

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



APPROVE

Rector of FSBEI HE NOSMA  
MOH Russia

O. V. Remizov

24 May 2023

**PROGRAM OF EDUCATIONAL PRACTICE**

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

**"Socially significant endocrine diseases" (educational program, partially  
implemented in English)**

of the main professional educational program of higher education – the specialty program in the  
specialty 31.05.01 General medicine,  
approved on 24.05.2023y.

The form of training is \_\_\_\_\_ full time \_\_\_\_\_  
The term of development of MPEP HE \_\_\_\_\_ 6 \_\_\_\_\_  
Department of Internal Medicine No. 3

1. FSBEI HE NOSMA for the specialty 31.05.01 General medicine, approved by the Ministry of Education and Science of the Russian Federation "12" August 2020 No. 988

2. The curriculum of the MPEP HE in the specialty 31.05.01 01 General medicine

ЛД-21-01-21ИИ,

ЛД-21-02-22ИИ,

ЛД-21-03-23ИИ, approved by the Academic Council of the FSBEI HE NOSMA of Health of the Russian Federation on May 24, 2023, Protocol No. 8

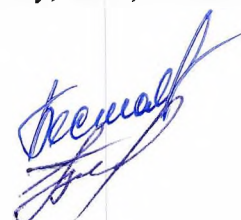
The program of training practice was approved at the meeting of the Department of Internal Medicine No. 3 of May 15, 2023, Protocol No.10

The program of training practice was approved at the meeting of the central coordinating Educational and Methodological Council of May 23, 2023, Protocol No. 5.

The program of educational practice is approved by the Academic Council FSBEI HE NOSMA of the Ministry of Health of the Russian Federation of" 24 " May, 2023, Protocol No. 8

**Developers:**

Head of the Department, Doctor of Medical Sciences  
Associate Professor, candidate of medical Sciences



D.V. Bestaev  
N.N. Burduli

**Reviewers:**

Magaev K. A.,

Candidate of Medical Sciences, chief physician of VMBHI "Polyclinic No. 1" RSO-Alania

Astakhova Z. T., Doctor of Medical Sciences, Professor,  
Head of the Department of Internal Diseases No. 4

### **Content of the work program**

1. name of the training practice;
2. the list of the planned results of training in educational practice, correlated with the planned results of the development of the educational program;
3. indication of the place of educational practice in the structure of the educational program;
4. the amount of training practice in credit units, indicating the number of academic or astronomical hours allocated for contact work of students with the teacher (by type of training sessions) and for independent work of students;
5. the content of the training practice, structured by topics (sections), indicating the number of academic or astronomical hours allocated to them and the types of training sessions;
6. the list of educational and methodological support for independent work of students in educational practice;
7. the fund of evaluation funds for conducting intermediate certification of students in educational practice;
8. the list of basic and additional educational literature necessary for the development of educational practice;
9. the list of resources of the information and telecommunications network " Internet "(hereinafter - the "Internet"), necessary for the development of educational practice;
10. methodological guidelines for students on the development of educational practice;
11. the list of information technologies used in the implementation of the educational process in educational practice, including the 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 educational practice;
13. conducting educational activities with the use of e-learning and distance learning technologies.

## 2. The list of planned results of training in educational practice and the results of the development of the educational program

№ i/i	Competence number / Index	Content of the competence (or part of it)	Topic of the lesson (section)	Indicators of competence achievement	Results of mastering		
					To know	To be able	to own
1	2	3	4	5	6	7	8
1.	EPC-4	Conduct examinations of the patient in order to establish a diagnosis	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)	<p>AI-1 EPC-4 Can make a plan for laboratory and instrumental diagnostics</p> <p>AI-2 EPC-4. Owns the algorithm of clinical examination of the patient.</p> <p>AI-3 EPC-4 Has an algorithm for the use of medical devices provided for in the procedure for providing medical care.</p>	<p>- modern methods of clinical, laboratory, and instrumental examination of patients,</p> <p>- the main pathological symptoms and syndromes in the most common diseases in outpatient practice</p>	<p>- conduct a patient survey;</p> <p>- collect complaints, medical history, life history,</p> <p>- conduct a physical examination of the patient,</p> <p>- identify the main pathological symptoms and syndromes of diseases in patients, use the algorithm for making a diagnosis taking into account the ICD,</p> <p>- evaluate the need to choose an outpatient or inpatient</p>	<p>- methods of general clinical examination of the patient</p> <p>- interpretation of the results of laboratory and instrumental diagnostic methods</p> <p>- an algorithm for making a preliminary diagnosis with subsequent referral of the patient to the appropriate specialist-an algorithm for a detailed clinical diagnosis</p>

						treatment regimen	
2.	EPC -6	It is able to provide primary health care, to ensure the organization of work and professional decision-making in emergency conditions at the pre-hospital stage.	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)	AI-2 EPC-6 Has an algorithm for providing primary health care for emergency conditions at the pre-hospital stage	- methods of emergency measures at the pre-hospital stage in case of sudden acute diseases, conditions., exacerbation of chronic diseases	perform basic diagnostic measures to identify urgent and life-threatening conditions	An algorithm for providing emergency care at the pre-hospital stage for sudden acute diseases, conditions, and exacerbation of chronic diseases
3.	EPC -7	Able to prescribe treatment and monitor its effectiveness and safety	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)	AI-1 EPC-7 Conducts effective, safe therapy based on the clinical recommendations of the Ministry of Health of the Russian Federation	the principles of therapeutic treatment in accordance with the diagnosis, the algorithm for choosing medication, non-drug therapy.	prescribe and carry out adequate therapeutic treatment in accordance with the established diagnosis, using the principles of evidence-based medicine	the method of prescribing adequate therapy in accordance with the established diagnosis
4.	EPC -8	It is able to implement and monitor the effectiveness of medical rehabilitation of the patient.	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)	AI-1 EPC-8 Knows the basics of medical rehabilitation of patients	- principles of medical rehabilitation of the patient, - features of medical rehabilitation of elderly and senile patients	-- determine the medical indications for medical rehabilitation activities - Create a rehabilitation program-	- the skills of conducting medical rehabilitation of the patient in accordance with the current procedures for providing medical care, clinical recommendations

5.	PC -2	Conducting an examination of the patient in order to establish a diagnosis	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)
----	-------	--	---

<p>AI-1 PC-2 Collects complaints, anamnesis of the patient's life and illness and analyzes the information received</p>	<p>- modern methods of clinical, laboratory, and instrumental examination of patients,</p>	<p>to conduct a survey of the patient; to collect complaints, anamnesis of the disease,</p>	<p>- methods of general clinical examination of the patient</p>
<p>I-A2 PC-2 Perform a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interprets its results</p>	<p>- - the main pathological symptoms and syndromes of socially significant endocrine diseases,</p>	<p>anamnesis of life, to conduct a physical examination of the patient, to make an entry in the medical record of the outpatient patient; to identify the main</p>	<p>- interpretation of the results of laboratory and instrumental diagnostic methods</p>
<p>AI-3 PC-2 Justifies the need and scope of laboratory examination of the patient</p>	<p>- the algorithm of diagnosis taking into account the ICD, the main diagnostic measures to identify urgent and life-threatening conditions;</p>	<p>pathological symptoms and syndromes of diseases in patients, to use the algorithm of diagnosis taking into account the ICD, to perform basic diagnostic measures to identify urgent and life-threatening</p>	<p>- an algorithm for making a preliminary diagnosis with subsequent referral of the patient to the appropriate specialist-an algorithm for a detailed clinical diagnosis</p>
<p>AI-4 PK-2 Justifies the need and scope of instrumental examination of the patient</p>			
<p>AI-5 PK-2 Justifies the need to refer the patient for consultations with specialist doctors</p>			
<p>AI-6 PK-2 Analyzes the results of the patient's examination, justifies and plans the scope of additional</p>			

				<p>studies, if necessary</p> <p>AI-7 PC-2 Interprets the results of collecting information about the patient's disease</p> <p>AI-8 PC-2 Interprets the data obtained during the laboratory examination of the patient</p> <p>AI-9 PC-2 Interprets the data obtained during the instrumental examination of the patient</p> <p>AI-11 PC-2 Performs early diagnosis of diseases of internal organs</p>		conditions;	
6.	PC -3	Prescribing treatment and monitoring its effectiveness and safety	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)	AI-1 PC-3 Draws up a treatment plan for 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 providing medical care, clinical	- algorithm for the selection of drug and non-drug therapy for socially significant endocrine diseases.	evaluate the need to choose an outpatient or inpatient treatment regimen, prescribe and conduct adequate therapeutic treatment in accordance with	- the method of prescribing adequate therapy in accordance with the diagnosis made



--	--	--	--	--

<p>recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>AI-2 PC-3</p> <p>Prescribes medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>AI-3 PC-3</p> <p>Prescribes non-drug treatment based on the diagnosis, age and clinical picture of the disease in accordance with the current</p>		<p>the diagnosis, using the principles of evidence-based medicine</p>	
--	--	---	--

				procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care			
7.	PC -4	Implementation and monitoring of the effectiveness of medical rehabilitation of the patient	Diagnosis and differential diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)	AI-1 PC-4 Determines signs of temporary disability and signs of persistent impairment of body functions caused by diseases, the consequences of injuries or defects	- issues of temporary disability, criteria for recovery and restoration of working capacity	- - use the legal guidelines for medical and labor expertise, determine the cause of temporary disability, criteria for recovery and restoration of working capacity - Identify signs of disability in a timely manner, - prepare documents for referral to the bureau of medical and social expertise	- skills of conducting medical and labor expertise in this disease
8.	PC -5	Conducting and	Diagnosis and differential	AI-3 PC-5 Conducts	- regulatory legal	- Conduct	- methods of

		<p>monitoring the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hygienic education of the population</p>	<p>diagnosis of socially significant endocrine diseases (type 2 diabetes, obesity and metabolic syndrome, thyroid diseases)</p>
--	--	---	---

<p>medical examinations of the adult population for the purpose of early detection of chronic non-communicable diseases, the main risk factors for their development</p> <p>AI-4 PC-5 Conduct dispensary monitoring of patients with identified chronic non-communicable diseases, including patients with high and very high cardiovascular risk</p> <p>AI-5 PC-5 Prescribes preventive measures to patients taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases</p>	<p>acts and other documents regulating the procedures for conducting medical examinations and dispensary observation</p> <p>- principles of dispensary monitoring of patients with socially significant endocrinological diseases and risk factors in accordance with regulatory legal acts</p> <p>- forms and methods of sanitary and educational work on the formation of a healthy lifestyle</p>	<p>medical examinations of the adult population for the purpose of early detection of socially significant endocrinological diseases, the main risk factors,</p> <p>-- develop programs for the formation of a healthy lifestyle.</p>	<p>primary and secondary prevention of diseases</p> <p>- methods of conducting medical examinations of certain groups of the adult population</p>
--	---	---	---

### 3. The place of educational practice in the structure of the educational program

The educational practice of the general medical profile (fundamentals of practical training for the professional activity of a medical doctor for the provision of primary health care) "Socially significant endocrine diseases" is an educational practice of the mandatory part of the Block 2 of the Federal State Educational Standard of Higher Education in the specialty "General medicine".

### 4. The scope of educational practice

№i/i	Type of work	Total credits	Total hours	Semester
				12
1	2	3	4	6
1.____	Contact work of students with the teacher (total), including:	1	36	36
2.____	Lectures (L)			
3.____	Clinical practical exercises (PE)		24	24
4.____	Seminars (S)	-		
5.____	Laboratory work (LW)	-		
6.____	Independent work of the student (IWS)		12	12
7.____	<b>Type of intermediate certification</b> of Examination in the practice of general medical profile (fundamentals of practical training for the professional activity of a medical doctor for the provision of primary medical and social care) (E)	1	36	36
8.____	TOTAL: Total labor intensity	of hours	36	36
		credit units	2	2

### 5. Content of the training practice

№i/i	№ semester	Name of the topic (section) of the discipline	Types of educational activities (in hours)					Forms of current monitoring of academic performance
			L	LW	PE	IWS	Total	
1	2	3	4	5	6	7	8	9
1.____	12	Diagnosis and differential diagnosis and treatment of socially significant endocrine diseases (type 2 diabetes mellitus)	-	-	8	4	12	Interview. Assessment of the completion of the training polyclinic. documentation, testing
2.____	12	obesity and metabolic syndrome			8	4	12	Interview.

3.	12	thyroid disease			8	4	12	Assessment of the completion of the training polyclinic. documentation,
<b>ИТОГО:</b>				-	<b>24</b>	<b>12</b>	<b>36</b>	

### 7. The fund of evaluation funds for conducting intermediate certification of students in educational practice

№ i/i	List of competencies	№ semester	Evaluation indicator (s)	Evaluation criterion(s)	Rating scale	Name of the federal educational standard
1	2	3	4	5	6	7
1.	EPC-4 EPC -6 EPC -7 EPC -8 AI-2 AI -3 AI -4 AI -5	12	see the standard for assessing the quality of education, approved. By the order of the FSBEI HE NOSMA of Health of the Russian Federation of 10.07.2018, No. 264/o	see the standard for assessing the quality of education, approved. By the order of the FSBEI HE NOSMA of Health of the Russian Federation of 10.07.2018, No. 264/o	see the standard for assessing the quality of education, approved. By the order of the FSBEI HE NOSMA of Health of the Russian Federation of 10.07.2018, No. 264/o	Interview Analysis of the student's activity in clinical classes. Testing Situational tasks.

### 8. The list of basic and additional educational literature necessary for the development of educational practice

	Name
1.	Эндокринология: национальное руководство / под ред. И.И. Дедова, Г.А. Мельниченко. -2-е изд., перераб. и доп. - М.: ГЭОТАР-Медиа, 2018. – 1112 с.: ил.
2.	Алгоритмы специализированной медицинской помощи больным сахарным диабетом / Под редакцией И.И. Дедова, М.В. Шестаковой, А.Ю. Майорова. – 9-й выпуск. – М.: УП ПРИНТ; 2019.
3.	Недосугова Л.В. Диабетическая полинейропатия и окислительный стресс. Патогенез, диагностика, лечение. 2015 г. "РКИ Северо пресс", М. 91 стр.
4.	Балаболкин М.И., Клебанова Е.М., Креминская В.М. Дифференциальная диагностика и лечение эндокринных заболеваний М.: Медицинское информационное агентство, 2008.
5.	Петунина Н.А., Трухина Л.В., Федорина Т.А., Краснов А.Н. Избранные лекции по тиреологии: электронное учебное пособие, 2012
6.	Петунина Н.А., Трухина Л.В. Болезни щитовидной железы (Серия "Библиотека врача-специалиста"). Издательство: ГЭОТАР-Медиа. 2011. с.222. ISBN: 978-5-9704-1885-7

7.	Эндокринология. Фармакотерапия без ошибок. 2-е издание, переработанное и дополненное. Руководство для врачей / под ред. И.И. Дедова, Г.А. Мельниченко, М.В. Шестаковой. – М.: Е-нота, 2018. – 696 с.
----	--

СОГЛАСОВАНО  
библиотекой

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

1. Heart Failure Society: <http://www.ossn.ru>
2. National Internet Society of Internal Medicine Specialists - <http://www.internist.ru>
3. Official website of the Russian Society of Cardiology^ <http://www.scardio.ru>
4. Official website of the Russian Medical Society for Arterial Hypertension: <http://www.gipertonik.ru>.
5. Official website of the Association of Rheumatologists of Russia: <http://www.rheumatolog.ru>.
6. Official website of the Scientific Society of Nephrologists of Russia: <http://nonr.ru>.
7. Official website of the Russian Gastroenterological Association: <http://www.gastro.ru>.
8. Russian Medical Journal: <http://www.rmj.ru>
9. Journal " Pulmonology»: <http://www.pulmonology.ru>.
10. All-Russian medical portal (information on medical books, textbooks, orders, national projects): <http://www.bibliomed.ru>

### 10. Methodological guidelines for students on the development of the discipline

-Бестаев Д.В., Брциева З.С, Кцоева С.А., Хутиева Л.М., Бурдули Н.Н.«**Диагностика и лечение больных с сахарным диабетом в амбулаторных условиях**». Учебно - методическая разработка для самостоятельной подготовки студентов к практическому занятию. Владикавказ, 2021. – ЦМК терапевтических дисциплин.

-Бестаев Д.В., Брциева З.С, Кцоева С.А., Хутиева Л.М., Бурдули Н.Н.«**Диагностика и лечение больных с ожирением и метаболическим синдромом в амбулаторных условиях**». Учебно - методическая разработка для самостоятельной подготовки студентов к практическому занятию. Владикавказ, 2021. – ЦМК терапевтических дисциплин.

-Бестаев Д.В., Брциева З.С, Кцоева С.А., Хутиева Л.М., Бурдули Н.Н.«**Диагностика и лечение больных с щитовидной железы в амбулаторных условиях**». Учебно - методическая разработка для самостоятельной подготовки студентов к практическому занятию. Владикавказ, 2021. – ЦМК терапевтических дисциплин.

### 11. List of information technologies used in the implementation of the educational process in the discipline

The educational technologies used in the study of this discipline make up about 15% of interactive classes from the volume of classroom classes. Types of educational technologies:

Имит Simulation:

A) non-game simulation technologies: contextual learning

B) game simulation technologies: role-playing business games

He Non-simulation technologies: problem lecture, lecture-talk

Contextual learning is carried out throughout the entire period of teaching the discipline, especially during the SRS under the supervision of the teacher – knowledge, skills, skills are given not as a subject for memorization, but as a means of solving professional problems.



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

<b>№ i/i</b>	<b>Equipment name</b>	<b>Quantity</b>	<b>Technical condition</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Special equipment</b>			
1.	-	1	-
2.			
<b>Office equipment</b>			
3.	Toshiba Projector (multimedia)	1	satisfactory

The department actively uses the center for practical training of students for classes with students of the medical faculty in the specialty polyclinic therapy.

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

In the conditions 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 conducting training sessions in full-time, it is possible to study this discipline or part of it with the use of e-learning and distance educational technologies.

Teaching the discipline in the situations described above 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, current performance monitoring, as well as intermediate certification of students, the 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.

Seminars and practical classes can be held on-line in both synchronous and asynchronous mode. Seminars can be held in the form of web conferences.