

**Thematic plan of practical classes in the disciplines of «Internal medicine»
for students of 6 course
for the 2025 - 2026 academic year**

Days	Practical classes	№ of topics	TOPICS	Hours
1	I пара 8.30 – 9.50	пр.3 1	Management of a patient with arterial hypertension. The main diseases and conditions accompanied by arterial hypertension: essential and secondary arterial hypertension.	2
	II пара 10.00 – 11.20		Management of a patient with arterial hypertension. Differential diagnostic value of clinical manifestations and data of additional laboratory and instrumental research methods.	2
	III пара 11.30 – 12.50		Management of a patient with arterial hypertension. Non-drug and drug treatment of the main diseases accompanied by arterial hypertension. Primary and secondary prevention.	2
2.	I пара 8.30 – 9.50	пр.3 2	Management of a patient with heart rhythm disorders. Differential diagnosis of supraventricular and ventricular premature beats, atrial fibrillation and flutter.	2
	II пара 10.00 – 11.20		Management of a patient with heart rhythm disorders. The main classes of antiarrhythmic drugs, indications for their use, side effects.	2
	III пара 11.30 – 12.50		Management of a patient with heart rhythm disorders. Cardioversion. Non-medicinal methods of treatment of arrhythmias, in particular catheter procedures. Primary and secondary prevention.	2
3.	I пара 8.30 – 9.50	пр.3 3	Management of a patient with conduction disorders. Violations of sinoatrial conduction, atrioventricular blocks of various degrees, bundle branch blocks.	2
	II пара 10.00 – 11.20		Management of a patient with impaired cardiac conduction. Weak sinus node syndrome. Frederick's syndrome. ECG diagnosis. Treatment, additional instrumental methods of examination.	2
	III пара 11.30 – 12.50		Management of a patient with conduction disorders. Pacemaker implantation. Primary and secondary prevention.	2
4.	I пара 8.30 – 9.50	пр.3 4	Management of a patient with cardialgia. The main diseases and conditions accompanied by chronic pain in the chest: diseases of the cardiovascular system, diseases of the digestive system, diseases of the musculoskeletal system, panic attack syndrome. Differential diagnostic value of clinical manifestations and data of additional laboratory and instrumental research methods. Differential diagnosis algorithm. Patient management tactics.	2
	II пара 10.00 – 11.20		Management of a patient with chronic coronary syndrome. Typical and atypical angina pectoris, diagnostic criteria. Examination plan, additional laboratory and instrumental examination methods.	2

	III пара 11.30 – 12.50		Management of a patient with chronic coronary syndrome. Patient management tactics depending on the functional class. Existing standards of treatment. Endovascular and surgical methods of treatment. Primary and secondary prevention.	2
5.	I пара 8.30 – 9.50	пп.3 5	Management of a patient with cardiomegaly. Differential diagnosis of cardiomegaly in heart defects, myocarditis, cardiomyopathies. Examination plan, additional instrumental examination methods. Treatment. Non-drug, medical and surgical treatment. Primary and secondary prevention.	2
	II пара 10.00 – 11.20		Management of a patient with heart murmurs. Major diseases and conditions accompanied by systolic and/or diastolic heart murmurs. Differential diagnostic value of clinical manifestations and data of additional laboratory and instrumental research methods.	2
	III пара 11.30 – 12.50		Management of a patient with heart failure. Right ventricular, left ventricular and biventricular heart failure. Differential diagnosis depending on the leading cause. Examination plan, additional instrumental methods of examination.	2
6.	I пара 8.30 – 9.50	пп.3 6	Management of a patient with shortness of breath. The main diseases and conditions accompanied by shortness of breath. Differential diagnostic value of clinical manifestations and data of additional laboratory and instrumental research methods. Differential diagnosis algorithm. Treatment.	2
	II пара 10.00 – 11.20		Management of a patient with edema syndrome. Differential diagnosis in edemas of various genesis (cardiac, renal, alimentary, etc.). Drawing up an examination plan, the role of instrumental and laboratory methods of examination (ultrasound, radiography, ECG, general and biochemical analyses, urine test). Patient management tactics.	2
	III пара 11.30 – 12.50		Management of a patient with fever of unknown origin. Damage to organs and systems during HIV infection. The main diseases and conditions accompanied by prolonged fever: infective endocarditis, systemic connective tissue diseases, nodular polyarteritis, rheumatoid arthritis, cancers, including leukemia, lymphoma, myeloma; sepsis, tuberculosis, Crohn's disease, AIDS.	2
	IV пара 13.00 – 14.30		Management of a patient with fever of unknown origin. Damage to organs and systems during HIV infection. Algorithm of differential diagnosis. Patient management tactics. Non-medicinal and medicinal treatment of the main diseases accompanied by prolonged fever. Primary and secondary prevention.	2

7.	I пара 8.30 – 9.50	пп.3 7	Management of a patient with pain in the back and limbs. The main diseases and conditions accompanied by pain in the limbs and back: seronegative spondyloarthropathies (ankylosing spondylitis, reactive arthritis, arthritis in enterocolitis), osteochondrosis of the spine, osteoporosis, dermatomyositis/polymyositis, neuropathies.	2
	II пара 10.00 – 11.20		Management of a patient with pain in the back and limbs. Differential diagnosis algorithm. Patient management tactics. Non-medicinal and medicinal treatment of the main diseases accompanied by pain in the limbs and back.	2
	III пара 11.30 – 12.50		Management of a patient with joint syndrome. The main diseases and conditions accompanied by joint syndrome: rheumatoid arthritis, ankylosing spondylitis, reactive arthritis, gout, systemic lupus erythematosus, systemic scleroderma, dermatomyositis/polymyositis, polyarteritis nodosa, acute rheumatic fever. Algorithm of differential diagnosis. Patient management tactics. Non-drug and drug treatment.	2
8.	I пара 8.30 – 9.50	пп.3 8	Management of a patient with broncho-obstructive syndrome. The main diseases and conditions accompanied by broncho-obstructive syndrome: chronic obstructive pulmonary disease, bronchial asthma, tumors of the trachea, bronchi and mediastinum.	2
	II пара 10.00 – 11.20		Management of a patient with broncho-obstructive syndrome. Differential diagnostic value of clinical manifestations and data of additional laboratory and instrumental research methods. Algorithm of differential diagnosis.	2
	III пара 11.30 – 12.50		Management of a patient with broncho-obstructive syndrome. Treatment. Non-medicinal and medicinal treatment of the main diseases accompanied by broncho-obstructive syndrome. Primary and secondary prevention.	2
9.	I пара 8.30 – 9.50	пп.3 9	Management of a patient with infiltrative darkening of the lungs. The main diseases and conditions accompanied by a pulmonary infiltrate: pneumonia, infiltrative pulmonary tuberculosis, eosinophilic pulmonary infiltrate, lung infarction, lung cancer, benign lung tumors, pulmonary sarcoidosis, focal pneumosclerosis. Algorithm of differential diagnosis.	2
	II пара 10.00 – 11.20		Management of a patient with community-acquired pneumonia and hospital-acquired pneumonia. Differential diagnosis of bacterial, viral, allergic pneumonia, differential diagnosis of pneumonia with tuberculosis, lung tumors, lung infarction, etc. Algorithms for diagnosis and treatment of pneumonia.	2
	III пара 11.30 – 12.50		Management of a patient with hemoptysis. Management of a patient with respiratory failure. The main diseases and conditions associated with hemoptysis: malignant tumors of the bronchi and lungs, pulmonary tuberculosis, pneumonia, bronchiectasis, lung abscess, mitral stenosis, lung infarction, etc. Algorithm of differential diagnosis. Treatment.	2

10.	I пара 8.30 – 9.50	пр.3 10	Management of a patient with gastric dyspepsia. Definition. The main causes. Classification. Functional dyspepsia and its variants: epigastric pain syndrome and postprandial distress syndrome.	2
	II пара 10.00 – 11.20		Management of a patient with gastric dyspepsia. Differential diagnosis algorithm. Patient management tactics. Non-drug and drug treatment.	2
	III пара 11.30 – 12.50		Management of a patient with chronic diarrhea syndrome. Major diseases and conditions accompanied by prolonged diarrhea. The role of food component intolerance, enzymopathies and immune factors. Syndromes of malabsorption and maldigestion. Secretory, exudative, dysmotor and functional diarrhea. Basic coprological syndromes. Algorithm of differential diagnosis. Patient management tactics.	2
11	I пара 8.30 – 9.50	пр.3 11	Management of a patient with jaundice. The main diseases and conditions accompanied by jaundice: chronic hepatitis, cirrhosis and liver cancer, hemolytic anemia, gallstone disease, cancer of the head of the pancreas, cancer of the nipple, benign hyperbilirubinemia. Differential diagnostic value of clinical manifestations and data of additional laboratory and instrumental research methods.	2
	II пара 10.00 – 11.20		Management of a patient with ascites. Management of a patient with portal hypertension. The main diseases and conditions leading to the development of portal hypertension and ascites: cirrhosis and liver tumors, right ventricular heart failure. Differential diagnosis algorithm. Treatment.	2
	III пара 11.30 – 12.50		Management of a patient with hepatomegaly and hepato-lienal syndrome. The main diseases and conditions accompanied by hepatomegaly and hepatolienal syndrome: diseases of the liver parenchyma and vessels; diseases of the blood and blood-forming organs. Algorithm of differential diagnosis. Treatment.	2
12.	I пара 8.30 – 9.50	пр.3 12	Management of a patient with urinary syndrome. Definition and characteristics of components of urinary syndrome. Differential diagnosis with hematuria, leukocyturia, proteinuria. Examination plan, the role of radiological, instrumental and laboratory methods of examination.	2
	II пара 10.00 – 11.20		Management of a patient with nephrotic syndrome. Definition, etiology, pathogenesis of nephrotic syndrome. Clinical manifestations. Drawing up an examination plan, the role of instrumental and laboratory examination methods. Diagnostic criteria and differential diagnosis. Treatment.	2
	III пара 11.30 – 12.50		Management of a patient with chronic kidney disease. Definition and classification. Etiological factors. The concept of "chronic kidney disease". Classification. Pathogenesis of lesions of organs and systems, their clinical manifestations. Symptoms and changes in laboratory indicators depending on the stage. Differential treatment at different stages. Renal replacement therapy: hemodialysis, kidney transplantation. Indications and contraindications for hemodialysis, complications.	2

13.	I пара 8.30 – 9.50	пр.3 13	Management of a patient with anemia. Definition, classification, diagnostic criteria and differential diagnosis of iron-deficient and B12-deficient anemia. The main causes of iron deficiency.	2
	II пара 10.00 – 11.20		Management of a patient with anemia. Examination plan, the role of laboratory examination methods in iron-deficiency and B12-deficiency anemias. Treatment, drug and non-drug treatment. Indications for blood transfusion. Existing standards of treatment. Primary and secondary prevention.	2
	III пара 11.30 – 12.50		Management of a patient with a leukemic reaction and leukemia. Definition, main causes, classification. Differential diagnosis of leukemia and leukemoid reaction.	2
	IV пара 13.00 – 14.30		Management of a patient with a leukemic reaction and leukemia. Principles of differentiated treatment. Bone marrow transplantation. Supportive therapy. Primary and secondary prevention.	2
14.	I пара 8.30 – 9.50	пр.3 14	Management of a patient with lymphadenopathy. The main causes of lymphadenopathy. Differential diagnosis of Hodgkin's and non-Hodgkin's lymphomas, enlargement of lymph nodes in other diseases (tuberculosis, sarcoidosis, metastases, SLE, etc.).	2
	II пара 10.00 – 11.20		Management of a patient with hemorrhagic syndrome. The main diseases and conditions accompanied by hemorrhagic syndrome: hemorrhagic vasculitis, hypersensitivity vasculitis, nodular polyarteritis, idiopathic thrombocytopenic purpura, disseminated intravascular coagulation syndrome. Management of a patient with purpura. Definition. Etiology and pathogenesis, main clinical syndromes. Diagnosis criteria.	2
	III пара 11.30 – 12.50		Management of a patient with hemorrhagic syndrome. Management of a patient with purpura. Differential diagnosis algorithm. Treatment. Non-drug and drug treatment of the main diseases accompanied by purpura. Differential diagnosis of thrombocytopenic and non-thrombocytopenic purpura. Treatment, drug and non-drug treatment.	2
15	I пара 8.30 – 9.50	пр.3 15	Management of a patient with complicated hypertensive crisis. Management of a patient with cardiac asthma and pulmonary edema. Existing standards of diagnosis and emergency treatment at the pre-hospital and hospital stage. Clinical manifestations of pulmonary edema. The role of ultrasound and X-ray diagnostics. Management of a patient with complicated hypertensive crisis. Treatment tactics depending on the damage to the target organs. Further management of patients.	2
	II пара 10.00 – 11.20		Management of a patient with myocardial infarction. Management of a patient with cardiogenic shock. Acute coronary syndromes with and without ST segment elevation. Existing standards of urgent diagnosis and emergency treatment at the pre-hospital and hospital stage.	2
	III пара 11.30 – 12.50		Management of a patient with acute coronary syndrome. Management of a patient with myocardial infarction. Man-	

	IV пара 13.00 – 14.30		agement of a patient with cardiogenic shock. The role of the ECG in the diagnosis of ACS. Treatment tactics depending on ST segment elevation and the presence of a pathological Q wave. Management of a patient with acute coronary syndrome. Management of a patient with myocardial infarction. Management of a patient with cardiogenic shock. ACS complicated by cardiogenic shock. Treatment algorithms.	2
16	I пара 8.30 – 9.50 II пара 10.00 – 11.20 III пара 11.30 – 12.50	пр.3 16	Management of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death. Existing standards of urgent diagnostics at the pre-hospital and hospital stage. Management of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death. The role of scales, laboratory indicators, CT angiography data. Examples. Management of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death. Treatment tactics: conservative, surgical and combined.	2 2 2
17	I пара 8.30 – 9.50 II пара 10.00 – 11.20 III пара 11.30 – 12.50	пр.3 17	Management of a patient with paroxysmal rhythm and conduction disorders. Existing standards of urgent diagnosis and emergency treatment at the pre-hospital and hospital stage. Management of a patient with paroxysmal rhythm and conduction disorders. ECG manifestations of emergency conditions in arrhythmology. Management of a patient with paroxysmal rhythm and conduction disorders. Treatment tactics depending on the type of arrhythmia or block. Cardioversion and pacemakers. Further management of patients.	2 2 2
18	I пара 8.30 – 9.50 II пара 10.00 – 11.20 III пара 11.30 – 12.50 IV пара 13.00 – 14.30	пр.3 18	Management of a patient with severe out-of-hospital and in-hospital pneumonia. Management of a patient with total pleural effusion and pneumothorax. Existing standards of diagnosis and treatment. Treatment tactics depending on severity and spread. Management of a patient with severe out-of-hospital and in-hospital pneumonia. Management of a patient with total pleural effusion and pneumothorax. The role of X-ray, instrumental and laboratory methods of follow-up examination. Indications for pleural puncture. Management of a patient with severe out-of-hospital and in-hospital pneumonia. Management of a patient with total pleural effusion and pneumothorax. Indications for transfer to the intensive care unit, artificial lung ventilation. Further management of patients. Management of a patient with anaphylactic shock and Quincke's edema. Existing standards of diagnosis and treatment. Treatment tactics depending on the cause and severity.	2 2 2 2
19	I пара 8.30 – 9.50	пр.3 19	Management of a patient with asthmatic status. Existing standards of diagnosis and treatment. Treatment tactics depending on the stage.	2

	<p>II пара 10.00 – 11.20</p> <p>III пара 11.30 – 12.50</p> <p>IV пара 13.00 – 14.30</p>		<p>Management of a patient with asthmatic status. The role of X-ray, instrumental and laboratory methods of additional examination. Indications for transfer to the intensive care unit, artificial lung ventilation. Further management of patients.</p> <p>Management of a patient with acute liver failure. Existing standards of diagnosis and treatment. Treatment tactics depend on the cause and stage.</p> <p>Management of a patient with acute liver failure. Indications for paracentesis. Indications for transfer to the department of intensive therapy, efferent therapy. Further management of patients.</p>	<p>2</p> <p>2</p> <p>2</p>
20.	<p>I пара 8.30 – 9.50</p> <p>II пара 10.00 – 11.20</p> <p>III пара 11.30 – 12.50</p> <p>IV пара 13.00 – 14.30</p>	<p>пр.3 20</p>	<p>Management of a patient with acute kidney injury. Existing standards of diagnosis and management of patients. Conservative treatment, indications for hemodialysis. Further management of patients. Side effects of replacement therapy. Indications for transplantation.</p> <p>Management of a patient with acute abdominal pain. Management of a patient with gastrointestinal bleeding. Patient management tactics depending on the cause. The role of instrumental and laboratory methods of follow-up examination.</p> <p>Management of a patient with acute abdominal pain. Management of a patient with gastrointestinal bleeding. Indications for urgent surgical treatment. Indications for transfer to the surgical department or the intensive care unit.</p> <p>Management of a patient with acute abdominal pain. Management of a patient with gastrointestinal bleeding. Conservative treatment, indications for hemotransfusion. Indications for endoscopic hemostasis or urgent surgical treatment. Further management of patients.</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>
21.	<p>I пара 8.30 – 9.50</p> <p>II пара 10.00 – 11.20</p> <p>III пара 11.30 – 12.50</p> <p>IV пара 13.00 – 14.30</p>	<p>пр.3 21</p>	<p>Emergencies in the military therapy. General characteristics of combat injuries, classification, diagnosis. Concept of TCCC (Tactical Combat Casualty Care).</p> <p>Emergencies in the military therapy. MARCH protocol. Organization of emergency therapeutic assistance at the stages of medical evacuation. Medical assistance.</p> <p>Emergencies in the military therapy. Peculiarities of injury by poisonous substances during peacetime accidents at chemical enterprises.</p> <p>Features of management of seriously ill, incurable patients. Methodology for assessing the patient's condition. Treatment and care planning. Psychological, spiritual and social issues of palliative care for incurable patients and their relatives.</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>
22	<i>Preparing for the exam</i>			
23	<i>EXAM</i>			

