L	PZ	CPC	Total	progress		
1	2	3	4	5	6	7	8		
1	IX	Etiology, pathogenesis, classification, clinic of diabetes mellitus.	2	5	3.5	10.5	С, Т3, С3, У3		
2	IX	Diagnostics, treatment of diabetes mellitus	2	5	3.5	10.5	С, Т3, С3, У3		
3	IX	Emergencies in Diabetology	2	5	3.5	9.5	С, Т3, С3, У3		
4	IX	Diseases of the thyroid gland. Diffuse toxic shock. Subacute thyroiditis. Autoimmune thyroiditis.	4	5	3.5	12.5	С, Т3, С3, У3		
5	IX	Diseases of the adrenal glands. Diseases of the adrenal cortex and medulla.	2	5	3.5	10.5	С, Т3, С3, У3		
6	Diseases of the hypothalamic-pituitary system. Obesity.		2	5	3	10	С, Т3, С3, У3		
7	IX	Modular lesson.		5	3.5	8.5	С, Т3, С3, У3		
TOTA	L:		14	34	24	72			

Note: C - interview, TK - test tasks, SZ - situational tasks, UZ - educational tasks

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

No./n	Semester number	Name of educational and methodological development
1	IX	Tsabolova Z.T. A.B. Kusova

	I	
		Medical history writing scheme (endocrinology)
2	IX	About Z.T. Tsabolova, A.B. Kusova
	IA	Thyroid disease
3	IX	Z.T. Tsabolova, A.B. Kusova
3	IA.	Disease of the adrenal and pituitary glands
4	IX	Z. T. Tsabolova, A.B. Kusova
4	IA	Acromegaly
5	IX	Z. T. Tsabolova, A.B. Kusova
3	IA.	EMERGENCY CONDITIONS IN ENDOCRINOLOGY
6	IX	Z. T. Tsabolova, A.B. Kusova
0	IA.	HYPOTHYROSIS SYNDROME
7	IX	Z. T. Tsabolova, A.B. Kusova
7	IX	COLLECTION OF PROBLEMS AND TESTS ON ENDOCRINOLOGY
0	IV	Z. T. Tsabolova, A.B. Kusova
8	IX	Diffuse toxic goiter
9	IV	Z. T. Tsabolova, A.B. Kusova
9	IX	Diabetes
10	IV	Z. T. Tsabolova, A.B. Kusova
10	IX	Hyperprolactinemia
1.1	IV	Z. T. Tsabolova, A.B. Kusova
11	IX	Adrenal insufficiency
		Z. T. Tsabolova, A.B. Kusova
12	IX	Methodical recommendations for the implementation of independent extracurricular work
		of students in the discipline "Endocrinology"
	•	

7. Fund of assessment tools for intermediate certification of students in the discipline

No./n	List of competencies	No. semester	Indicator (s) evaluating	Evaluation criterion (s)	Grading scale	Name FOS
1	2	3	4	5	6	7
1	OPK-4 OPK-5 OPK-7 PC-2 PC-3	IX	cm. standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated 10.07.2018. No. 264 / o	cm. standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated 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 Education SOGMA of the Ministry of Health of Russia dated 10.07.2018. No. 264 / o	Exam tickets for credit; Test tasks; Control tasks

8. The list of basic and additional educational literature necessary for mastering the discipline

			Year, place of	Number	of copies	EBS name / Link in EBS
	Name	Authors)	publication	in library	at the department	
1	2	3	4	5	6	7
		Main lite	rature			
1	Endocrinology: textbook	I. I. Dedov, G. A. Melnichenko, V. V. Fadeev.	Media, 2013	211	-	"Student advisor" http://www.studmedlib.ru/book/ISBN9785970425351.html
2.	Diabetes mellitus: a study guide	O. M. Smirnova and others	M .: GEOTAR- Media, 2011			
		additional li	terature			
1.	Endocrinology: national guidelines	ed. I. I. Dedov	M.: GEOTAR- Media, 2008 1072 p.	10	-	
2.	Diseases of the thyroid gland: textbook. manual for independent work of 4th year students of medical and preventive medicine and 6th year of pediatric faculties / comp.	OO Zangieva [and others].	Vladikavkaz: [b. and.], 2007 49 p.	78	25	
3.	Diabetes mellitus: study guide. allowance for independent work of a 4th year student of medical and preventive medicine and 6th year of pediatric faculties	OO Zangieva [and others].	Vladikavkaz: [b. and.], 2008 84 p.	39	15	

4.	Visual endocrinology:	ed. G.A.	M.: GEOTAR-	8	-	
	trans. from English /	Melnichenko	Media, 2008			
		2nd ed.	120 p.			
5.	Endocrine	A. V. Dreval	M.: GEOTAR-	1	-	
	syndromes.		Media, 2014			
	Diagnostics and		416 р 1 сору.			
	treatment [Text]					
6.	Emergency	Mkrtumyan	Series "Library of a	-	-	"Student advisor"
	endocrinology: a	A.M., Nelaeva	specialist doctor" -			http://www.studmedlib.ru/book/ISBN9785970418369.html
	textbook.	A.A.	2010 128 s			
7.	Acromegaly and	Ametov A.S.,	Ametov A.S.,	-	-	
	gigantism.	Doskina E.V.	Doskina E.V. 2010			
			152 p.			

СОГЛАСОВАНО Зав. библиотекой

Of B. Rogmada

9. The list of resources of the information and telecommunication network "Internet" necessary for mastering the discipline

1 "Student advisor"

http://www.studmedlib.ru/ru/book/ISBN9785970425351.html

http://www.studmedlib.ru/ru/book/970406779V0009.html

http://www.studmedlib.ru/ru/book/ISBN9785970429594.html

http://www.studmedlib.ru/ru/book/ISBN9785970418369.html

http://www.studmedlib.ru/ru/book/ISBN9785970412992.html

- 2. Standards of medical care: http://www.rspor.ru/index.php?mod1=standarts3&mod2=db one
- 3. State Register of Medicines: http://www.drugreg.ru/Bases/WebReestrQuery.asp
- 4. Russian Encyclopedia of Medicines (RLS): http://www.rlsnet.ru
- 5. Directory Vidal. Medicines in Russia: http://www.vidal.ru
- 6. Interregional Society of Evidence-Based Medicine Specialists.

http://www.osdm.org/index.php

7. All-Russian educational Internet program for internist doctors- https://webinar-endo.ru/

Electronic versions of magazines:

Consilium medicum - http://con-med.ru

"Attending doctor" - http://www.lvrach.ru

"Diabetes mellitus" - and http://endojournals.ru/index.php/dia "Problems of endocrinology" http://www.medlit.ru/medrus/probe.htm

"Clinical and experimental thyroidology" - http://vidar.ru/Library.asp?fid=KET

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

"Directory of an outpatient doctor" - http://con-med.ru/magazines/physician/

"Difficult patient" - http://www.t-pacient.ru

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

10. Methodical instructions for students on mastering the discipline

Training consists of contact work (48 hours), including a lecture course (14 hours) and practical exercises (34 hours), and independent work (24 hours). The main study time is allocated for practical work on methods of diagnosis and treatment of diseases of the organs of the endocrine system.

When studying the discipline of endocrinology, it is necessary to use knowledge in the field of anatomy, normal and pathological physiology, propaedeutics of internal diseases, pharmacology, and to master the practical skills necessary in the activities of a medical doctor.

Practical exercises are carried out in the form of an oral interview, solving test tasks, demonstrating patients, and using visual aids, solving situational problems, answering test tasks, analyzing clinical patients.

In accordance with the requirements of the Federal State Educational Standard of Higher Education, active and interactive forms of conducting classes (classes-conferences, case-methods) are widely used in the educational process. The proportion of classes conducted in interactive forms is 20% of classroom studies.

Independent work of students implies preparation for practical exercises and includes preparation for current and intermediate control, writing a medical history of independent extracurricular work.

Work with educational literature is considered as a type of educational work in the discipline of endocrygology 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 SOGMA and the department.

For each section of the discipline, guidelines for students and guidelines for teachers have been developed.

During the study of the discipline, students independently examine the patient, draw up a medical history and submit it for protection.

Writing an essay, educational medical history contribute to the formation of professional skills.

The student's work in a group forms a sense of teamwork and sociability.

Teaching students helps them develop the skills of communicating with the patient, taking into account the ethical and deontological characteristics of pathology and patients. Independent work with patients contributes to the formation of deontological behavior, accuracy, discipline.

At the end of the study of the discipline Endocrinology, knowledge control is carried out using test control and an oral interview on tickets.

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

Microsoft Office PowerPoint; Internet exploer

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

The material and technical base of the department is represented by: KB SOGMA, GBUZ RED of the Ministry of Health of the Republic of North Ossetia-Alania.

The total area of the educational and laboratory base of KB SOGMA is 71m², including 33m2 - study rooms m2. Equipment of training rooms (laboratories): 3 classrooms (satisfactory condition), 25 desks 80 chairs, (satisfactory condition). Wardrobes-10 pieces, tables-7 pieces, a curbstone-6 pieces, an office chair - 4 pieces, a metal hanger-1 piece.

No. / P	equipment identification	number	Technical condition
1	2	3	4
	Special equipment		
1	Computers	2	1 satisfactory condition, 1 needs replacing
2	Monoblock	2	2 satisfactory condition,
3	Notebook	3	2 satisfactory condition 1 needs replacing
4	Projector	four	The condition is satisfactory
5	Copier technology	four	3 satisfactory condition 1 needs renovation
6	ECG machine	one	The condition is satisfactory
7	Pipette 1-channel variable	one	The condition is satisfactory
8	Tripod screen	one	The condition is satisfactory
9	Infrared thermometer	one	The condition is satisfactory
	P	hantoms	

10	-							
Dummies								
11	-							
Tables								
12	Thematic tables	12	The condition is 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. the form of audio and video files, "live lectures", etc. Conducting seminars and practical classes is possible online, both in synchronous and asynchronous modes. Seminars can be held in the form of web conferences.