

CARDIOVASCULAR SURGERY

1. Anatomy of the heart and great vessels. Major vessels of the neck.
Mediastinum – definition, anatomy and contents.
2. Congenital heart defects - classification, diagnosis, surgery
3. Ischemic heart disease. Surgical treatment. Indications for myocardial revascularization. Arterial and venous bypass grafts
4. Surgical treatment of complications of acute myocardial infarction
5. Acquired valvular heart disease - etiology, diagnosis, operative technique, indications for surgery
6. Pulmonary embolism - etiology, clinical features, diagnosis, treatment
7. Aneurysms – classification, clinical manifestations, diagnosis, surgical treatment – indications
8. Acute aortic dissection - risk factors, classification, clinical manifestations, diagnosis, indications and operative techniques
9. Cardiac tumors – clinical manifestation, diagnosis and treatment
10. Cardio-vascular injuries - diagnosis and treatment. Iatrogenic injuries
11. Temporary and permanent electrocardiostimulation
12. Acute arterial insufficiency of the extremities and mesenteric arteries - clinical features, diagnosis, treatment
13. Chronic arterial occlusive disease of the extremities – clinical features, classification, diagnosis, operative techniques
14. Obliterating atherosclerosis, Thromboangiitis obliterans, diabetic angiopathy - specific features
15. Raynaud's disease, Raynaud syndrome

16. Superficial and deep thrombophlebitis. Phlegmasia cerulea dolens
17. Varicose disease - etiology, clinical manifestations, treatment
18. Postphlebitic syndrome. Paget–Schroetter disease – clinical features and treatment
19. Acute and chronic lymphatic insufficiency
20. Anticoagulant and fibrinolytic therapy in surgery – principles
21. Stenotic-obliterative diseases of extracranial arteries - surgical techniques

Resources:

1. *Lecture course*
2. *Manual of Cardiac and Vascular Surgery- 2019.*
3. *Cardiac Surgery, Kirklin/Barratt-Boyes, 4th edition*
4. *Rutherford's Vascular Surgery, 8th edition*
5. *Multimedia manual of cardiac surgery. (ctsnet.org)*