

**MINISTRY OF HIGHER EDUCATION AND SCIENCE  
OF THE RUSSIAN FEDERATION  
PENZA STATE UNIVERSITY  
MEDICAL INSTITUTE**

**APPROVED**  
by Director of the Institute  
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**STUDY PROGRAM OF THE DISCIPLINE  
C 1.1.36 Intermediate Level Therapy, Occupational Diseases**

Specialty: 31.05.01 General Medicine  
Graduate's qualification – Medical doctor  
Mode of study: full-time

Penza, 2016

## 1. Goal of the discipline

The goal of the discipline Intermediate Level Therapy, Occupational Diseases is: developing students' competences in main symptoms and syndromes of the most common nosological forms of diseases in their classical (typical) course, modern methods of their diagnosis, treatment (with mandatory knowledge of international names of essential medicines, methods of their introduction, dosages depending on age) and the principles of prevention.

The objectives of the discipline Intermediate Level Therapy, Occupational Diseases are: studying etiology and pathogenesis, typical clinical manifestations and course of the most common nosological forms of diseases; exploring modern methods of diagnosis, treatment and prevention of common forms of diseases; recognizing the main symptoms and symptom complexes of the most common nosological forms of diseases; determining the standard methods of examination aimed at verifying the diagnosis; conducting differential diagnosis in group of diseases with similar symptoms and preliminary diagnosis, identifying the scope of additional studies to clarify the diagnosis; formulating clinical diagnosis according to modern classification; preparing treatment plan taking into account the course of the disease, appointing drug therapy, using methods of non-drug treatment, rehabilitation.

## 2. Place of the discipline in BPEP structure

The discipline Intermediate Level Therapy, Occupational Diseases refers to the basic part of the C1 block.

Intermediate Level Therapy, Occupational Diseases is interconnected with the following disciplines: Anatomy; Biology; Biochemistry; Histology, Embryology, Cytology; Normal Physiology; Propaedeutics of Internal Diseases, Radiation Diagnosis; Public health and health care, Health Economics; Pharmacology.

The main topics of the discipline are necessary for studying the clinical disciplines: Polyclinic Therapy; Hospital Therapy, Endocrinology; Infectious Diseases; Neurology, Medical Genetics; Phthisiology; Clinical Hematology; Oncology, Radiation Therapy; Anesthesiology, Resuscitation, Intensive Care.

## 3. Students' competences acquired through successful completion of the discipline Intermediate Level Therapy, Occupational Diseases

The process of studying the discipline is aimed at forming the components of the following competences in accordance with Federal State Educational Standards of Higher Education (hereinafter – FSES HE) in this field of study:

Code of the competence	Name of the competence	Components of the competence (On successful completion of the course, the student should know, be able to, obtain and apply)
1	2	3
GC-1	ability to abstract thinking, analysis, synthesis	Know: methods of analysis and synthesis
		Be able to: apply methods of analysis and synthesis
		Obtain and apply: ability to apply methods of analysis and synthesis
1	2	3
GC-8	willingness to work in a team, to tolerate social,	Know: social, ethnic, religious and cultural differences

	ethnic, religious and cultural differences	Be able to: tolerate social, ethnic, religious and cultural differences
		Obtain and apply: ability to work in a team
PC-1	ability and readiness to implement a set of measures aimed at maintaining and improving health, including a healthy lifestyle, preventing the occurrence and (or) spread of diseases, diagnosing them at early stages, identifying the causes and conditions for their occurrence and development, as well as eliminating harmful effects of environmental factors on human health	Know: set of measures aimed at maintaining and improving health, including a healthy lifestyle, preventing the occurrence and (or) spread of diseases.
		Be able to: implement a set of measures aimed at maintaining and improving health, preventing the occurrence and (or) spread of diseases, make early diagnosis and identify the causes and conditions of emerging and developing diseases under the guidance of a teacher.
		Obtain and apply: skills to independently implement a set of measures aimed at maintaining and improving health, including a healthy lifestyle, preventing the occurrence and (or) spread of diseases, diagnosing them at early stages, identifying the causes and conditions for their occurrence and development, as well as eliminating harmful effects of environmental factors on human health
PC-5	readiness to collect and analyze patient complaints, his/her medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of a disease	Know: complaints, data of examination, laboratory, instrumental, pathological-anatomical and other studies in various diseases of the internal organs.
		Be able to: collect complaints, anamnesis of the patient in order to recognize the condition or establish the presence or absence of the disease.
		Obtain and apply: skills in analyzing complaints, anamnesis, examination results, laboratory, instrumental, pathological and anatomical and other studies to recognize the condition or establish the presence or absence of disease
PC-6	ability to determine the patient's main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the International statistical classification of diseases, 10 <sup>th</sup> revision	Know: basic pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with International statistical classification of diseases
		Be able to: identify under the guidance of teacher basic pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with

		International statistical classification of diseases
		Obtain and apply: skills of determining the main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the international statistical classification of diseases
PC–17	ability to apply the basic principles of organization and management in the field of public health, in medical organizations and their structural subdivisions	Know: basic principles of organization and management in the field of public health, in medical organizations and their structural subdivision
		Be able to: under the guidance of the teacher apply the basic principles of organization and management in the field of public health, in medical organizations and their structural subdivisions
		Obtain and apply: ability to independently apply the basic principles of organization and management in the field of public health, in medical organizations and their structural subdivisions
PC–20	readiness for analysis and public presentation of medical information following evidence-based medicine	Know: methods, ways of analysis and public presentation of medical information following evidence-based medicine
		Be able to: participate in analysis and public provision of medical information
		Obtain and apply: ability to independently analyze, publicly present medical information following evidence-based medicine

#### 4. Structure and content of the discipline Intermediate Level Therapy, Occupational Diseases

##### 4.1. Structure of the discipline

The total workload of the discipline is 10 credits, 360 hours.

Name of the discipline (module) units and topics	Semester	Semester weeks	Types of academic work including students' individual work and workload (in academic hours)									Forms of on-going performance assessment (by topic) *							
			In-class work				Individual work					Interview	Spoken test	Test	Check work marking	Paper marking	Marking of essays and other creative works	Coursework (project)	Skills testing
			Total	Lecture	Practical classes	Laboratory work	Total	Preparation for in-class work	Papers, essays etc.	Coursework (project)	Preparation for exams								
<b>Section 1. Diseases of the respiratory system</b>	<b>7</b>			<b>4</b>	<b>24</b>		<b>26</b>	<b>24</b>		<b>2</b>									<b>7</b>
Topic 1.1. Pneumonias	7			2	6		7	6		1		1		1	1		1	1	7
Topic 1.2. Suppurative lung disease	7				6		6	6				2		2	2			2	7
Topic 1.3. Bronchiectasis	7				6		6	6				3		3	3			3	7
Topic 1.4. Bronchial asthma	7			2	6		7	6		1		4		4	4		4	4	7
<b>Section 2. Diseases of the circulatory system</b>	<b>7</b>				<b>36</b>		<b>40</b>	<b>34</b>		<b>6</b>									<b>7</b>
Topic 2.1. Arterial hypertension				2	6		7	6		1		5		5	5		5	5	
Topic 2.2. Atherosclerosis. Stable	7			2	6		6	5		1		6		6	6		6	6	7

Angina Pectoris																			
Topic 2.3. Acute coronary syndrome	7				6		7	6		1		7		7	7		7	7	7
Topic 2.4. Myocardial infarction	7			2	6		7	6		1		8		8	8		8	8	7
Topic 2.5 Heart arrhythmias and blockage	7			2	6		6	5		1		9		9	9		9	9	7
Topic 2.6. Chronic heart failure	7			2	6		7	6		1		10		10	10		10	10	
Section 3. Kidney and urinary tract diseases					12		12	10		2									
Topic 3.1. Acute glomerulonephritis	7				6		6	5		1		11		11	11		11	11	7
Topic 3.2. Chronic glomerulonephritis				2	6		6	5		1		12		12	12		12	12	
Section 4. Occupational diseases					22		24	24									6		
Topic 4.1. Occupational pathology as a clinical discipline. Occupational diseases of healthcare workers					6		6	6				13		13			7	13	
Topic 4.2. Occupational diseases of the respiratory system of chemical etiology. Pneumoconiosis.					6		6	6				14		14			8	14	
Topic 4.3. Vibration disease				2	5		6	6				15		15			9	15	
Topic 4.4. Acute and chronic poisoning by pesticides, heavy metal compounds	7			1	6		6	6				16		16				16	7
Semester total	7				95		10	92		10									7

						<b>2</b>												
<b>Section 1. Diseases of the respiratory system</b>	<b>8</b>				<b>12</b>		<b>2</b>	<b>2</b>										<b>8</b>
Topic 1.1. Chronic bronchitis	8				6		1	1			1		1	1			1	8
Topic 1.2. COPD	8				6		1	1			2		2	2			2	8
<b>Section 2. Diseases of the circulatory system</b>	<b>8</b>				<b>24</b>		<b>6</b>	<b>6</b>										<b>8</b>
Topic 2.1 Acute rheumatic fever	8				6		1	1			3		3	3			3	8
Topic 2.2. Infective endocarditis	8				6		1	1			4		4	4			4	8
Topic 2.3. Mitral heart disease	8				6		1	1			5		5	5			5	8
Topic 2.4. Aortic heart disease	8				6		1	1			6		6	6			6	8
<b>Section 3. Diseases of the digestive system</b>	<b>8</b>				<b>22</b>		<b>2</b>	<b>2</b>										
Topic 3.1. Diseases of the esophagus	8				6		0,5	0,5			7		7	7			7	8
Topic 3.2. Chronic gastritis	8				6		0,5	0,5			8		8	8			8	8
Topic 3.3. Gastric ulcer and duodenal ulcer	8				6		0,5	0,5			9		9	9			9	8
Topic 3.4. Bowel disease	8				4		0,5	0,5			10		10	10			10	8
<b>Section 4. Diseases of liver, biliary tract and pancreas</b>	<b>8</b>				<b>22</b>		<b>4</b>	<b>4</b>										<b>8</b>
Topic 4.1. Diseases of the biliary tract	8				6		1	1			11		11	11			11	8
Topic 4.2. Chronic hepatitis	8				6		1	1			12		12	12			12	8
Topic 4.3. Cirrhosis	8				6		1	1			13		13	13			13	8

Topic 4.4. Chronic pancreatitis	8				4		1	1				14		14	14			14	8
<b>Semester total</b>					<b>80</b>		<b>12</b>	<b>12</b>											
<i>Course work (project)</i>	<b>7</b>									<b>10</b>									<b>7</b>
<i>Preparation for exam</i>	<b>8</b>										36								<b>8</b>
<b>Total workload, in academic hours</b>											<b>36</b>	Interim assessment							
												Type				Semester			
												Pass-fail exam				8			
												Exam							

\*Classes are conducted on a cyclic schedule



#### 4.2. Content of the discipline (module)

Section of the discipline	№	Topic	Content
<b>7th semester</b>			
<b>Disorders of the Respiratory System</b>	1	Pneumonias	Etiology (bacterial, viral, rickettsiosis, chemical and physical stimuli, allergic) pneumonia. Pathogenesis: influence of alcohol, cooling, injuries, operations, pathology of the nasopharynx and previous bronchial damage. Value of immunological reactions of the body. Modern classification. Treatment. Identification of the pathogen as an important stage in formulating detailed clinical diagnosis and choosing etiological therapy. Diet. Antibacterial therapy. Antiviral drug. Symptomatic means increasing body's resistance. Immune stimulants. Desensitizing therapy. Physiotherapy, therapeutic breathing exercises. Criteria of recovery. Outcomes of the disease. Disease prognosis..
	2	Suppurative lung disease	Lung abscess and gangrene. Etiology and pathogenesis (post-pneumonic, aspiration, hematogenic-embolic and traumatic suppuration of the lungs). Clinical manifestations, their peculiarity depending on the stage, localization and prevalence, severity of the course. Complications. Treatment: sanation of the bronchial tree: fiber-optic bronchoscopy, segmental catheterization, transthoracic microgranuloma, microstereoscope, antibacterial therapy, intratracheal administration of antibiotics, antiseptics and other drugs, restorative therapy. Symptomatic means. Primary and secondary prevention. Indications for surgical treatment.
	3	Bronchiectasis	Definition, etiology, pathogenesis, classification; clinical picture, diagnosis; treatment
	4	Bronchial asthma	Etiology and pathogenesis of bronchial asthma (BA). Role of Exo-and endo allergens, hereditary-constitutional and professional factors, focal infection of the upper respiratory tract and bronchi, the state of the Central and autonomic nervous system. Role of autoimmunization. Classification. Mechanism of attack. Clinical symptomatology of Exo and endogenous bronchial asthma. Diagnostic criteria of bronchial asthma (basic and additional). Role of allergic examination. Differential diagnosis. Complications. Asthmatic status, predisposing factors. Criteria for diagnosis and stage of course. Treatment. Arresting of attack. Fight against asthmatic status and its prevention. Glucocorticoids, lavage of the bronchial tree. Bronchodilators (sympathomimetics, cholinolytics, purine bases), Intal, immunosuppressants. Treatment in the interventional period (sanation of foci of infection, cessation of contact with the allergen, specific and nonspecific hyposensitization). Sanation of foci of infection. Spa treatment. Prevention. Forecast. Employment opportunity.
<b>Diseases of the circulatory system</b>	5	Arterial hypertension	Spread of arterial hypertension (AH). Etiology and pathogenesis. Role of central disorders of regulation of blood pressure, sympathetic nervous system, humoral and hormonal pressor (renin angiotensin, aldosterone) and depressor (kinin, prostaglandin) factors in the onset and

			<p>progression of the disease. Value of sodium metabolism disorders, and other risk factors. Classification. Clinical picture of various stages of the disease. Hemodynamic options. Complications. Differential diagnosis of symptomatic arterial hypertension. Treatment. Regimen, rational nutrition and other non-drug methods. Differential use of antihypertensive drugs with different mechanisms of action, hemodynamic changes and associated diseases. Principles of combined pharmacotherapy. Outcomes. Disease prognosis. Medical-Labour Examination and employment opportunity. Prevention (control of risk factors, medical examination).</p>
	6	Atherosclerosis. Stable Angina Pectoris	<p>Epidemiology of atherosclerosis. Pathogenesis. Risk factor. Atherosclerosis and hypertension. Most frequent localization of atherosclerosis. Features of clinical manifestations. Importance of laboratory, radiological, instrumental and angiographic study methods in the diagnosis of atherosclerosis of various localizations. Main groups of drugs in the treatment of atherosclerosis. Primary and secondary prevention. Importance of work and life factors, physical education and physical activity, rational nutrition.</p> <p>Ischemic heart disease (IHD): Stable Angina Pectoris. Concept of IHD. Relevance of the problem (social significance, epidemiology). IHD risk factors, their significance. Classification of IHD. Stable Angina Pectoris. Pathogenesis of pain syndrome (role of functional and anatomical factors). Clinical options: stable, unstable (first-time, progressive, variant). Severity. Diagnosis. Characteristics of pain, risk factors. Role of ECG in the detection of coronary insufficiency (ECG with pharmacological and load tests). Radionuclide methods. Role of invasive techniques (coronary angiography, frequent atrial stimulation test). Differential diagnosis with small-focal myocardial infarction. Treatment of coronary artery disease. Non-drug methods. Relief and prevention of pain attacks (nitrates, beta-blockers, calcium antagonists). Principles of step therapy. Place of physical training in complex treatment. Indications for surgical treatment. Prevention (primary and secondary). Disease prognosis. Employment expertise.</p>
	7	Acute coronary syndrome	<p>Concept of acute coronary syndrome (ACS), etiology, pathogenesis of ACS. Clinical forms, features of tactics and treatment of patients with ACS. Diagnosis of ACS. Treatment.</p>
	8	Myocardial infarction	<p>Epidemiology of myocardial infarction. Pathogenesis. Clinical picture in different periods of the disease uncomplicated myocardial infarction. Clinical variants of the onset of the disease. Diagnosis. Changes in electrocardiogram, blood pattern, biochemical parameters. Treatment of uncomplicated myocardial infarction. Importance of early hospitalization. Pre-hospital care. Medical tactics in different periods of myocardial infarction. Relief of pain attack, fight against cardiogenic shock, heart failure, rhythm disturbances. Possibilities of anticoagulant and thrombolytic therapy. Principles of resuscitation of patients with myocardial infarction in sudden clinical death. Forecast. Rehabilitation of patients. Labor examination and employment. Prophylactic</p>

			medical examination. Complications: cardiogenic shock, rhythm and conduction disorders, heart failure, early and late heart aneurysms, cardiac tamponade, post-infarction syndrome. Treatment of complicated myocardial infarction. Importance of early hospitalization. Pre-hospital care. Medical tactics in various complications of myocardial infarction.
	9	Heart arrhythmias and blockage	Sinus node weakness syndrome. Diagnosis. Clinical implications. Indications for implantation of artificial pacemaker. Conduction disturbance. Pathogenesis. Classification. Blockades sinoatrial, atrioventricular, intraventricular. Blockade of legs of bundle branch block. Etiology, clinical picture, diagnosis, treatment. Clinical implications. Nature of ECG changes. Changes in hemodynamics in various conduction disorders. Complications (Morgana-Adams-Stokes syndrome, heart failure, arrhythmias). Diagnosis and differential diagnosis. Role of electrophysiological studies and ECG monitor. Treatment. Medical tactics in acute conduction disorders. Indications for temporary pacing. Therapy of chronic conduction disorders. Indications for pacemaker implantation. Medical-Labour Examination. Forecast. Modern ideas about the pathogenesis of arrhythmia. Classification of arrhythmias. Extrasystole. Pathogenesis. Clinical implications. Extracytoplasmic topical diagnosis of arrhythmias (ECG signs). Features of medical tactics, indications for the appointment of antiarrhythmic drugs. Prevention of arrhythmia. Paroxysmal tachycardia. Pathogenesis. Clinical picture of an attack of paroxysmal tachycardia. ECG changes. Changes in systemic hemodynamics during an attack. Drug therapy during an attack of paroxysmal tachycardia, supraventricular and ventricular. Indications for pulse therapy. Prevention of seizures. Forecast. Syndrome of premature ventricular excitation. Diagnosis. Indications for surgical treatment. Atrial fibrillation and atrial flutter. Pathogenesis. Classification. Clinical symptomatology. ECG changes. Effect of atrial fibrillation on hemodynamics. Complications. Therapy of paroxysmal and permanent atrial fibrillation. Indications for pulse therapy. Management of patients after restoration of rhythm. Prevention of recurrent atrial fibrillation. Medical-Labour Examination. Disease prognosis. Ventricular fibrillation. Pathogenesis. Clinical picture, ECG signs. Therapy. Role of intensive care units in the prevention, diagnosis and therapy of ventricular fibrillation.
	10	Chronic heart failure	Modern ideas about the pathogenesis of heart failure. Features of changes in myocardial metabolism in heart failure. Nature of hemodynamic changes (systemic and regional) in heart failure. Role of kidneys and endocrine factors in the occurrence of water-electrolyte balance disorders. Provoking and contributing factors. Classification of heart failure. Clinical manifestations of acute and chronic heart failure, left and right ventricular. Concept of "hidden" heart failure. Diagnosis of heart failure. Clinical and additional research methods. Therapy. Mode. Diet. Features of medical tactics taking into account the main pathological process and the

			stage of heart failure. Indications and contraindications to the use of cardiac glycosides. Tactics of long - term use of glycosides. Diuretics in the treatment of heart failure. Possible peripheral vasodilators and ACE inhibitors. Emergency care for heart asthma and pulmonary edema. Indications and contraindications to Spa treatment. Medical and labor examination and prognosis.
<b>Disorders of the Kidney and Urinary Tract</b>	11-12	Acute glomerulonephritis Chronic glomerulonephritis	Anatomy and physiology of the kidneys. Glomerulonephritis: definition. Etiology and pathogenesis (immunocomplex, antibody mechanisms) of acute and chronic glomerulonephritis. Classification of glomerulonephritis (primary, secondary). Clinical classification of glomerulonephritis (Tareeva, 1972). Morphological classification of glomerulonephritis. Leading nephrological syndromes and their pathogenesis (urinary, nephrotic, acute nephritic, hypertensive, acute renal injury, chronic kidney disease, tubular dysfunction). Clinical manifestations of glomerulonephritis. Types of proteinuria, hematuria. Pathogenesis of nephrotic syndrome (NS). Mechanism of primary sodium retention in NS. Signs of hypovolemic and hypervolemic variants of NS. NS complications (nephrotic crisis, thrombosis, acute renal injury, metabolic disorders, anemia, etc.). Diagnosis of glomerulonephritis. Differential diagnosis. Indications for renal biopsy. Treatment of glomerulonephritis (etiotropic, pathogenetic). Treatment of NS, nephrotic crisis, edema in NS. Treatment of thrombosis in NS. Clinical examination of glomerulonephritis. Disease prognosis.
<b>Occupational disease</b>	13	Occupational pathology as a clinical discipline. Occupational diseases of healthcare workers	Definition of occupational diseases. Main objectives of the occupational pathology. Concept of "harmful production factor". Classification of "harmful production factor". Background of development of occupational pathology. Peculiarities of clinical examination and diagnostics of occupational diseases. Organization and conduct of medical examination of workers. Preliminary medical examinations. Periodical medical examinations. Order of medical examinations. Occupational diseases of healthcare workers
	14	Occupational diseases of the respiratory system of chemical etiology. Pneumoconiosis.	Occupational diseases of the respiratory system from exposure to industrial aerosols. Pneumoconioses. Differential diagnosis of pulmonary dissemination.
	15	Vibration disease	Definition of vibration disease. Pathogenesis. Clinics. Vibration disease in the result of local vibration. Vibration disease caused by the impact of general vibration. Classification. Vibration disease caused by combined affection of general and local vibration. Treatment. Verification of the ability to work. Preventive measures.
	16	Acute and chronic poisoning by pesticides, heavy metal compounds	Industrial intoxication (poisoning) inorganic and organic substances and their compounds. Pesticide intoxication. Antidote therapy.
<b>8th semester</b>			

<b><i>Disorders of the Respiratory System</i></b>	1	Chronic bronchitis	Etiology and pathogenesis of chronic bronchitis. Effect of smoking, infections, cool, professional, and endocrine factors. Classification of chronic bronchitis. Clinical picture depending on the form, stage and phase of the process. Course and complications. Diagnostic criteria of the disease. Emphysema. Treatment (antibacterial, broncholytic, mucolytic and antitussive therapy). Physiotherapy and exercise therapy. Prevention. Upper respiratory tract sanitation. Forecast. Employment expertise and employment.
	2	COPD	Definition of COPD. Etiology and pathogenesis of COPD. Factors that provoke exacerbation of the disease. Clinical manifestations of stable COPD and during exacerbation. COPD phenotypes. Classification of COPD by severity. Methods of diagnosis of COPD. Differential diagnosis of COPD. Principles of treatment of COPD according to the ABCD groups. Principles of treatment and prevention of COPD exacerbations.
<b><i>Diseases of the circulatory system</i></b>	3	Acute rheumatic fever	Etiology. Role of beta-hemolytic Streptococcus (clinical, serological and epidemiological evidence). Pathogenesis of rheumatism. Morphology of the various stages of rheumatism. Classification. Clinical picture of the main manifestations of rheumatism: polyarthritis, rheumocarditis, primary and recurrent, pericarditis, chorea, skin manifestations, kidney damage. Clinical and laboratory criteria of rheumatism activity. Variants of the course of rheumatism. Differential diagnosis. Treatment of rheumatism: penicillin therapy, non-steroidal anti-inflammatory drugs. Indications for corticosteroids. Prevention. Sanitation of focal infection, anti-relapse treatment.
	4	Infective endocarditis	Etiology, pathogenesis. Value of the reactivity of the organism and the characteristics of the pathogen in the occurrence of infectious endocarditis. Features of acute and prolonged septic endocarditis. Clinics: variants of the onset of the disease, temperature curve, damage to the heart and other organs (kidneys, liver and spleen, skin, etc.). Thromboembolic complications. Laboratory data, value of repeated blood cultures to identify the causative agent of the process. Clinical "masks" of the disease. Features of the course in the elderly and senile age, drug addicts, after heart surgery. Treatment: choice of antibiotic, need for high doses, duration of therapy, indications for surgical treatment. Criteria of curability. Prevention of exacerbation. Prophylactic medical examination.
	5	Mitral heart disease	Mitral regurgitation. Etiology, pathogenesis of hemodynamic disorders. Clinical picture. Stages of mitral regurgitation. Diagnosis. Forecast. Treatment. Indications for surgical treatment. Mitral stenosis. Etiology. Pathogenesis of hemodynamic disorders. Clinical picture. Stages of mitral stenosis. Value of instrumental data (ECG, ultrasound, radiography) in the diagnosis. Causes of decompensation. Complications. Disease prognosis. Treatment. Indications for surgical treatment. Prophylactic medical examination. Combined mitral heart disease. Identification of predominance of stenosis or regurgitation.

	6	Aortic heart disease	Aortic regurgitation. Etiology. Pathogenesis of hemodynamic disorders. Clinical picture. Instrumental methods of research. Current. Complications. Forecast. Possibilities of surgical treatment. Aortic stenosis. Etiology. Pathogenesis of hemodynamic disorders. Clinical picture. Current. Stages. Diagnosis. Complications. Disease prognosis. Indications for surgical treatment.
<b><i>Diseases of the digestive system</i></b>	7	Diseases of the esophagus	Esophageal achalasia. Hiatal hernia. Gastroesophageal reflux disease. Etiology, pathogenesis, clinical picture, instrumental methods of diagnosis. Treatment. Disease prognosis. Prevention.
	8	Chronic gastritis	Definition. Etiology. Mechanisms of damage to the gastric mucosa in HP infection. Modern classification of chronic gastritis. Formulation of the diagnosis. Clinical picture. Main syndromes (connection with the secretory function of the stomach). Diagnosis. Value of x-ray, endoscopic studies, possibility of gastrobiopsy. Invasive and non-invasive methods for diagnosing HP infection. Assessment of gastric secretory function (intragastric PH-metry). Possible complication. Indications for hospitalization. Treatment depending on etiological factors, state of secretory function of the stomach, stage (exacerbation, remission); diet, drug therapy. Schemes of antihelicobacter therapy. Principles of prescription of antacid drugs. Gastroprotectia. Current. Forecast. Prophylactic medical examination.
	9	Gastric ulcer and duodenal ulcer	Etiology. Basic and predisposing factors. Multifactoriality pathogenesis. Clinics, dependence on the location of the ulcer. Diagnosis. Value of anamnesis, physical and laboratory-instrumental examination, x-ray and endoscopic methods. Detection of violations of secretory and motor functions of the stomach. Features of the course of gastric ulcer and duodenal ulcer. Complications: perforation, bleeding, penetration, stenosis of the pylorus, or duodenum, perigastritis, periduodenitis. Special forms of peptic ulcer (ulcers of the pyloric canal, post-bulbar ulcers, multiple, giant ulcers, juvenile and ulcers in the elderly). Differential diagnosis (primary ulcerative form of gastric cancer, symptomatic ulcers). Treatment. Features diet. Treatment. Absolute and relative indications for surgical treatment.
	10	Bowel disease	Celiac disease. Definition, etiopathogenesis, classification, clinical picture, functional morphology of the small intestine, diagnosis, treatment. Irritable bowel syndrome, definition, etiology, pathogenesis, clinical picture, Bristol stool shape scale, diagnosis, differential diagnosis, treatment, prognosis.
<b><i>Diseases of the liver, biliary tract and pancreas</i></b>	11	Diseases of the biliary tract	Chronic cholecystitis and cholangitis: Etiology and pathogenesis. Significance of infection, motor disorders, cholelithiasis. Clinical picture. Diagnosis and its criteria. Possibilities of instrumental diagnostics. Complications. Treatment. Diet. Drug therapy in the period of exacerbation. Indications and contraindications to Spa treatment. Forecast. Gallstone disease: Etiology. Pathogenesis. Predisposing factor. Significance gender, age, nutrition, violations exchange. Local factor. Types of gallstones. Clinical picture. Main clinical syndromes. Painful

			and dyspeptic forms. Biliary colic. Diagnosis. Importance of ultrasound and x-ray examination. Complications. Treatment. Indications and contraindications for surgical treatment. Conservative therapy. Seizure relief. Treatment with oral solvents. Lithotripsy. Forecast. Prevention. Oddi sphincter dysfunction: Definition. Etiology and pathogenesis. Clinical implications. Clinical and instrumental laboratory diagnostics. Treatment.
	12	Chronic hepatitis	Etiology (viral infection, alcohol, industrial hazards, various medicines). Pathogenesis. Role of virus persistence and immunological disorders. Morphology. Features of the flow of different forms. Clinical and laboratory (inflammation, cytolysis, cholestasis, cell failure) syndromes. Diagnosis, the value of puncture liver biopsy, ultrasound, radionuclide and immunological methods. Differential diagnosis with fatty liver dystrophy, benign hyperbilirubinemia. Course and outcomes of the disease. Indications for use of corticosteroids and immunosuppressive drugs, antiviral drugs.
	13	Cirrhosis	Definition. Etiology (infectious, effect of alcohol and toxic substances, etc.). Pathogenesis. Role of immunological disorders. Classification. Clinical and morphological forms of the disease. Clinical picture. Main clinical syndromes. Current. Severity classes of cirrhosis according to Child-Pugh. Possibilities of clinical, laboratory and instrumental diagnostics. Diagnostic criterion. Features of clinics. Complications of cirrhosis: cirrhosis-cancer, hepatic coma, bleeding, anemia, hypersplenism, edema-ascitic syndrome. Treatment of cirrhosis. Diet. Drugs and indications for the use of immunosuppressive drugs, hepatoprotectors. Treatment of complications. Prevention. Examination of working capacity.
	14	Chronic pancreatitis	Definition. Etiology and pathogenesis. Classification. Primary and secondary pancreatitis. Clinical picture. Role of pancreatic function research and instrumental methods of research. Formulation of the diagnosis. Differential diagnosis with pancreatic cancer. Treatment. Diet depending on the form and stage of the disease. Treatment in the acute phase. Treatment in remission. Indications for surgical treatment. Disease prognosis.

## 5. Educational technology

Traditional classes are combined with the analysis of patient and his/her medical history according to the topics of the discipline:

- Testing
- Multimedia lectures
- Solving case tasks
- Writing prescriptions for various forms of drugs and solving tasks for pharmacotherapy of specific pathological conditions
- Coursework
- Independent work with literature
- Supervising patients in the departments of the therapeutic hospital.

In order to implement an individual approach to teaching students undergoing special learning process within the framework of an individual work plan, the study of this discipline is based on the following possibilities: providing out-of-class work with students including in the electronic educational environment using appropriate software equipment, forms of distance learning, possibilities of Internet resources, and individual consultations.

### 5.1. Active learning methods

#### Method of analyzing specific situations (role-playing games)

Role-playing games are an innovative method of working with students, which is aimed at stimulating independent and creative activity of students. In the course of the game, it is possible to thoroughly analyze all possible nuances of the problem, to determine students training level. Role-playing games are of instructive and supervising nature and are held during practical classes in the main sections of the discipline. Before the game starts, its tasks are read out (clinical medical history).

The lecturer suggests students to take part in the game, if no one wishes, the participants are chosen by the lecturer. The reviewers of the participants are appointed only by the lecturer from among the most successful students. The results of the game are summed up. The correctness of actions within the task, timeliness of reaction, and level of knowledge are taken into account.

*7th semester*

1. *Pneumonias.*
2. *Arterial hypertension.*

*8th semester*

1. *Infective endocarditis.*
2. *Chronic hepatitis.*

#### Method of solving case tasks

Solving case tasks in all sections of the discipline.

*7th semester*

Respiratory diseases.

Diseases of the circulatory system.



*8th semester*

Diseases of the digestive system.

Diseases of the circulatory system.

**6. Teaching and methodological support of students' individual work.**  
**Forms of current and interim assessment.**

**6.1. Plan of students' individual work**

<b>№</b>	<b>Topic</b>	<b>Type of individual work</b>	<b>Task</b>	<b>Recommended literature</b>	<b>Amount of hours</b>
1.	Pneumonias	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
2.	Suppurative lung disease	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p>	6

				<p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
3.	Bronchiectasis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
4.	Bronchial asthma	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
5.	Arterial hypertension	Preparing	To study theoretical material on	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u></p>	6

		for in-class work	the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	(Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018. 2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), & 1 more, 2018. 3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018 4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015. 5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015. 6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015	
6.	Atherosclerosis. Stable Angina Pectoris	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018. 2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), & 1 more, 2018. 3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018 4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015. 5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015. 6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015	5
7.	Acute coronary syndrome	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018. 2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), & 1 more, 2018.	6

				<p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
8.	Myocardial infarction	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Editionby Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
9.	Heart arrhythmias and blockage	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Editionby Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p>	5

				6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015	
10.	Chronic heart failure	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
11.	Acute glomerulonephritis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	5
12.	Chronic glomerulonephritis	Preparing for in-class	To study theoretical material on the topic of the class. To revise	1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan</u>	5

		work	methods for diagnosing internal organs. To answer questions for self-control	<p><u>L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
13.	Occupational pathology as a clinical discipline. Occupational diseases of healthcare workers	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
14.	Occupational diseases of the respiratory system of chemical etiology. Pneumoconiosis.	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy</p>	6

				<p>M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
15.	Vibration disease	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	6
16.	Acute and chronic poisoning by pesticides, heavy metal compounds	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S.</u></p>	6



				<u>Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015	
1.	Chronic bronchitis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1
2.	COPD	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1
3.	Acute rheumatic fever	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan</u></p>	1

			organs. To answer questions for self-control	<p><u>L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
4.	Infective endocarditis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1
5.	Mitral heart disease	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy</p>	1

				<p>M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
6.	Aortic heart disease	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1
7.	Diseases of the esophagus	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Editionby Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S.</u></p>	0,5

				<u>Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015	
8.	Chronic gastritis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Editionby Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	0,5
9.	Gastric ulcer and duodenal ulcer	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Editionby Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	0,5
10.	Bowel disease	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p>	0,5

			organs. To answer questions for self-control	<p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
11.	Diseases of the biliary tract	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1
12.	Chronic hepatitis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p>	1

				<p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	
13.	Cirrhosis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1
14.	Chronic pancreatitis	Preparing for in-class work	To study theoretical material on the topic of the class. To revise methods for diagnosing internal organs. To answer questions for self-control	<p>1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition by <u>J. Larry Jameson</u> (Author), <u>Anthony S. Fauci</u> (Author), <u>Dennis L. Kasper</u> (Author), <u>Stephen L. Hauser</u> (Author), <u>Dan L. Longo</u> (Author), <u>Joseph Loscalzo</u> (Author) , 2018.</p> <p>2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), &amp; 1 more, 2018.</p> <p>3. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth , 2018</p> <p>4. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Editionby Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.</p> <p>5. On Rounds: 1000 Internal Medicine Pearls 1st Edition , 2015.</p> <p>6. Step-Up to Medicine (Step-Up Series) 4th Edition by <u>Steven S. Agabegi</u> (Author), <u>Elizabeth D. Agebegi</u> (Author), 2015</p>	1

### **6.2. Methodological guidelines on organizing students' individual work**

Individual work of students is conducted following the methodological recommendations of the department teaching the discipline Intermediate Level Therapy, Occupational Diseases:

1. Rakhmatullov F.K., Burmistrova L.F. Respiratory diseases: Methodical recommendations for practical lessons. Penza: Penza State University Publ., 2016. p.
2. Rakhmatullov F.K., Burmistrova L.F. Diseases of the circulatory system: Methodical recommendations for practical lessons. Penza: Penza State University Publ., 2016. p.
3. Rakhmatullov F.K., Burmistrova L.F. Kidney disease: Methodical recommendations for practical lessons. Penza: Penza State University Publ., 2016. p.
4. Rakhmatullov F.K., Burmistrova L.F. Diseases of the digestive system: Methodical recommendations for practical lessons. Penza: Penza State University Publ., 2016. p.
5. Rakhmatullov F.K., Burmistrova L.F. Occupational disease: Methodical recommendations for practical lessons. Penza: Penza State University Publ., 2016. p.

### **6.3. Materials for current and interim performance assessment of students' knowledge**

#### *Competence mastering assessment*

№	Type of assessment	Monitored topics (sections)	Competences that include components under assessment
1	Tests checking	Sections № 1, 2, 3, 4, 5, 6	GC-1, GC-8, PC-1, PC-5, PC-6, PC-17, PC-20
2	Case task solution checking	Sections № 1, 2, 3, 4, 5, 6	GC-1, GC-8, PC-1, PC-5, PC-6, PC-17, PC-20
3	Practical skills checking	Sections № 1, 2, 3, 4, 5, 6	GC-1, GC-8, PC-1, PC-5, PC-6, PC-17, PC-20
4	Interview	Sections № 1, 2, 3, 4, 5, 6	GC-1, GC-8, PC-1, PC-5, PC-6, PC-17, PC-20
5	Coursework	Sections № 1, 2, 3, 4, 5, 6	GC-1, GC-8, PC-1, PC-5, PC-6, PC-17, PC-20

#### ***Sample test***

1. What is topographic and anatomical structure of the root of the left lung?
  - a) artery, bronchus, vein
  - b) bronchus, artery, vein
  - c) vein, artery, bronchus
  - d) vein, bronchus, artery
2. What is the characteristic feature of gangrene of the lung?
  - a) lack of clear boundaries inflammation
  - b) presence of multiple foci of disintegration
  - c) presence of fluid in the pleural cavity
3. What therapy is used for treating patients with mild intermittent bronchial asthma?
  - a) daily intake of anti-inflammatory drugs

- b) irregular inhalations of beta-2-agonists short-acting
  - c) daily inhalations of bronchodilators prolonged action
  - d) use of systemic glucocorticoids
4. What therapy is used for treating patients with bronchial asthma of medium severity?
- a) daily intake of anti-inflammatory drugs
  - b) irregular inhalations of beta-2-agonists long-acting
  - c) daily injection of aminophylline
5. What therapy is used for treating patients with severe bronchial asthma?
- a) daily intake of antihistamines
  - b) irregular inhalations of beta-2-agonists long-acting
  - c) daily injection of epinephrine
  - d) use of systemic glucocorticoids
6. Complications of pneumococcal pneumonia include each of the following, except for:
- A. Delayed resolution
  - B. Pleural effusion or empyema
  - C. Meningism and even meningitis
  - D. Circulatory failure
  - E. Pericarditis
  - F. Myocarditis
7. Choose the incorrect statement about staphylococcal pneumonia:
- A. It may occur as a primary or blood-borne infection from a staphylococcal lesion elsewhere
  - B. Chest X-ray may show multiple pneumatoceles
  - C. Relatively benign condition with excellent prognosis without antibiotics
  - D. Culture of sputum shows a growth of coagulase positive staphylococci
8. Choose the incorrect statement about cor pulmonale:
- A. It denotes enlargement of the right ventricle secondary to malfunctioning lungs
  - B. Pulmonary hypertension is not a prerequisite for its development
  - C. Final outcome depends on the ability to cope with the underlying pulmonary disorder rather than with the changes in the heart and circulation
9. Choose the incorrect statement about cough:
- A. It is usually an early symptom in bronchial carcinoma, but may be a relatively late development in pulmonary tuberculosis
  - B. Bovine cough refers to the explosive character of cough that is seen in laryngeal paralysis
  - C. Presence of an accompanying stridor indicates whooping or laryngeal or tracheal obstruction
  - D. In bronchiectasis it is usually loose and readily productive of sputum
10. Identify the false statement concerning aspiration pneumonia:
- A. It is also called "nonspecific pneumonia"
  - B. Acute lobular pneumonia is of more insidious onset and tends to run a more protracted course
  - C. Hypostatic pneumonia occurs in children and young adults, apparently health



### ***Criteria for assessing test answers***

- "5" - "Excellent" - 91% or more correct answers to test tasks;
- "4" - "Good" – 81-90 % correct answers to test tasks;
- "3" - "Satisfactory" - 71-80% correct answers to test tasks;
- "2" - "Unsatisfactory" - 70% or fewer correct answers to test tasks.

The test is considered correctly solved if there are 2/3 correct answers.

### ***Sample practical tasks***

1. collecting complaints, medical history, life history of the patient
2. physical examination of the patient, interpretation of the data;
3. preparing the patient examination plan;
4. interpreting laboratory and instrumental methods of examination;
5. preparing treatment plan for the patient, taking into account the results of laboratory and instrumental methods of examination, calculation of the dose of drugs depending on the glomerular filtration rate;
6. evaluating treatment effectiveness;
7. preparing the plan of dispensary supervision of the patient;
8. conducting conversations with healthy and sick patients on sanitary and hygienic topics.

### ***Criteria for assessing practical skills***

- 15 points - 91-100% correctly performed tasks.
- 13 points – 81-90% correctly performed tasks.
- 12 points – 71-80% correctly performed tasks.
- 11 points - 61-70% correctly performed tasks.
- 0 points – 60% or fewer correctly performed tasks.

### ***Sample exam questions***

1. Pneumonia: definition, etiology, classification, pathogenesis, clinical presentation, diagnostic methods.
2. Ventricular extrasystoles: etiology, classification, ECG-criteria, diagnostic methods, treatment.
3. Occupational diseases of health care workers.
4. Arterial hypertension: etiology, pathogenesis, classification of blood pressure in adults, risk factors, target organ damage, associated diseases in arterial hypertension, stages of arterial hypertension, diagnostic methods.
5. Gastroesophageal reflux disease: causes, clinical presentation, diagnosis, treatment.
6. Galvanization: method description, healing effect, indications and contraindications.
7. Infective endocarditis: etiology, pathogenesis, classification, clinical presentation, laboratory and instrumental diagnostics, diagnostic criteria, treatment.
8. Chronic gastritis: H. pylori - virulence factors, pathogenicity mechanisms, infection outcomes.

9. Electrophoresis: method description, healing effect, indications and contraindications.
10. Chronic gastritis: definition, etiology, risk factors, pathogenesis, classification, clinical presentation, diagnosis, treatment.

### ***Criteria for assessing answers to theoretical questions***

The examination card contains 3 questions

<b>35-40 points</b>	a student deeply understands the material covered, answers clearly and comprehensively, knows how to evaluate facts, independently argues, is able to substantiate conclusions and explain them in a logical sequence
<b>29-34 points</b>	a student understands the material well, cannot substantiate some conclusions theoretically, makes mistakes in reasoning
<b>24-28 points</b>	a student has a general idea of the topic, but cannot logically substantiate his/her thoughts
<b>23 or fewer points</b>	a student's answer is partially correct, serious mistakes in clarifying the material are made
<b>0 points</b>	a student gives no answer

### ***Sample case tasks***

#### ***Case task № 1***

A 29 year-old patient has a 5 year history of asthma with episodes of bronchospasm that have resulted in hospitalizations. He has been using a B2-selective adrenoreceptor agonist drug via inhalation during the day and long-acting theophylline at night. He comes to the emergency department with severe respiratory distress, cyanosis, and tachycardia. The examination is consistent with severe bronchoconstriction and shows no other complicating factors.

1. What is true about the treatment of patient?
  - (A) The use of ipratropium via inhalation is likely to exacerbate his symptoms
  - (B) Parenteral glucocorticoids should not be given until the bronchospasm is relieved
  - (C) The present problem is due to excessive use of the inhaler
  - (D) Cromolyn via inhalation should be given until the bronchospasm is relieved
  - (E) Prophylactic corticosteroid therapy after recovery from these episodes should be considered
2. What is true about drugs that could be used to treat this patient's asthma?
  - (A) The B2-selective drugs in asthma have no cardiac action
  - (B) Cromolyn blocks the airway smooth muscle contraction that occurs in response to vagal stimulation
  - (C) Chronic use of chlorpyramine leads to decrease in bronchial reactivity
  - (D) No side effects occur with the use of inhalation forms of the glucocorticoids

### ***Case task № 2***

A 30 year-old young lady has been suffering from chronic cough with bouts of dyspnea since the age of 6. Her nutritional status is not as good as one expects in an educated and well-to-do family to which she belongs (Q. 1 & 2, 3).

1. What is the most probable diagnosis?

- A. Bronchial asthma
- B. Cystic fibrosis of pancreas
- C. Chronic bronchitis
- D. Tuberculosis.

2. Identify the false statement:

- A. She should in no case get pregnant
- B. Steroid inhalation should be preferred to systemic steroid therapy
- C. Regular administration of sodium cromoglycate will be an effective prophylaxis.

3. Specify the additional methods of research (write).

### ***Evaluation criteria for solving case history***

"5" (excellent) mark is given for a complete, error-free answer. The student correctly defines the concepts and categories, identifies the main trends and contradictions, and freely uses the theoretical material.

"4" (good) mark is given for a correct and enough complete answer without mistakes and omissions. The mark may be downgrade if the student has difficulty answering the lecturer's questions. Some mistakes are made in solving case tasks.

"3" (satisfactory) mark is given for insufficiently full answer with mistakes and some knowledge gaps. The case task is not completely solved.

"2" (unsatisfactory) mark is given in the absence of theoretical knowledge, case tasks is not solved.

### ***Sample topics of course work***

Course work consists in writing a medical history.

- 1. Arterial hypertension
- 2. Chronic heart failure
- 3. Stable Angina Pectoris
- 4. Myocardial infarction
- 5. Heart defects
- 6. Cardiac arrhythmias
- 7. Infective endocarditis
- 8. Pneumonia
- 9. Chronic obstructive pulmonary disease
- 10. Bronchial asthma

11. Bronchoectatic disease
12. Lung abscess

### ***Description of indicators and evaluation criteria***

The mark for the course work is composed of rating for writing and rating for defending the course work.

Rating for writing course work is determined as follows:

<b>52-60 points</b>	The paper fully meets the requirements and scheme of writing course work. The paper is complete, literate, and logical. The student uses modern medical terminology. The student is able to consciously and quickly transform knowledge gained in characterizing theoretical, clinical, diagnostic, and treatment aspects of therapy
<b>44-51 points</b>	The paper fully meets the requirements and scheme of writing course work. The paper is complete, literate, and logical. The student uses modern medical terminology. The student follows the logic of presentation, highlights important issues, consciously uses scientific concepts, clinical symptoms, diagnostic data, basic treatment methods, but makes minor mistakes
<b>36-43 points</b>	The paper meets the requirements and scheme of writing course work. The student makes mistakes in using definitions, interpreting symptoms, applying methods of diagnosis and/or treatment
<b>35 or fewer points</b>	The material is poorly presented, mistakes in definitions are made. Significant mistakes in analyzing and presenting clinical situation are made. The paper requires amendments, corrections. The student partially describes the results of clinical examination of patient, does not understand relations between sections. The student makes mistakes in interpreting clinical symptoms, diagnosis and treatment of patient. Content of course work shows the pathology of curated patient, but at same time poor understanding and knowledge of the essence of pathology are seen. Content of course work does not show pathology of curated patient

Rating for defending course work is determined as follows:

<b>35-40 points</b>	The student deeply understands the material studied, answers clearly and comprehensively, independently argues, is able to evaluate facts, substantiate conclusions and explain them in a logical sequence.
<b>30-34 points</b>	The student understands the material, answers clearly and comprehensively, independently argues, is able to evaluate facts, substantiate conclusions and explain them in a logical sequence, but makes some general mistakes.
<b>24-29 points</b>	The student's answer has some drawbacks, the material is partially covered, there are mistakes in reasoning, a student is not able to theoretically justify some conclusions.

\*"excellent" mark is given to students, if the total amount of rate points is 87-100;

\* "good" mark is given to students, if the total amount of rate points is 73-86;

\* "satisfactory" mark is given to students, if the total amount of rate points is 60-72;

\* "unsatisfactory" mark is given to students, if the total amount of rate points is less than 60.

## **7. Methodological and information support of the discipline (module) Intermediate Level Therapy, Occupational Diseases**

### *a) basic literature:*

1. Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition by J. Larry Jameson (Author), Anthony S. Fauci (Author), Dennis L. Kasper (Author), Stephen L. Hauser (Author), Dan L. Longo (Author), Joseph Loscalzo (Author), 2018.
2. Davidson's Principles and Practice of Medicine 23rd Edition by Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon) (Editor), Ian D Penman BSc(Hons) MD FRCPE (Editor), Mark W J Strachan BSc(Hons) MD FRCPE (Editor), & 1 more, 2018.

### *b) additional literature:*

1. Oxford Textbook of Medicine Edited by David A. Warrell, Timothy M. Cox, and John D. Firth, 2018
2. Goldman-Cecil Medicine, 2-Volume Set (Cecil Textbook of Medicine) 25th Edition by Lee Goldman MD (Author), Andrew I. Schafer MD (Author), 2015.
3. On Rounds: 1000 Internal Medicine Pearls 1st Edition, 2015.
4. Step-Up to Medicine (Step-Up Series) 4th Edition by Steven S. Agabegi (Author), Elizabeth D. Agebegi (Author), 2015

### *c) Internet resources*

1. "Microsoft Windows" (subscription DreamSpark/Microsoft Imagine Standart); registration number 00037FFEBACF8FD7, contract number SD-130712001 from 12.07.2013.
2. "Kaspersky antivirus" 2016-2017, registration number KL4863RAUFQ, contract number CP-567116 from 29.08.2016.
3. free software: OpenOffice; Mozilla Firefox; Google Chrome; Adobe Acrobat Reader; 7-zip.
4. <http://www.studmedlib.ru> Consultant student
5. <http://sci-lib.com> a Library of scientific books and journals, "Sci-Lib»
6. <https://www.cdc>
7. <https://www.thoracic.org> - American thoracic society
8. <https://emedicine.medscape.com>
9. <https://www.ersnet.org> - European respiratory society
10. <https://www.escardio.org> - European society of cardiology
11. <https://www.acc.org> - American College of Cardiology
12. <https://www.theisn.org> – International society of Nephrology
13. <https://www.asn-online.org> - American Society of Nephrology



## 8. Material and technical support of the discipline



Name of special rooms and premises for individual work	Equipment of special rooms and premises for individual work	List of licensed software. Details of the supporting document
Lecture hall 10-201	Set of educational furniture: tables, chairs. Multimedia system (projector, screen, laptop).	Microsoft Windows (subscription DreamSpark/Microsoft Imagine Standart); registration number 00037FFEBACF8FD7, contract number SD-130712001 from 12.07.2013; Kaspersky anti-virus 2016-2017, registration number KL4863RAUFQ, contract number CP-567116 from 29.08.2016; free software: OpenOffice; Mozilla Firefox; Google Chrome; Adobe Acrobat Reader; 7-zip.
Classroom number 1 for practical classes G.A. Zakharyn City Clinical Hospital no. 6 according to the contract with health care facility	Set of educational furniture: tables, chairs, blackboard. Laptop. Case history of the disease with the results of studies is managed on medical equipment: -SIEMENS ACUSON X-300 Ultrasound system -X-ray apparatus, KRD-"Maxim"; - X-ray apparatus, "ABRIS" RDS - CT Scanner Toshiba "Aquilion" -MRI Scanner GE "Signa HD" 1,5 T -Astrocard "Polysystem-EP/L"; - Treadmill Astrocard "Trackmaster", - Treadmill Excite®+ "Run 600 Treadmill"; - SCHILLER Ergometer "ERG 911BP"; - Schiller "BR-102 PLUS" 24-hour ambulatory blood pressure monitoring; - SCHILLER Holter monitor "Microvit MT-101"; - SCHILLER "AT-2" ECG machine; -PHILIPS "HD 11XE" Ultrasound system ; -«Spiro-Spectrum» Spirometer; - Ergometer Medicor "KE-12"; - Bplab "MnSDP-2" 24-hour ambulatory blood pressure monitoring; - Astocard Holter monitor "HE2", according to the hospital contract.	Microsoft Windows (subscription DreamSpark/Microsoft Imagine Standart); registration number 00037FFEBACF8FD7, contract number SD-130712001 from 12.07.2013; Kaspersky anti-virus 2016-2017, registration number KL4863RAUFQ, contract number CP-567116 from 29.08.2016; free software: OpenOffice; Mozilla Firefox; Google Chrome; Adobe Acrobat Reader; 7-zip.
Training room number 2 for practical classes G.A. Zakharyn City Clinical Hospital no. 6 according to the contract	Set of educational furniture: tables, chairs, blackboard. Laptop. Case history of the disease with the results of studies is managed on medical equipment:	Microsoft Windows (subscription DreamSpark/Microsoft Imagine Standart); registration number 00037FFEBACF8FD7, contract

with health care facility	<ul style="list-style-type: none"> <li>-SIEMENS ACUSON X-300 Ultrasound system</li> <li>-X-ray apparatus, KRД-"Maxim";</li> <li>– X-ray apparatus, "ABRIS" RDS</li> <li>– CT Scanner Toshiba "Aquilion</li> <li>-MRI Scanner GE "Signa HD" 1,5 T</li> <li>-Astrocard "Polysystem-EP/L";</li> <li>– Treadmill Astrocard "Trackmaster",</li> <li>- Treadmill Excite®+ "Run 600 Treadmill";</li> <li>– SCHILLER Ergometer "ERG 911BP";</li> <li>– Schiller "BR-102 PLUS" 24-hour ambulatory blood pressure monitoring;</li> <li>– SCHILLER Holter monitor "Microvit MT-101";</li> <li>– SCHILLER "AT-2" ECG machine;</li> <li>–PHILIPS "HD 11XE" Ultrasound system ;</li> <li>–«Spiro-Spectrum» Spirometer;</li> <li>– Ergometer Medicor "KE-12";</li> <li>– Bplab "MnSDP-2" 24-hour ambulatory blood pressure monitoring;</li> <li>– Astocard Holter monitor "HE2",</li> <li>according to the hospital contract.</li> </ul>	<p>number SD-130712001 from 12.07.2013;</p> <p>Kaspersky anti-virus 2016-2017, registration number KL4863RAUFQ, contract number CP-567116 from 29.08.2016;</p> <p>free software: OpenOffice; Mozilla Firefox; Google Chrome; Adobe Acrobat Reader; 7-zip.</p>
Classroom for individual work: PSU 10-204	Set of educational furniture: tables, chairs, training board. Computers with training CDs	<p>1. Microsoft Windows (subscription DreamSpark/Microsoft Imagine Standart); registration number 00037FFEBACF8FD7, contract number SD-130712001 from 12.07.2013;</p> <p>2. Kaspersky antivirus 2016-2017, registration number KL4863RAUFQ, contract number CP-567116 from 29.08.2016;</p> <p>3.Free software: Open Office; Mozilla Firefox; Google Chrome; Adobe Acrobat Reader; 7zip</p>
Classroom for individual work: PSU 10-209	Set of educational furniture: tables, chairs, training board. Computers with training CDs	<p>1. Microsoft Windows (subscription DreamSpark/Microsoft Imagine Standart); registration number 00037FFEBACF8FD7, contract number SD-130712001 from 12.07.2013;</p> <p>2. Kaspersky antivirus" 2016-2017, registration number KL4863RAUFQ, contract number CP-567116 from 29.08.2016;</p> <p>3.Free software: Open Office; Mozilla Firefox; Google Chrome; Adobe Acrobat Reader; 7zip</p>



The study program of the discipline Intermediate Level Therapy, Occupational Disease was composed in compliance with the requirements of FSES HE and curriculum for the educational program 31.05.01 General Medicine.

The program was compiled by:

1. Associate Professor of the Department of Internal Disease  L.F. Burmistrova
2. Associate Professor of the Department of Internal Disease  T.N. Belugina

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*The program was approved at the department meeting.*

Record No. \_\_\_\_\_ dated « \_\_\_\_ » \_\_\_\_\_

Head of the Department of Internal Diseases  F.K. Rakhmatullov


*The program was approved by*

Dean of the Faculty of General Medicine  I.Ya. Moiseeva

*The program was approved by the Methodological Committee of the Medical Institute*

Record No. \_\_\_\_\_ dated « \_\_\_\_ » \_\_\_\_\_

Head of the Methodological Committee  O.V. Kalmin

*I certify that it is an accurate translation of the original document  
Translator of PSU International Projects Department  
Mariia Pchelintseva *

**Data on re-approval of the program for consecutive academic years  
and record of amendments**

Academic year	Department decision (Record No. date, signature of head of the department)	Introduced amendments	Page numbers		
			changed	new	annulled
2016-2017	No. 2, 03/09/2016	No changes	-	-	-
2017-2018	No. 2, 05.09.2017	1. Changes were made to the title page of the study program from "General practitioner" to " Medical doctor". The description of the application of educational technologies for students with disabilities was added in paragraph 5	1  1	-	-
2018-2019	No. 19 dated 05.07.18	No changes	-	-	-
2019-2020	No. 19 dated 29.06.19	No changes	-	-	-