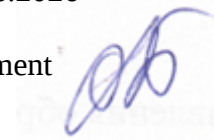


APPROVED

at the Meeting of the Department of Internal Diseases, Cardiology and Rheumatology with a course of advanced training and retraining Protocol #1 of 31.08.2026

Head of the Department



A.M.Prystrom

Credit questions

in **Internal Diseases** for the **4th** year students of the Medical Faculty for International Students at the Department of Internal Diseases, Cardiology and Rheumatology with a course of advanced training and retraining in the **fall** semester of **2026/2027** academic year

1. Acute bronchitis: definition, prevalence.
2. Acute bronchitis: diagnosis and differential diagnosis.
3. Acute bronchitis: treatment and prevention.
4. Chronic bronchitis: clinical manifestations.
5. Chronic bronchitis: diagnosis and differential diagnosis.
6. Chronic bronchitis: treatment and prevention.
7. The modern concept of COPD developed by the World Health Organization (WHO (GOLD)).
8. Variants of COPD course. Extrapulmonary manifestations of COPD.
9. Functional indicators of external respiration at different stages of COPD.
10. Complications of COPD.
11. Principles of treatment of patients with stable course and exacerbation of COPD.
12. Pneumonia: classification, pathways of pathogen penetration.
13. Pneumonia: criteria of severity.
14. Pneumonia: clinical features of the course of pneumonia, depending on the type of pathogen and the state of the immune system.
15. Laboratory, instrumental, X-ray examination methods for pneumonia.
16. Pneumonia: complications, emergency conditions in pneumonia.
17. Criteria for discharge from the hospital and recovery from pneumonia.
18. The role of spirometry and measurement of peak flow in determining the variability of symptoms and indicators of lung function in asthma.
19. Tactics of treatment of patients depending on the severity of asthma.
20. Inhalation therapy of asthma, types of inhalers.
21. Pleural effusion: Clinical and laboratory signs of exudate and transudate.
22. Clinical manifestations, diagnosis, course of pleural effusion.
23. Indications and methods of puncture of the pleural cavity.
24. Treatment of pleural effusion, indications for surgical treatment.

25. Risk factors for the development of suppurative lung diseases.
26. Clinical manifestations and diagnosis of acute and chronic abscess of lung and mediastinum, lung gangrene.
27. Principles of therapeutic methods for the treatment of suppurative lung diseases, indications for surgical treatment.
28. Pulmonary hemorrhage: diagnosis, treatment.
29. Bronchiectasis: clinical manifestations, basic diagnostic methods.
30. Complications of bronchiectasis: pulmonary and extrapulmonary.
31. Pulmonary embolism: causes and mechanisms of development.
32. Pulmonary embolism: diagnosis, emergency medical care.
33. Pulmonary hypertension: mechanisms of development, clinical classification.
34. Diagnosis of pulmonary hypertension. Laboratory diagnostic methods.
35. Risk assessment for pulmonary hypertension.
36. Mechanisms of development of acute and chronic pulmonary heart.
37. Pulmonary heart: laboratory and instrumental diagnostic methods, principles of drug treatment.
38. Classification of degrees of increase in blood pressure. Defeat of "target organs".
39. Conditions associated with arterial hypertension. Risk stratification and prognosis.
40. The scheme of examination of a patient with arterial hypertension.
41. Arterial hypertension: clinical manifestations of various variants, basic principles of treatment.
42. Symptomatic arterial hypertension: diagnosis and differential diagnosis, therapeutic tactics.
43. Types of hyperlipidemia.
44. Clinical manifestations and diagnosis of atherosclerosis.
45. Principles of treatment of atherosclerosis depending on the degree of risk of developing cardiovascular diseases and the type of hyperlipidemia.
46. Indications for surgical treatment of atherosclerosis.
47. Clinical forms of coronary heart disease (WHO classification).
48. Classification of angina pectoris.
49. Functional classes of angina pectoris.
50. Clinical variants of unstable angina pectoris.
51. Atypical clinical manifestations of angina pectoris.
52. Painless myocardial ischemia.
53. Relief of angina attack.
54. Therapeutic tactics for stable and unstable angina, possible outcomes.
55. Acute coronary syndrome: medical tactics in acute coronary syndrome with/without ST segment elevation.
56. Revascularization of the coronary arteries.
57. Prevention of acute coronary syndrome.

58. Myocardial infarction: risk factors.
59. Myocardial infarction: typical and atypical clinical variants of the onset of the disease.
60. Severity classes of myocardial infarction.
61. Periods of myocardial infarction.
62. Laboratory and instrumental methods of diagnosis of myocardial infarction.
63. Biochemical markers of myocardial damage.
64. Differential diagnosis of myocardial infarction.
65. Complications of myocardial infarction in acute and subacute periods.
66. Emergency medical care for complications of myocardial infarction.
67. Myocardial infarction: features of treatment in different periods.
68. Providing medical care for myocardial infarction at the prehospital stage.
69. Indications for surgical treatment of myocardial infarction.
70. Rehabilitation of patients after myocardial infarction.
71. Hypertension: risk factors.
72. Classification of degrees of increase in blood pressure. "Target organs".
73. Conditions associated with hypertension.
74. Hypertension: classification.
75. Scheme of examination of a patient with hypertension.
76. Hypertension: treatment.
77. Relief of hypertensive crises.
78. Symptomatic hypertension: classification.
79. Secondary hypertension: diagnosis and differential diagnosis.
80. Secondary hypertension: treatment tactics.
81. Arrhythmias and heart blocks: definition, electrophysiological mechanisms, classification, basic diagnostic methods, daily ECG monitoring, management tactics for patients with arrhythmias, classification of antiarrhythmic drugs.
80. Sinus arrhythmia, sinus bradycardia, sinus tachycardia: etiology, clinical picture, ECG diagnosis, treatment.
81. Extrasystole: etiology, classification by age, organic and functional extrasystoles. Clinical manifestations, ECG diagnosis, treatment, prevention of extrasystoles. Prognosis.
82. Atrial fibrillation and flutter: etiology, pathogenesis, classification, hemodynamic disorders, clinical symptoms, ECG diagnostics.
83. Atrial fibrillation and flutter: drug treatment of atrial fibrillation and flutter: treatment of paroxysmal and permanent forms, risk scales for thromboembolic complications and bleeding, antiplatelet and anticoagulant therapy. Preparing the patient for cardioversion. Prognosis for atrial fibrillation and flutter.
84. Paroxysmal rhythm disturbances, clinical picture (hemodynamics during an attack).
85. Paroxysmal tachycardia: ECG diagnosis of paroxysmal tachycardia. Differences between ventricular and supraventricular paroxysmal tachycardia.

86. WPW, CLC syndromes. Prognosis for paroxysmal heart rhythm disorders. Prevention of paroxysmal tachycardia attacks.
87. Algorithms for relieving an attack of paroxysmal tachycardia. Indications for transcatheter ablation of the arrhythmia source.
88. Ventricular fibrillation: etiology, clinical manifestations, ECG diagnostics, resuscitation algorithms, sudden cardiac death (main causes and prevention).
89. Heart blocks: etiology, pathogenesis, ECG diagnosis. Complications of heart blocks: Morgagni-Adams-Stokes syndrome, heart failure. Medical treatment of heart blocks, temporary pacing, pacemaker implantation, prognosis.
90. Sinoauricular heart blocks: etiology, pathogenesis, ECG diagnosis.
91. Atrioventricular heart blocks: etiology, pathogenesis, ECG diagnosis.
92. Sick sinus syndrome: definition, etiology, classification, diagnosis, medical tactics.
93. Indications for implantation of intracardiac devices (pacemakers, resynchronizing devices, cardioverter defibrillators).
94. Bleeding diathesis: definition, causes of development, types of bleeding.
95. Bleeding diathesis: classification, diagnostic methods.
96. Hemophilia: etiology, pathogenesis, clinical manifestations.
97. Hemophilia: diagnosis, treatment.
98. Immune thrombocytopenic purpura: clinical manifestations, diagnosis, treatment.
99. Secondary coagulopathies: causes, diagnosis, management tactics.
100. Hereditary hemorrhagic telangiectasia (Randu-Osler disease): the pathogenesis of bleeding, the role of hereditary factor, clinical manifestations, diagnosis, treatment.