

## **List of questions on the final module from discipline «General surgery»**

1. History of surgery ancient times (Egypt, Babylon, India, China, Greece, the Roman Empire).
2. Antiseptic: history, role I. Zemmelveys, N.I. Pyrohov, L. Paster, D. Lister.
3. Types of antiseptis.
4. Antiseptic agents: aldehydes, haloides, oxidizing agents, acids, alkalis, solution C-4.
5. Antiseptic substances: phenols, dyes, detergents, salts of heavy metals.
6. Antibiotics, rules of administration. Errors antibiotic therapy.
7. Asepsis. Definition. History of implementation. Gloves of love. Ways of spreading of infection in the wound.
8. Types of sterilization (dry heat, in autoclave). Methods of control of quality of sterilization.
9. Sanitation in operating block. Functional areas of operating unit.
10. Methods of processing of the surgeons hands (Furbringer, Alfeld, SpasokukotskyKochergin, with solution C-4) and of the surgical field.
11. Bleeding. Classification. Clinic. Index of Allgovery.
12. Qualitative and quantitative composition of the blood, hematocrit, VCB, the formula for determining the VCB.
13. Methods to arrest of bleeding. Rules of applying tourniquet.
14. Bleeding in soft tissue and serous cavities. Clinic, diagnostic.
15. Hemothorax: definition, types, clinical manifestations, diagnostic, test of Ruvilua – Gregoire, treatment.
16. Hemoperitoneum. Clinic, diagnostic. Technique of laparocentesis. Contraindications for laparocentesis.
17. Hemorrhagic shock. Index of Allgovery.
18. Blood groups. History of discovery, determination methods. Possible errors in the determination.
19. Rh- factor. Methods of determination.
20. History of blood transfusion. Rule of Ottenberg.
21. Indications and contraindications for hemotransfusion. Rules of blood transfusion. Tests to determine compatibility of donor and recipient blood.
22. The value of the Rh - factor in blood transfusion. Technic of Rh compatibility test.
23. Reinfusion of blood. Indication. Advantages.
24. Complications of transfusion of blood and its components.
25. Acute surgical infection. Classification. Infection agents.  
Clinical symptoms. Treatment.
26. Boil. Carbuncle, definition, etiopathogenesis, clinical picture, diagnosis, treatment, complications.
27. Phlegmon. Stages of development. The clinic, diagnosis, treatment.
28. Abscess: etiopathogenesis, clinical picture, diagnosis, treatment. Symptom of fluctuation.
29. Erysipelas, etiopathogenesis, clinical picture, diagnosis, treatment.
30. Hydroadenitis: definition, etiopathogenesis, clinical picture, diagnosis, treatment, complications.
31. Lymphangitis, lymphadenitis: etiopathogenesis, clinical picture, diagnosis, treatment, complications.
32. Phlebitis, thrombophlebitis, etiopathogenesis, clinical picture, diagnosis, treatment. Paget's - Shretter-Kristelli diseases. The clinic, diagnosis, treatment. Mondor's diseases. The clinic, diagnosis, treatment.
33. Mastitis: etiopathogenesis, classification, clinical picture, diagnosis, treatment.
34. Paraproctitis: etiopathogenesis, classification, clinical picture, diagnosis, treatment.
35. Peritonitis. Classification. Stages. The clinic, diagnostic, treatment.
36. Acute hematogenous osteomyelitis, etiopathogenesis. Theories of development, clinical picture, diagnosis, treatment.
37. Felon. Classification, clinic, diagnostic, treatment.
38. Gas gangrene: pathogens, clinical features, diagnostic, treatment. Method of Guillotine amputation.
39. Tetanus: etiopathogenesis, clinical symptoms, treatment, emergency prevention.
40. Rabies: etiopathogenesis, clinical symptoms, treatment, emergency prevention.
41. Sepsis: etiopathogenesis, classification (SIRS), clinical features, diagnosis, treatment.
42. Trauma. Classification. Traumatic disease (stages).
43. Closed soft tissue injury (concussions, contusion, tension, ruptures), clinic, treatment.
44. Crash - syndrome: etiopathogenesis, stages, clinic, treatment. Just married disease.
45. Closed trauma of the brain (concussion, contusion, compression) pathological and clinical picture, severity of impaired consciousness. Glasgow coma scale. Treatment.
46. Pneumothorax: classification, mechanism of origin, clinical features, diagnostic, treatment.

47. Closed injuries of the abdomen. Clinical symptoms, diagnostic tactics. Technic of laparocentesis. Contraindications to laparocentesis.
48. Dislocations. Classification. Clinic. Diagnostic. First aid.
49. Methods of reduction of dislocations of shoulder (Hippocrates, Kocher, Djanelidze).
50. Fractures. Classification. The clinic, diagnostic, first aid. Rules of imposition of splints
51. Healing of fractures. Primary and secondary callus.
52. Methods of reposition fragments. Skeletal stretching.
53. Rules of applying of plaster of Paris, its advantages and disadvantages. Possible complications and their prevention.
54. Burns. Stages, Methods for determining the area and depth of burns. Index of Frank.
55. Chemical burns: symptoms, types, first aid, treatment.
56. Radiation burns: pathogenesis, clinical features, treatment.
57. Burn disease, stages. Main principles of treatment. Transfusion therapy (Parklands formula).
58. Electrical burns: pathogenesis, clinic, emergency aid.
59. Frost-bites: stages, first aid, treatment.
60. The general freezing: stages, treatment.
61. Wounds. Classification of wounds. History of wounds treatment (Hippocrates, Claudius Galen, Ambroise Paré, Paul Friedrih).
62. The phases of wound healing, their characteristics.
63. Gunshot wound. Features. Treatment.
64. Types of wound healing. Layers of granulation tissue.
65. Ether narcosis. History of the discovery of ether narcosis. Birthday of narcosis.
66. Malignant tumors. Etiology, pathogenesis. Classification system TNMPG.
67. Stages of ether narcosis. Features of ether. Positive and negative sides of ether anesthesia.
68. Shock: definition, classification. The concept of centralization of blood circulation.
69. Acute venous insufficiency: etiopatogenesis, clinic, diagnostics, treatment.
70. The theory of the origin of malignant tumors.
71. Inhalation narcosis: the benefits, types. Complications.
72. Diagnostic of malignant tumors. Clinical groups.
73. Terminal conditions. Pathophysiology. First aid, intensive therapy.
74. Infiltration anesthesia: local anesthetics, their pharmacodynamics, indications for use.
75. Spinal anesthesia. Indications, contraindications for use. Complications and their prevention.
76. Chronic insufficiency of arterial blood circulation. The clinic, diagnosis and treatment.
77. CAB resuscitation. History of discovery of cardiopulmonary resuscitation.
78. Shock. Theory, shock phases, their characteristics.
79. The radiation therapy of malignant tumors. Methods, possible complications, their prevention and treatment.
80. Acute arterial occlusion of vessels. The clinic, diagnostic and treatment.
81. Epidural anesthesia. Technique. Indications, contraindications for. Complications, prevention and treatment of complications.
82. Malignant neoplasms: clinical stages.
83. NLA. Definition. Methods of conducting. Indications to using.
84. Methods of artificial ventilation (by Silvester, Labordy, Shaffer, mouth to mouth).
85. Hypovolemic shock: classification, pathophysiology, clinic, intensive care.
86. Narcosis by nitrous oxide: History of the discovery, characterization of nitrous oxide, a technique, indications for use.
87. Conduction anesthesia, types, technology implementation. Possible complications and their prevention and treatment.
88. Cardiopulmonary resuscitation. History of the discovery. Technique of performing.
89. Distant metastases of malignant tumors. Ways of metastases spreading. Metastases of Schnitzler, Virchow, Krukenberg, sister Mary Joseph.
90. Trophic ulcer. Clinic. Topographic anatomical study of localization of venous ulcers by varicose veins of the lower extremities.
91. The history of the discovery of the local anesthesia.
92. Muscle relaxants, kinds according to mechanisms of action, types of antagonists of muscle relaxants.
93. Extracorporeal detoxication, kinds.

94. Phases traumatic shock after N.I. Pirogov, their characteristics.
95. The principles of oncological operations.
96. Infiltrative anesthesia according A.I. Wishnevsky, history of the discovery, the technique of performing.
97. Terminal anesthesia. The drugs, dosages, indications and contraindications for, prevention of complications.
98. Differential diagnosis of benign and malignant tumors (Hayflick limit).
99. Preoperative preparation. Classification of degrees of operational and anesthetic risk (ASA).
100. Complex treatment of malignant tumors.
101. The chemotherapy of malignant tumors.
102. Congenital malformations of the limbs.
103. Chronic venous insufficiency: etiology and pathogenesis, clinical manifestations, diagnosis, treatment.
104. Ketamine narcosis. Stages. Indications and contraindications. Possible complications and their prevention.
105. Gangrene, causes and classification. The clinic, diagnosis and treatment.
106. Hormonotherapy of malignant tumors.
107. The congenital disorders (malformations) of the gastrointestinal tract and abdominal organs. The clinic, diagnosis and treatment.
108. Non-inhalation narcosis, barbiturates, characteristics, indications and contraindications for use, complications and their prevention and treatment.
109. Fistula. Classification. The clinic, diagnosis and treatment.
110. Congenital malformations of the urinary system.
111. Pulmonary embolism. Pathogenesis. The clinic, diagnosis and treatment.
112. Chloroform narcosis: History of discovery. Advantages and disadvantages of chloroform anesthesia. Possible complications.
113. Types of cardiac arrest. Methods for cardiopulmonary resuscitation. History of cardiopulmonary resuscitation.
114. Vago-sympathetic blockade by Wishnevsky: indications, technique, criteria of correct performance (Horner's syndrome).
115. Stages of lower limb ischemia. Syndrome «claudicatio intermittens».
116. Endotracheal narcosis. Technique. Benefits. Possible complications (Mendelson's syndrome, causes, clinical picture, prevention, treatment).
117. Novocaine blockade (by Kullenkapf, Shkolnikov-Selivanov, Oberst-Lucashevitch). Technique of performing. Possible complications, their prevention and treatment.
118. Bedsores: causes, clinical picture, prevention and treatment.
119. Complications in early after narcosis period (recurarization), causes, prevention, first aid.
120. Immunotherapy of malignant tumors.

Head of course  
of «General surgery»  
docent

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