

Федеральное государственное бюджетное образовательное учреждение  
высшего образования  
«СЕВЕРО-ОСЕТИНСКАЯ ГОСУДАРСТВЕННАЯ МЕДИЦИНСКАЯ АКАДЕМИЯ»  
Министерства здравоохранения Российской Федерации



УТВЕРЖДАЮ

Директор

31 августа 2020 г.

О.В. Ремизов

РАБОЧАЯ ПРОГРАММА ДИСЦИПЛИНЫ

Госпитальная терапия

(частично реализуемая на английском языке)

Специальность 31.05.01 Лечебное дело (специалитет)

Форма обучения очная  
(очная, очно-заочная (вечерняя), заочная)

Срок освоения ОПОП ВО 6 лет  
(нормативный срок обучения)

Кафедра внутренних болезней №4

Владикавказ 2020г.

При разработке рабочей программы дисциплины в основу положены:

1. ФГОС ВО по специальности 31.05.01 Лечебное дело утвержденный Министерством образования и науки РФ «9» февраля 2016 г.
2. Учебный план по специальности 31.05.01 Лечебное дело, одобренный ученым Советом ФГБОУ ВО СОГМА Минздрава России «19» февраля 2020 г., протокол № 3.
3. Рабочая программа дисциплины одобрена на заседании кафедры внутренних болезней №4 от «27» августа 2020 г., протокол № 1.
4. Рабочая программа дисциплины одобрена на заседании ЦКУМС от «28» августа 2020г., протокол № 1.
5. Рабочая программа дисциплины утверждена ученым Советом ФГБОУ ВО СОГМА Минздрава России от «31» августа 2020 г., протокол № 1.

**Разработчики:**

Зав. кафедрой, проф.

З.Т. Астахова

Доцент, к.м.н.

З.З. Дзукаева

**Рецензенты:**

Начальник отдела инновационных  
проектов МЗ РСО-Алания, к.м.н.

А.П. Шанаева

Зав. кафедрой внутренних  
болезней №5 СОГМА, проф.

Н.М. Бурдули

**Content of the work program**

1. the 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 to them and types of training;
6. a list of educational and methodological support for independent work of students in the discipline;
7. fund of evaluation means for the 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 referred to as the "Internet" network), necessary for mastering the discipline;
10. guidelines 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 required 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 in the discipline and the results of mastering the educational program**

№ №	Compete ncy number / index	Content of the discipline (or its sections)	Development results		
			know	be able to	own
1	2	3			
1.	GPC-8	Respiratory diseases	Choose an individual type of care for the treatment of a patient with a disease of the bronchopulmonary system.	Formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with a disease of the bronchopulmonary system.	Algorithm for the implementation of the main therapeutic measures for diseases of the bronchopulmonary system.
2.	GPC -9		Definition, etiology, risk factors, pathogenesis of respiratory diseases.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body's systems.	Methods of general clinical examination, an algorithm for diagnosing diseases of the bronchopulmonary system.
3.	PC -5		Methods for collecting and analyzing complaints, patient anamnesis, assessing the objective status of a patient with respiratory disease, diagnostic methods, diagnostic capabilities of research methods and differential diagnosis of bronchopulmonary diseases.	Conduct a survey and physical examination of the patient through the respiratory system. Assess the patient's condition in order to make a decision on the need to provide him with medical care. To outline the volume of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result. Interpret the data of laboratory and	Algorithm for assessing the condition and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of laboratory and instrumental diagnostic methods.

				instrumental examination methods - spirometry, piclofluometry, radiography and roentgenography, endoscopic methods, MRI tomography. Formulate a clinical diagnosis.	
4.	PC-6		Modern classifications, clinical picture, course features and possible complications of respiratory diseases. Diagnosis criteria.	Formulate a clinical diagnosis.	Algorithm for a detailed clinical diagnosis.
5.	PC-8		Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of respiratory diseases.	Develop a plan of therapeutic action, taking into account the course of the disease and its treatment. Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment. Choose an individual type of	Algorithm for determining the tactics of managing patients with respiratory diseases.

6.	PC-9			<p>care for the treatment of a patient with a respiratory disease in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use the methods of primary and secondary prevention in treatment.</p>	<p>Algorithm for the treatment of patients with respiratory diseases on an outpatient basis and in a day hospital.</p>
7.	PC-10		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various population groups, the principles of clinical examination of patients with respiratory diseases. Features of the organization and scope of work of an outpatient-polyclinic doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods for carrying out urgent measures for respiratory diseases.</p> <p>Intensive care for</p>	<p>Provide emergency care for lung diseases (an attack of bronchial asthma, spontaneous pneumothorax, etc.)</p> <p>Conduct resuscitation measures for life-threatening</p>	<p>The main medical diagnostic therapeutic measures for the provision of medical care in acute conditions that are not accompanied by a threat to the life of patients with broncho-pulmonary diseases.</p>

8.	PC-11		critically ill patients	conditions.	The main medical diagnostic therapeutic measures for the provision of medical care in conditions accompanied by a threat to the life of patients with broncho-pulmonary diseases.
1.	GPC -8	Diseases of the urinary organs	Choose an individual type of care for the treatment of a patient with a urinary tract disease.	Formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with a disease of the urinary system.	Algorithm for the implementation of the main therapeutic measures for diseases of the urinary system.
2.	GPC -9		Definition, etiology, risk factors, pathogenesis of diseases of the urinary organs.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body's systems.	Methods of general clinical examination, an algorithm for diagnosing diseases of the urinary system.
3.	PC-5		Methods for collecting and analyzing complaints, patient history, assessing the objective status of a patient with urinary tract disease, diagnostic methods, diagnostic capabilities of research methods and differential diagnosis of urinary diseases.	Conduct a survey and physical examination of the patient through the respiratory system. Assess the patient's condition in order to make a decision on the need to provide him with medical care. To outline the volume of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable	Algorithm for assessing the condition and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of laboratory and instrumental diagnostic methods.

				<p>result. Interpret the data of laboratory and instrumental examination methods - general analysis of urine, urine according to Nechiporenko, urine according to Zemnitsky, tank. urine culture, Reberg samples , X-ray and X-ray tomography, endoscopic methods, MRI tomography. Formulate a clinical diagnosis.</p>	
4.	PC-6		<p>Modern classifications, clinical picture, features of the course and possible complications of diseases of the urinary organs. Diagnosis criteria.</p>	<p>Formulate a clinical diagnosis.</p>	<p>Algorithm for a detailed clinical diagnosis.</p>
5.	PC-8		<p>Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases of the urinary organs.</p>	<p>Develop a plan of therapeutic action, taking into account the course of the disease and its treatment. Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, regimen and dose</p>	<p>Algorithm for determining the tactics of managing patients with diseases of the urinary organs.</p>



6.	PC-9		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, principles of clinical examination of patients with diseases of the urinary organs. Features of the organization and scope of work of an outpatient-polyclinic doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods for carrying out urgent measures for diseases of the urinary organs.</p>	<p>of drugs, evaluate the effectiveness and safety of the treatment. Choose an individual type of care for the treatment of a patient with a urinary tract disease in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use the methods of primary and secondary prevention in treatment.</p> <p>Provide emergency care for kidney disease (an attack of renal colic, with acute renal failure).</p>	<p>Algorithm for the treatment of patients with diseases of the urinary organs on an outpatient basis and in a day hospital.</p> <p>The main medical diagnostic therapeutic measures for the provision of medical care in acute conditions that are not accompanied by a threat to the life</p>
7.	PC-10				

8.	PC-11		Intensive care for critically ill patients.	Conduct resuscitation measures for life-threatening conditions.	of patients with diseases of the urinary organs.  The main medical diagnostic therapeutic measures for the provision of medical care in conditions accompanied by a threat to the life of patients with diseases of the urinary organs.
1.	GPC -8	Diseases of the circulatory system.	Choose an individual type of care for the treatment of a patient with a disease of the circulatory system.	Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with a disease of the cardiovascular system.	The algorithm for performing the main therapeutic measures for diseases of the cardiovascular system.
2.	GPC -9		Definition, etiology, risk factors, pathogenesis of diseases of the circulatory system.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body's systems.	Methods of general clinical examination, an algorithm for diagnosing diseases of the cardiovascular system.
3.	PC-5		Methods for collecting and analyzing complaints, patient anamnesis, assessing the objective status of a patient with circulatory diseases, diagnostic methods, diagnostic	Conduct a survey and physical examination of the patient on the cardiovascular system. Assess the patient's condition in order to make a decision on the need to provide him with medical care. To outline the volume of	Algorithm for assessing the condition and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of

			capabilities of research methods and differential diagnosis of cardiovascular diseases.	additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result. Interpret the data of laboratory and instrumental examination methods - ECG and ECG stress tests, daily monitoring of blood pressure and ECG, echocardiography, radiography and X-ray tomography, demonstrate work with a defibrillator. Formulate a clinical diagnosis.	laboratory and instrumental diagnostic methods.
4.	PC-6		Modern classifications, clinical picture, features of the course and possible complications of diseases of the circulatory system. Diagnosis criteria.	Formulate a clinical diagnosis.	Algorithm for a detailed clinical diagnosis.
5.	PC-8		Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases of the circulatory system.	Develop a plan of therapeutic action, taking into account the course of the disease and its treatment. Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions,	Algorithm for determining the tactics of managing patients with diseases of the circulatory system.

6.	PC-9		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, the principles of clinical examination of patients with diseases of the circulatory system. Features of the organization and scope of work of an outpatient-polyclinic doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods for carrying out urgent measures for diseases of the circulatory system.</p>	<p>determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment. Choose an individual type of care for the treatment of a patient with a circulatory disease in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use the methods of primary and secondary prevention in treatment.</p> <p>Provide emergency care for diseases of the cardiovascular system (hypertensive crisis of the 1st and 2nd order, anginal status, pulmonary edema)</p>	<p>Algorithm for the treatment of patients with diseases of the circulatory system on an outpatient basis and in a day hospital.</p> <p>The main medical diagnostic therapeutic measures for the provision of medical care in acute conditions that are not</p>
7.	PC-10				

8.	PC-11		Intensive care for critically ill patients.	Conduct resuscitation measures for life-threatening conditions.	<p>accompanied by a threat to the life of patients with diseases of the cardiovascular system.</p> <p>The main medical diagnostic therapeutic measures for the provision of medical care in conditions accompanied by a threat to the life of patients with cardiovascular diseases.</p>
1.	GPC -8	Diseases of the digestive system	Choose an individual type of care for the treatment of a patient with a disease of the digestive system.	Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with a disease of the digestive system.	Algorithm for the implementation of the main therapeutic measures for diseases of the digestive system.
2.	GPC -9		Definition, etiology, risk factors, pathogenesis of diseases of the digestive system.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body's systems.	Methods of general clinical examination, an algorithm for diagnosing diseases of the digestive system.
3.	PC-5		Methods for collecting and analyzing complaints, patient anamnesis, assessing the objective status of a patient with a disease of the digestive system,	Conduct a survey and physical examination of the patient in the digestive system. Assess the patient's condition in order to make a decision on the need to provide him with medical care. To	Algorithm for assessing the condition and establishing the fact of the presence of the disease. Methods of general clinical examination,

			<p>diagnostic methods, diagnostic capabilities of research methods and differential diagnosis of diseases of the digestive system.</p>	<p>outline the volume of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result.</p> <p>Interpret the data of laboratory and instrumental examination methods - duodenal and gastric intubation, abdominal puncture, radiography of the abdominal cavity organs, irrigoscopy, gastric fluoroscopy and radiotomography, endoscopic methods, MRI tomography.</p> <p>Formulate a clinical diagnosis.</p>	<p>interpretation of the results of laboratory and instrumental diagnostic methods.</p>
4.	PC-6		<p>Modern classifications, clinical picture, course features and possible complications of diseases of the digestive system. Diagnosis criteria.</p>		<p>Algorithm for a detailed clinical diagnosis.</p>
5.	PC-8		<p>Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases of the digestive system.</p>	<p>Develop a plan of therapeutic action, taking into account the course of the disease and its treatment.</p> <p>Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major</p>	<p>Algorithm for determining the tactics of managing patients with diseases of the digestive system.</p>

6.	PC-9		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, principles of clinical examination of patients with diseases of the digestive system. Features of the organization and scope of work of an outpatient-polyclinic doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods for carrying out urgent measures for diseases of the digestive system.</p>	<p>pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment. Choose an individual type of care for the treatment of a patient with a disease of the digestive system in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use the methods of primary and secondary prevention in treatment.</p> <p>Provide emergency care for diseases of the digestive system (biliary colic, acute pancreatitis, gastrointestinal bleeding, hepatic coma and</p>	<p>Algorithm for the treatment of patients with diseases of the digestive system on an outpatient basis and in a day hospital.</p> <p>The main medical diagnostic therapeutic</p>
----	------	--	---	---	---

7.	PC-10			encephalopathy, bleeding from EVV).	measures for the provision of medical care in acute conditions that are not accompanied by a threat to the life of patients with diseases of the digestive system.
8.	PC-11		Intensive care for critically ill patients.	Conduct resuscitation measures for life-threatening conditions.	The main medical diagnostic therapeutic measures for the provision of medical care in conditions accompanied by a threat to the life of patients with diseases of the digestive system.

## 2. Place of discipline in the structure of the educational program

The academic discipline "Hospital therapy" belongs to the basic part of the Federal State Educational Standard of Higher Education in the specialty "General Medicine" of Block 1.

The types of professional activities that underlie the teaching of this discipline:

1. medical;
2. organizational and managerial;
3. research.

## 2. The scope of the discipline

№ №	Type of work	Total credits	Total hours	Semesters			
				IX	X	XI	XII
				hours	hours	hours	hours
1	2	3	4	5	6	7	8
1	<b>Contact work of students with teacher (total), including:</b>		312	48	72	96	96
2	Lectures (L)		54	10	16	18	10
3	practical exercises (PE)		258	38	56	78	86
4	Seminars (S)						



5	Laboratory work (LW)							
6	Student independent work (IWS)			156	24	36	48	48
7	Type of intermediate appraisals	credit (C)						
		exam (E)		36				36
8	TOTAL: General labor intensity	hours			72	108	144	180
		credit units	14	504	2	3	4	5

### 5. Content of the discipline

№	Semesters	Name of the section of the discipline (module)	Types of educational activities, including independent work of students (in hours)					Forms of monitoring progress (by week of the semester)
			L	LW	PE	IWS	Total	
1	2	3	4	5	6	7	8	9
1.	IX	Respiratory system diseases: 1. Clinical interpretation of data from additional research methods in the diagnosis of lung diseases. 2. Differential diagnosis of broncho-obstructive syndrome. Bronchial asthma. Classification, diagnosis, differential treatment of bronchial asthma, asthmatic status. 3. Differential diagnosis in acute inflammatory lung diseases. 4. Differential diagnosis and treatment of diffuse (disseminated) lung lesions. 5. Differential diagnosis and treatment of cor pulmonale. 6. Modular lesson.	10	-	38	24	72	Oral questioning, control work, written and computer testing, solving situational problems, clinical analyzes of patients, participation of students in rounds of the head. department and associate professors, individual homework

2.	X	Diseases of the urinary organs: 1. Clinical interpretation of data from additional research methods in the diagnosis of kidney disease. 2. Differential diagnosis of the main pathological syndromes in nephrology. 3. Differential diagnosis for changes in urinary sediment. 4. Differential diagnosis and differential treatment of pyelonephritis and glomerulonephritis. 5. Differential diagnosis in nephrotic syndrome. 6. Differential diagnosis of pathological conditions accompanied by azotemia. 7. Differential diagnosis of kidney damage in diabetes mellitus, systemic connective tissue diseases. 8. Differential diagnosis in coma. 9. Modular lesson.	16	-	56	36	108	Oral questioning, control work, written and computer testing, solving situational problems, clinical analyzes of patients, participation of students in rounds of the head. department and associate professors, individual homework
----	---	---	----	---	----	----	-----	--

3.	XI	<p>Diseases of the circulatory system:</p> <ol style="list-style-type: none"> <li>1. Modern view on the problem of etiology, pathogenesis and treatment of atherosclerosis.</li> <li>2. Differential diagnosis for chest pain.</li> <li>3. Differential diagnosis of angina pectoris. Differentiated treatment of angina pectoris.</li> <li>4. Differential diagnosis of myocardial infarction, emergency therapy in the acute period. Complications of myocardial infarction, differentiated methods of treatment.</li> <li>5. Differential diagnosis and treatment of heart rhythm and conduction disorders.</li> <li>6. Differential diagnosis of the main syndromes in CHF. CHF treatment.</li> <li>7. Differential diagnosis for arterial hypertension. Differentiated treatment of hypertension. Treatment of hypertensive crises.</li> <li>8. Differential diagnosis and treatment of arterial hypotension.</li> <li>9. Differential diagnosis for murmurs in the heart.</li> <li>10. Differential diagnosis in cardiomegaly.</li> <li>11. Differential diagnosis and treatment of non-coronary myocardial lesions.</li> <li>12. Modular lesson.</li> </ol>	18	-	78	48	144	<p>Oral questioning, control work, written and computer testing, solving situational problems, clinical analyzes of patients, participation of students in rounds of the head. department and associate professors, individual homework</p>
----	----	--	----	---	----	----	-----	---

4.	XII	Diseases of the digestive system: 1. Clinical interpretation of data from additional research methods in the diagnosis of diseases of the digestive system. 2. Differential diagnosis With gastric dyspepsia syndrome. Functional dyspepsia, chronic gastritis, peptic ulcer disease. 3. Differential diagnosis of complications of peptic ulcer disease, differential treatment for peptic ulcer disease. 4. Differential diagnosis and treatment of diseases of the biliary tract and pancreas. 5. Differential diagnosis for jaundice. 6. Differential diagnosis and treatment of diseases manifested by hepatomegaly and hepatolienal syndrome. Liver cirrhosis, diagnosis and treatment. 7. Differential diagnosis for intestinal dyspepsia. 8. Modular lesson.	10	-	86	48	144	Oral questioning, control work, written and computer testing, solving situational problems, clinical analyzes of patients, participation of students in rounds of the head. department and associate professors, individual homework
		<b>TOTAL:</b>	<b>54</b>	<b>-</b>	<b>258</b>	<b>156</b>	<b>468</b>	

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

№/п	semesters	Name of educational and methodological development
1	IX	<b>Z.T. Astakhova, Z.A. Kulova, D.S. Zagalova, D.K. Gadieva, V.A.Aidarova</b> <b>Methodological developments in pulmonology in the course of hospital therapy.</b> ZT Astakhova, ZA Toguzova, IB Tuaeve and others. "Classification of diseases of internal organs." - Vladikavkaz, 2007. - Recommended by the educational methodical association for medical and pharmaceutical education of Russian universities.
2	X	<b>Z.T. Astakhova, J.A. Kulova, D.S. Zagalova, G.S.Turiev, F.U. Kanukova</b> <b>Methodological developments in nephrology in the course of hospital therapy.</b> ZT Astakhova, ZA Toguzova, Zh.A. Kulova and others. "Methodological recommendations for training in emergency therapy for students of the VI year." - Vladikavkaz, 2012. - cyclic educational methodological commission therapeutic disciplines. Z.T. Astakhova, Z.A. Kulova, Z.Z. Dzukaeva and others. "Methodological instructions for students of the 6th year of the Faculty of General Medicine on the cycles of gastroenterology and nephrology." - Vladikavkaz, 2012. - cyclic educational methodological commission therapeutic disciplines. ZT Astakhova, ZZ Dzukaeva et al. "Differential diagnosis of edematous syndrome." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission

		<p>therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Kulova. "Acute renal failure." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Kulova. "Kidney pathology in connective tissue diseases, diabetes mellitus, blood diseases." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2013.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, Zh.A. Kulova and others. "Research methods in nephrology." Educational and methodological development for self-preparation of students for a practical lesson.- Vladikavkaz, 2014.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, IB Tuaeve et al. "The main pathological syndromes in nephrology, research methods." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, Zh.A. Kulova et al. "Nephrotic syndrome, differential diagnosis of kidney damage in systemic diseases." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, Zh.A. Kulova and others. Kidney damage in diabetes mellitus. Educational-methodical development for self-preparation of students for a practical lesson.- Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, ZA Toguzova et al. "Principles of diagnosis, differential diagnosis and treatment of glomerulonephritis." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, Zh.A. Kulova and others "Acute renal failure". Educational and methodological development for self-preparation of students for a practical lesson.- Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, Zh.A. Kulova and others "Chronic renal failure". Educational and methodological development for self-preparation of students for a practical lesson.- Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p>
3	XI	<p><b>Z.T. Astakhova, Z.Z. Dzukaeva, D.K. Gadieva, Z.A. Kulova</b></p> <p><b>Methodical developments in gastroenterology in the course of hospital therapy.</b></p> <p>Z.T. Astakhova, Z.Z. Dzukaeva, Z.A. Kulova and others. "Cirrhosis of the liver." - a methodological guide, Vladikavkaz, 2012. - cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva, Z.A. Kulova and others. "Peptic ulcer". - Vladikavkaz, 2011. - cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, ZZ Dzukaeva, Zh.A. Kulova, T.N. Koshlyakova and others. "Differential diagnosis of jaundice" .- Vladikavkaz, 2014.- cyclic educational methodological commission of therapeutic disciplines.</p> <p>ZT Astakhova, ZZ Dzukaeva, Zh.A. Kulova and others. "Pancreatitis" .- Vladikavkaz, 2013.- TSUMK cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva, Zh.A. Kulova and others. "Diseases of the intestine." - Vladikavkaz, 2015. - cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva, Z.A. Kulova and others. "Diseases of the biliary tract." - Vladikavkaz, 2016. - cyclic educational methodological commission therapeutic disciplines.</p> <p>ZT Astakhova, ZA Toguzova, Zh.A. Kulova and others. "Methodological recommendations for training in emergency therapy for students of the VI year." - Vladikavkaz, 2014. - cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T.Astakhova, Z.A.Kulova, Z.Z. Dzukaeva and others. "Methodological instructions for students of the 6th year of the Faculty of General Medicine on the cycles of</p>

		<p>gastroenterology and nephrology." - Vladikavkaz, 2014. - cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva, IB Tuaeva and others. "Differential diagnosis of dyspeptic syndrome." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2014.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva. "Diseases of the esophagus." Educational and methodological development for self-preparation of students for a practical lesson.- Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva. "Nonspecific ulcerative colitis. Crohn's disease". Educational-methodical development for self-preparation of students for a practical lesson.- Vladikavkaz, 2013.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva. "Biliary dyskinesia". Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2014.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva. "Cirrhosis of the liver." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2013.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.Z. Dzukaeva. "Enterocolitis". Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2014.- cyclic educational methodological commission therapeutic disciplines.</p>
4	XII	<p><b>Z.T. Astakhova, Z.A. Kulova, Z.A. Toguzova, M.M. Besaeva</b>  <b>Methodological developments in cardiology in the course of hospital therapy.</b></p> <p>Z.T. Astakhova, AV Rappoport, IB Tuaeva and others. "Myocardial infarction" - a methodological guide, Vladikavkaz, 2012. - cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T. Astakhova, IB Tuaeva, AV Rappoport and others. "Congenital and acquired heart defects" .- Vladikavkaz, 2012.- cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Toguzova, Zh.A. Kulova and others. "Methodological recommendations for training in emergency therapy for students of the VI year." - Vladikavkaz, 2012. - cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, IB Tuaeva, AV Rappoport and others. "Guidelines for cardiology for practical training of students of the VI year." - Vladikavkaz, 2012. - cyclic educational methodological commission of therapeutic disciplines.</p> <p>Z.T. Astakhova, Zh.A. Kulova and others. "Cardiomyopathy". Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2013.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Toguzova and others. "IHD. Myocardial infarction ". Educational and methodological development for self-preparation of students for a practical lesson.- Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Toguzova and others "Complications of myocardial infarction." Educational-methodical development for self-preparation of students for a practical lesson.- Vladikavkaz, 2013.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, AV Rappoport and others. "Violation of the function of automatism." Educational-methodical development for self-preparation of students for a practical lesson.- Vladikavkaz, 2013.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, AV Rappoport et al. "Non-coronary myocardial diseases - myocarditis, endocarditis, pericarditis." Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, IB Tuaeva et al. "Genesis of the main teeth, intervals and segments of the ECG. Email axis of the heart. ECG signs of hypertrophy. " Educational and methodological development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, IB Tuaeva and others. "Violation of the function of excitability." Educational and methodological development for self-preparation of students for a</p>

		<p>practical lesson.-Vladikavkaz, 2012.- cyclic educational methodological commission therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Kulova, etc. "Idiopathic myocarditis of Abramov-Fiedler." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2006.- cyclic educational methodological commission therapeutic disciplines.</p>
--	--	--

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

№	List of competencies	No. semester	Indicator (s) evaluating	Evaluation criterion (s)	Grading scale	Name of valuation fund
1	2	3	4	5	6	7
1.	GPC -8 GPC -9 PC-5 PC-6 PC-8 PC-9 PC-10 PC-11	X	See the Standard for assessing the quality of education, approved. By order of the <b>Federal state budgetary educational institution of higher education NOSMA of the Ministry of Health of the Russian Federation</b> dated 10.07.2018, No. 264/0	See the Standard for assessing the quality of education, approved. By order of the <b>Federal state budgetary educational institution of higher education NOSMA of the Ministry of Health of the Russian Federation</b> dated 10.07.2018, No. 264/0	See the Standard for assessing the quality of education, approved. By order of the <b>Federal state budgetary educational institution of higher education NOSMA of the Ministry of Health of the Russian Federation</b> dated 10.07.2018, No. 264/0	<b>Exam tickets for credit, test tasks, control tasks, analyzes.</b>
2.	GPC -8 GPC -9 PC-5 PC-6 PC-8 PC-9 PC-10 PC-11	XII	See the Standard for assessing the quality of education, approved. By order of the <b>Federal state budgetary educational institution of higher education NOSMA of the Ministry of Health of the Russian Federation</b> dated 10.07.2018, No. 264/0	See the Standard for assessing the quality of education, approved. By order of the <b>Federal state budgetary educational institution of higher education NOSMA of the Ministry of Health of the Russian Federation</b> dated 10.07.2018, No. 264/0	See the Standard for assessing the quality of education, approved. By order of the <b>Federal state budgetary educational institution of higher education NOSMA of the Ministry of Health of the Russian Federation</b> dated 10.07.2018, No. 264/0	<b>Exam tickets for credit, test tasks, control tasks, ECG.</b>

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

### Main literature

№	Name	Author(s)	Year, place of publication	Number of copies	
				in library	at the department
1	2	3	4	7	8
1.	Internal medicine: textbook: in 2v	Ed. V.S. Moiseeva	M., GEOTAR-Media, 2012, M., GEOTAR-Media, 2013.	T.1-52 T.2-52	2
2.	Internal medicine: textbook	V. I. Makolkin, S. I. Ovcharenko	M.: GEOTAR-Media, 2011 M.: GEOTAR-Media, 2013	99  20 «Konsul'tant studenta» <a href="http://www.studmedlib.ru/ru/book/ISBN9785970425763.html">http://www.studmedlib.ru/ru/book/ISBN9785970425763.html</a>	2  1
3.	Hospital therapy, study guide.	Ed. V. A. Lyusova	M.: GEOTAR-Media, 2010.	1 «Konsul'tant studenta» <a href="http://www.studmedlib.ru/ru/book/ISBN9785970425763.html">http://www.studmedlib.ru/ru/book/ISBN9785970425763.html</a>	2
4.	Internal illnesses. 333 test problems and comments to them. Tutorial.	Ed. L.I.Dvoretzky	M.: GEOTAR-Media, 2010	1 «Konsul'tant studenta» <a href="http://www.studmedlib.ru/ru/book/ISBN9785970425763.html">http://www.studmedlib.ru/ru/book/ISBN9785970425763.html</a>	1
5.	"Cardiology": national guidelines	Yu.N. Belenkov, G.G. Oganov	M.: GEOTAR-Media,	10	1



			2007 М.: GEOTAR-Media, 2015	1	
--	--	--	--------------------------------	---	--

**additional literature**

№	Name	Author(s)	Year, place of publication	Number of copies	
				in library	at the department
1	2	3	4	7	8
1.	Methodical instructions for 6th year students of the medical faculty on the cycles of gastroenterology and nephrology.	Department of Internal Diseases No. 4, Z.T. Astakhova.	Владикавказ, 2012	30	16
2.	Methodical instructions for 6-year students of the Faculty of General Medicine in the cycle of cardiology.	Department of Internal Diseases No. 4, Z.T. Astakhova.	Владикавказ, 2012	-	16
3.	Internal Medicine with the Basics of Evidence-Based Medicine and Clinical Pharmacology: A Guide for Physicians	S.V. Moiseev, Zh.D. Kobalava, V.S. Moiseev	М.: GEOTAR-Media, 2008	13	-
4.	Clinical pharmacology and pharmacotherapy in real medical practice: master class: textbook.	V. I. Petrov	М.: GEOTAR-Media, 2011г.	1	-
			М.: GEOTAR-Media, 2015г.	3	-
5.	Internal illnesses. Laboratory and instrumental diagnostics: textbook. allowance.	Roitberg G.E.	М.: МЕД-пресс-информ, 2011	2	-
6.	Guide to cardiology: textbook. manual T1.	Ed. G.I. Strozhakova	М.: GEOTAR-Media, 2008	12	1
7.	Guide to cardiology: textbook. manual T2.	Ed. G.I. Strozhakova	М.: GEOTAR-Media,	3	1

			2008		
8.	Guide to cardiology: textbook. manual T3.	Ed. G.I. Strozhakova	M.: GEOTAR-Media, 2009	3	1

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

«Konsul'tant studenta»

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

<http://www.studmedlib.ru/ru/book/ISBN9785970425794.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425800.html>

<http://www.studmedlib.ru/ru/book/ISBN9785423500764.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970430743.html>

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

<http://www.studmedlib.ru/ru/book/ISBN9785970425794.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425800.html>

<http://www.studmedlib.ru/ru/book/ISBN9785423500764.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970430743.html>

Medical standards: <http://www.rspor.ru/index.php?mod1=standarts3&mod2=db1>

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

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

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

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

-The first medical channel -<http://1med.tv>

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

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

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

#### Electronic versions of magazines:

«Consilium medicum» - <http://www.sonsilium-medicum.com/media/consilium>

«Vestnik dokazatel'noy meditsiny»<http://www.evidence-update.ru/>

«Vrach»

<http://www.rusvrach.ru/journals/vrach>

«Dokazatel'naya kardiologiya»- <http://www.mediasphera.ru/journals/dokcard>

«Pul'monologiya» - <http://www.sonsilium-medicum.com/media/pulmo>

«Rossiyskiy zhurnal gastroenterologii, gepatologii, koloproktologii» - <http://www.m-vesti.ru/rggk/rggk.html>

«Russkiy meditsinskiy zhurnal» - <http://www.rmj.ru>

«Spravochnik poliklinicheskogo vracha»-<http://www.sonsilium-medicum.com/media/refer>

«Trudnyy patsiyent» - <http://www.t-pacient.ru>

«Farmateka» - <http://www.pharmateca.ru>

### 10. Methodical instructions for students on mastering the discipline

Training consists of classroom lessons (312 hours), including a lecture course and practical exercises, and independent work (156 hours). The main study time is allocated for practical work on the provision of qualified medical care to patients and on the provision of emergency medical care in case of urgent conditions.

When studying the discipline, knowledge of etiology, pathogenesis, clinical picture of diseases and pathological conditions, modern classification of diseases, possible complications of the most common diseases, modern methods of clinical, laboratory, instrumental examination of patients are used and practical skills are mastered to formulate a clinical diagnosis, develop a plan of therapeutic actions, formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions.

Practical classes are carried out in the form of a clinical analysis of patients being treated at the clinic, the participation of students in the rounds of the head. department, demonstration of practical skills in the provision of medical care using visual aids, solving situational problems, answering test tasks, analyzing clinical patients. The main method of teaching 6-year students is independent work of a student at the patient's bedside under the guidance of a teacher. Along with this, the development of diagnostic research methods in the main sections of internal medicine in functional diagnostics rooms, X-ray rooms, clinical and biochemical laboratories is actively used; participation in clinical and pathological conferences; participation in professorial rounds; registration of medical documentation; participation in thematic rounds and clinical analyzes of patients; conducting seminars on the following cycles: cardiology, nephrology, gastroenterology, pulmonology, hematology, functional diagnostics, physiotherapy exercises and medical supervision with the basics of manual therapy; conducting credits and general certification in practical skills; participation of students in scientific work.

Clinical analysis of the patient in lectures and practical classes is accompanied by a demonstration and detailed analysis of the results of additional research methods, while participation in the analysis of students is mandatory, with an independent interpretation of complaints, anamnesis, objective status data, functional and laboratory research methods, the formulation of a clinical diagnosis, the formation of a differentiated treatment and a rehabilitation plan. The purpose of the analysis is a detailed study of the disease in its individual version. In accordance with the requirements of the Federal State Educational Standard, active and interactive forms of conducting classes are widely used in the educational process. The proportion of classes conducted in interactive forms is at least 10% of classroom lessons.

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

The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral questioning during classes, during clinical analyzes, when solving typical situational tasks and answering test tasks.

At the end of the study of the discipline, intermediate control of knowledge is carried out using test control, testing of practical skills and solving situational problems.

Questions on the academic discipline are included in the State final certification of graduates.

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

<b>semester</b>	<b>Type of occupation L, PE, IWS</b>	<b>Educational technologies used (active, interactive)</b>	<b>Number of hours</b>	<b>% of classes in an interactive form</b>	<b>List of software</b>
<b>IX-XII</b>	<b>L</b>	A set of slides, videos for a traditional lecture, a visualization lecture - in valuation fund + guidelines for teachers.	54	20	Microsoft Office PowerPoint; Internet Exploer
<b>IX-XII</b>	<b>PE</b>	A set of questions and assignments for a practical task, a test shell for test control, a set of situational tasks for an AP, a set of topics for scientific research work, a set of case histories for the analysis of clinical cases, a set of material for business and role-playing games.	258	20	Microsoft Office PowerPoint; Internet Exploer All-Russian Educational Internet Program - "Internist"
<b>IX-XII</b>	<b>IWS</b>	Questions and tasks for business and role-playing educational games, a set of thematic plans for students' research work.	156	15	Microsoft Office PowerPoint; Internet Exploer All-Russian Educational Internet Program - "Internist"

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

The Department of Internal Medicine No. 4 is located on the basis of the cardiological, gastroenterological and nephrological departments of the Republican Clinical Hospital.

The department has 176 beds: 120 - cardiological, 40 nephrological - 40 - gastroenterological. In addition, classes in hematology are held on the basis of the hematology department of the Republican Oncological Dispensary, in pulmonology - on the basis of the pulmonology department of the RCH. The Republican Clinical Hospital is currently equipped with a sufficient arsenal of modern diagnostic equipment, which makes it possible to provide the educational process at a sufficiently high level.

The total educational area occupied by the department is 338.39 sq. M. The department has its own conference. hall (34.2 sq.m.) and a lecture hall for 100 seats (98.82 sq.m.). At the disposal of the department there is: the office of the head of the department, the office of the professor of the department (28.67 and 19.38 sq. M., Respectively), study rooms (2 – №2 - 15.66 sq. M., No. 3 - 15.66 sq. m., No. 4 - 9.37 sq.m., No. 5 - 21.09 sq.m. on the territory of the cardiological building, as well as one training room each in the departments of gastroenterology and nephrology), laboratory of functional diagnostics (33, 06 sq.m.), laboratory for daily monitoring of blood pressure and ECG (13.3 sq.m.), computer class - study room No. 1 (19.38 sq.m.), practical skills class (21.09 sq.m.) .), assistant (8.7 sq.m.). In specialized departments (cardiology, nephrology, gastroenterology, functional diagnostics, pulmonology), there are study rooms equipped with appropriate teaching aids (stands, tables, modular components), which make it possible to fully ensure the development of the material.

In addition to educational and methodological information, visual media present: the history of the development of the department, the scientific work of the team (monographs, abstracts), medical activities, the results of the work of the Council of People's Commissars. There is a stand for organizing the educational process with plans for a lecture course, practical classes, a schedule of classes, the distribution of classrooms, a list of topics for independent study by students, a list of questions for the IGA, a schedule of teachers and assistants on duty, a schedule of consultations and practice sessions. The stands reflect the current activities of the department and are regularly updated.

The computer class, created on the basis of the department, allows to provide in full both the educational process and the current and final control of the quality of students' knowledge. Classes in the computer class are conducted according to the schedule available at the department.

№	equipment identification	number	Technical condition
<b>Special equipment</b>			
1	Bicycle ergometer	1	satisfactory
2	Cadascope	2	satisfactory
3	ECG	1	satisfactory
4	Computer diagnostic system "Valenta"	1	satisfactory
5	Complex "Diamant"	1	satisfactory
6	Blood pressure monitor (holter)	1	satisfactory

7	ECG monitor (holter)	1	satisfactory
8	Duodenal and gastric probes	2	satisfactory
<b>Dummies</b>			
1	surgical dummy phantom	1	satisfactory
2	Pulmonary trainer for mechanical ventilation and chest compressions	1	satisfactory
3	Universal head trainer	1	satisfactory
4	Proctological simulator	1	satisfactory
	Tables	28	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 assignments. 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.

Lectures can be presented in the form of audio, video files, "live lectures", etc.

Conducting seminars and workshops is possible online, both in synchronous and asynchronous modes. Seminars can be held in the form of web conferences.