

**The Questionnaire of the State Examination in Cardiology Department of Cardiology of the  
Faculty of General Medicine 2019/2020 academic year**

1. Electrocardiography (ECG). The Basics of ECG. ECG waveforms and intervals, the main ECG leads, normal ECG.
2. The classification and mechanisms of ventricular arrhythmias.
3. Atrial fibrillation, clinical types and treatment approaches.
4. Atrioventricular (AV) blocks. I, II, III degree AV blocks: ECG diagnostics.
5. Chronic heart failure, classification, clinical symptoms, diagnosis and treatment.
6. Intensive cardiac care and reanimation in cardiology. The physician's approach during circulatory arrest. Cardiopulmonary resuscitation (CPR). Evaluation and management of the condition, the realization approaches of urgent procedures.
7. The treatment of acute cardiac failure according to the level of severity.
8. Ischemic heart disease (IHD). Angina. Etiology, pathogenesis, classification, clinical presentation, the characteristics of pain, the ECG and stress ECG diagnostics of stable angina.
9. Myocardial infarction (MI). Etiology, pathogenesis, classification, diagnostics, clinical symptoms (typical and atypical forms) and differential diagnosis. STEMI and non-STEMI. ECG diagnostics of myocardial infarction, ECG changes.
10. Acute heart failure: pulmonary edema and cardiogenic shock.
11. The treatment of non-complicated myocardial infarction. The indications of urgent percutaneous coronary intervention (PTCA) and coronary bypass surgery.
12. The complications of MI, acute cardiac failure, the evaluation of severity.
13. Arterial hypertension. Risk factors, pathogenesis, clinical presentation, complications, diagnosis.
14. The pharmacological management of arterial hypertension. Classification of antihypertensive drugs. The selection of optimal drug therapy in different clinical situations.
15. Secondary Arterial Hypertension. Classification, clinical characteristics, differential diagnosis, principles of pharmacological therapy.
16. Renal symptomatic (secondary) arterial hypertension. Differential diagnosis, treatment principles.
17. Endocrine symptomatic (secondary) arterial hypertension. Differential diagnosis, treatment principles.
18. Atrial septal defect (ASD). The instrumental diagnostic methods. Indications for surgical treatment. The pathogenesis of hemodynamical disorders, clinical presentation, symptomology, diagnosis.
19. Mitral stenosis. Hemodynamics, clinical presentations, complications, treatment.
20. Mitral insufficiency (MI). Hemodynamics, clinical presentations, complications, treatment.
21. Aortic stenosis. Etiology. Hemodynamics, clinical presentations, echocardiographic assessment of severity, complications, treatment.
22. Aortic insufficiency (AI). Hemodynamics, clinical presentations, complications, treatment.
23. Dilated cardiomyopathy. Morphology, pathophysiology, etiopathogenesis, types, clinical symptoms, diagnosis, differential diagnosis, treatment, prognosis.
24. Hypertrophic cardiomyopathy. Morphology, clinical symptoms, diagnostic parameters, differential diagnosis, complications, treatment.
25. Infective endocarditis. Etiology, pathogenesis, clinical symptoms, types

according to disease course, complications, differential diagnosis and diagnosis.

26. Infective endocarditis. Principles of pharmacological therapy, indications for surgical treatment, prognosis and prevention.

27. Pulmonary artery thromboembolism. Etiologic factors. Clinical presentation, Treatment. Prevention.

28. Pulmonary hypertension. Etiology, classification according to Donna, clinical presentation, treatment, prognosis.

Literature:

Number 1 – 3, 5 - 10, 12 – 14, 18 - 28 themes from Harrison`s Internal Medicine 19th ed.,

Number 4 and 11 themes from Kanu Chatterjee 2013, first edition.

Number 15, 16, 17 theme is provided by the Department of Cardiology.

Chairman of Cardiology Department

Professor, MD,PhD Sisakyan H.S.