Ministry of Health of the Republic of Belarus

«Vitebsk State Order of Peoples’ Friendship Medical University»

Department of Faculty Therapy and Cardiology with the course of FAT and RP

**LIST OF TASKS FOR THE FINAL WORK №1**

***1. ECG interpretation.***

***2. Situational problem solving (justification and formulation of diagnosis, additional examinations, treatment prescriptions).***

***3. Questions to be discussed during the final work (three questions at the teacher's discretion)***

1. Protocol for examining patients with arterial hypertension.

2. Target organ damage in arterial hypertension.

3. Differential diagnosis in arterial hypertension.

4. Treatment of patients with arterial hypertension: non-drug methods and diet, pharmacological treatment.

5. Secondary arterial hypertension: main causes, classification.

6. Hypertensive crisis: definition, etiology (endogenous and exogenous factors), mechanisms of crisis development.

7. Emergency medical care for uncomplicated hypertensive crisis.

8. Emergency medical care for hypertensive crisis complicated by acute coronary syndrome.

9. Emergency medical care for hypertensive crisis complicated by acute left ventricular failure.

10. Emergency medical care for hypertensive crisis complicated by aortic dissection.

11. Emergency medical care for hypertensive crisis complicated by subarachnoid or intracerebral hemorrhage.

12. Atherosclerosis: etiology and pathogenesis, risk factors for atherosclerosis.

13. General principles of treatment for patients with diseases caused by atherosclerosis.

14. Treatment of dyslipoproteinemia. Medications that normalize lipid metabolism.

15. Stable forms of coronary heart disease (CHD).

16. Classification of coronary heart disease.

17. Coronary heart disease: angina pectoris (classification).

18. Concept of silent myocardial ischemia.

19. Definition of sudden coronary death.

20. Diagnostic criteria for post-infarction cardiosclerosis.

21. Characteristics of pain syndrome in angina pectoris.

22. Variants of effort angina.

23. Functional classes of stable effort angina.

24. Clinical features and treatment of microcirculatory and vasospastic forms of angina.

25. The concept of unstable angina.

26. Atypical clinical manifestations of angina.

27. Instrumental diagnostics of angina.

28. Antianginal drugs.

29. Drugs that improve microcirculation and myocardial metabolism.

30. Relief of an angina attack.

31. Surgical treatment methods for coronary heart disease.

32. Acute coronary syndrome (ACS): definition.

33. Unstable angina. Clinical diagnostic criteria for progressive angina.

34. Unstable angina. Clinical and diagnostic features of spontaneous angina.

35. Acute coronary syndrome: emergency medical care at the outpatient stage.

36. Acute coronary syndrome: emergency medical care at the inpatient stage.

37. Acute coronary syndrome: indications for interventional technologies.

38. Myocardial infarction (MI): diagnostic methods.

39. Myocardial infarction: clinical forms.

40. Myocardial infarction: pharmacological treatment.

41. Myocardial infarction: choice of interventional and cardiac surgical tactics.

42. Electrocardiographic diagnosis of myocardial infarction: by lesion depth, location, and periods.

43. Complications of myocardial infarction.

44. Cardiogenic shock: types of cardiogenic shock and intensive care.

45. Pulmonary edema: intensive care.

46. ​​Indications for coronary angiography and surgical treatment for ACS and MI.

47. Myocarditis: diagnostic criteria for diagnosis.

48. Basic principles of myocarditis treatment.

49. Primary cardiomyopathies: classification, clinical manifestations of the main types of cardiomyopathy.

50. Diagnostic criteria for primary cardiomyopathies.

51. Conservative treatment options for cardiomyopathies.

52. Indications for heart transplantation in cardiomyopathies.

53. Pericarditis: classification, diagnostic criteria.

54. Indications for pericardial puncture.

55. Infective endocarditis: classification, clinical manifestations.

56. Complications of infective endocarditis.

57. Rules for performing blood cultures to identify the pathogen.

58. Characteristics of the course of infective endocarditis in the elderly and senile, alcoholics, and drug addicts.

59. Diagnostic criteria for infective endocarditis.

60. Treatment of infective endocarditis.

61. Antibiotic therapy for infective endocarditis.

62. Treatment of patients with cardiac arrhythmias and severe hemodynamic impairment.

63. Ventricular pre-excitation syndromes: terminology, causes, pathogenesis, clinical manifestations, ECG criteria, rhythm disturbance mechanisms, and treatment options.

64. Treatment of paroxysmal atrial fibrillation/flutter.

65. Treatment of persistent atrial fibrillation/flutter.

66. Treatment of persistent atrial fibrillation/flutter.

67. Intensive care for paroxysmal supraventricular and ventricular tachycardia.

68. Sinoatrial, atrioventricular, and intraventricular conduction disturbances. Causes and clinical manifestations.

69. Pharmacological and non-pharmacological treatment of bradyarrhythmias.

70. Pharmacological and non-drug treatment of tachyarrhythmias.

71. Sick sinus syndrome: clinical manifestations.

72. Morgagni-Adams-Stokes syndrome in rhythm and conduction disorders. Intensive care.

73. Classification of antiarrhythmic drugs.

74. Indications for differentiated administration of antiarrhythmic drugs.

75. Treatment methods for arrhythmias and cardiac conduction disorders.

76. Electrical defibrillation, types of temporary electrical stimulation of the heart.

77. Indications for permanent pacemaker implantation.

78. Acquired heart defects. The main causes of structural and functional disorders of the valvular apparatus of the heart.

79. Clinical symptoms of aortic valve defects.

80. Clinical symptoms of mitral valve defects.

81. Clinical symptoms of tricuspid valve defects.

82. Clinical symptoms of pulmonary valve defects.

83. Prevention of infective endocarditis and thromboembolism in patients with heart defects.

84. Treatment strategies for acquired heart defects.