

**QUESTIONS FOR CREDIT IN “EMERGENCY CARDIOLOGY AND
OTHER EMERGENCY CONDITIONS”
FOR THE 6th-YEAR STUDENTS OF THE MEDICAL FACULTY FOR
INTERNATIONAL STUDENTS**

1. Sudden cardiac death, etiology, pathogenesis of cessation of cardiac activity, risk factors.
2. Clinical, biological, «brain» death. Asystole. Ventricular tachycardia. Ventricular fibrillation. Emergency medical care for ventricular tachycardia, ventricular fibrillation, asystole.
3. Sequence and technique of the main resuscitation measures in case of cardiac arrest. Typical mistakes during resuscitation. Cardiovascular postresuscitation complications.
4. Primary and secondary prevention of sudden cardiac death.
5. A differentiated approach to the use of functional, instrumental, interventional and cardiosurgical technologies in emergency cardiology (echocardiography, Holter monitoring, stress tests, single-photon emission computed tomography, magnetic resonance imaging).
6. Coronary angiography, indications for intervention manipulations and cardiac surgery in patients with cardiovascular pathology.
7. Classifications, mechanisms of formation and clinical and diagnostic criteria of hypertensive crises, emergency medical care, indications for hospitalization.
8. Hypertensive crises complicated by acute coronary syndrome, acute left ventricular failure, aortic aneurysm dissection, subarachnoid, intracerebral hemorrhage. Primary and secondary prevention of cerebral infarction.
9. Basic approaches to the stratification of cardiovascular risk. Principles of primary prevention of cardiovascular diseases.
10. Non-medication methods of prevention, the importance of reducing table salt in the diet, complex modification of the diet, principles of physical training. Secondary prevention of cardiovascular events.
11. Commitment to drug therapy. Groups of drugs that reliably reduce the death rate of people with postinfarction atherosclerosis. Ways to reduce mortality from diseases of the circulatory system, the experience of foreign countries, the problems of the national health system.
12. Acute cardiovascular insufficiency: classification, etiology, diagnostic criteria.
13. Differentiated approach to emergency medical care in acute cardiovascular insufficiency.
14. Clinical picture and diagnosis of acute left ventricular failure, differential diagnosis, emergency medical care (reduction of preload on the heart, pressure in the pulmonary circulation, reduction of circulating fluid volume).
15. Pulmonary embolism: etiology, risk factors, pathogenesis, clinical manifestations, differential diagnosis, therapeutic tactics.
16. Management tactics in acute coronary syndrome with and without ST segment elevation in comorbid patients at the prehospital stage and during hospital

treatment, risk stratification, emergency medical care (differentiated approach), methods of reperfusion therapy.

17. Drug therapy depending on the method of reperfusion of the infarct-related artery. Thrombolytic, antiplatelet and anticoagulant therapy. Indications for percutaneous coronary intervention and cardiac surgery.

18. Syncope: diagnostic criteria, classification. Algorithm of diagnosis and treatment of syncopal conditions.

19. Stratification of the risk of sudden death in patients with syncope. Causes of neuroreflex and orthostatic syncopal syndrome.

20. Syncope of cardiovascular genesis. Special syncope. The examination program for differential diagnosis in syncope.

21. Scheme of diagnostic search in a patient with a prolonged loss of consciousness. Emergency medical care in case of syncope.

22. The main etiological and pathogenetic aspects of rhythm and conduction disorders. Stratification criteria for the severity of arrhythmia.

23. Extrasystole, paroxysmal tachycardia, atrial fibrillation/flutter: diagnosis, therapeutic tactics.

24. Sinoatrial, atrioventricular blockages: diagnostics, therapeutic tactics. Wolf-Parkinson-White syndrome (WPW): pathogenesis, ECG criteria, classification, diagnostic and therapeutic tactics.

25. Pacemakers, cardioverter-defibrillators, resynchronizing devices: principles of operation, indications and contraindications for the installation.

26. Acute respiratory failure, acute ischemic encephalopathy, acute hepatic and renal insufficiency, peculiarities of diagnosis and treatment. The concept of multiple organ failure. Treatment and diagnosis tactics in various combinations of acute cardiovascular, acute respiratory failure, acute ischemic encephalopathy, acute hepatic and renal insufficiency. Diagnosis and emergency medical care in case of bleeding from various sources.

27. Shock: pathogenesis, classification, diagnostic criteria. Stages, manifestations and basic mechanisms of shock development. Cardiogenic, anaphylactic, hypovolemic, septic shock: emergency medical care.