The list of questions to Course examination in hospital surgery
(unit «Cardiovascular surgery», 10 semester)

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Arterial diseases

7. Chronic ischemia of the brain and upper extremities. The clinical manifestations, diagnosis and treatment.
11. Classification of aneurysms considering the etiological factor, the structure of the wall and types.
15. Endovascular embolization. Usage and indications. Technique and material used for embolization.
19. Methods of investigation of blood vessels (ultrasound methods, spiral CT, MRI-angiography, arteriography, radionuclide methods of investigation).


27. Stenosis disease of branches of the aorta. Chronic ischemia of upper extremities.


31. Thromboembolism of the terminal aorta and its branches. Causes, clinical features, stage of acute lower limb ischemia, treatment tactics.

32. Thrombolytic therapy for acute occlusive peripheral vascular disease. Indications, essential drugs, methods of administration, dosage.


34. Traumatic vascular lesions. The frequency, pathophysiology, diagnosis and treatment.
Venous diseases

1. Anatomical-physiological preconditions of varicose veins of the lower extremities.
5. Definition of thrombophlebitis and phlebothrombosis. The etiology, pathogenesis, clinical features.
7. Endemic lymphedema.
9. Lymphangioma.
11. Lymphedema, lymphostasis, elephantiasis.
15. Pulmonary thromboembolism. Diagnosis: Key diagnostic tasks, screening (mandatory) methods, the indicated investigations. Differential diagnosis.
22. The anatomical structure of the venous system of lower limbs.
23. Thrombophlebitis of deep veins of the lower extremities. The clinical picture, diagnosis, treatment, complications.
32. Varicose veins diseases of the lower extremities. The clinic, diagnostic techniques, prophylactics.

Cardiac surgery

10. Basic principles of surgery on the heart. "closed" and "open" heart surgery.


25. Heart valves prosthesis. The main advantages and disadvantages of mechanical and biological prostheses.


27. Methods to ensure operation in a "dry" or “non bleeding” heart: hypothermia, extracorporeal circulation. Auxiliary or extra circulation.


32. Reconstructive (plastic surgery) on the heart valves. Indications and contraindications.


34. Tumors of the heart. Classification, pathomorphology, diagnosis and treatment.