

## QUESTIONS FOR SURGICAL PROPEDEUTICS EXAM

1. Urinary retention (causes, symptoms, treatment). Anuria, oliguria.
2. Frostbite, hypothermia, first aid, care principles.
3. Physical examination of locomotive apparatus.
4. Criteria of clinical, biological and brain death.
5. Basic surgical procedures (resection, nonresection techniques, ablation, palliative, biliodigestive anastomosis).
6. Principals of sepsis and antisepsis. Definition, history. Antisepsis, antiseptic solutions. Sterilisation, disinfection.
7. Cardiopulmocerebral resuscitation (indication, technique of resuscitation).
8. Local anesthesia (types, indications, technique, complications).
9. General anesthesia (premedication, induction, types of anesthesia, complications).
10. Postoperative care of surgical patient (monitoring, ICU care).
11. Thromboembolic disease.
12. Nosocomial infections, surgical site infections, symptoms, prevention and treatment.
13. SIRS, bacteriemia, sepsis.
14. Polytrauma.
15. Live threatening conditions in surgical patients (ATOM FC conception).
16. Principals of bone fractures treatment (conservative, surgical).
17. Injuries of tendons. Diagnostics and treatment.
18. Large colon procedures (resections, nonresections, stomies).
19. Injuries of peripheral vessels. Diagnostics, first aid, temporary and terminal treatment.
20. Crush syndrome. Compartment syndrome, reperfusion syndrome.
21. Blast syndrome.
22. Infusions, plasma expanders (general characteristics, principles of administration).
23. Organ and tissue transplantation (basic terms). Immunology of transplantation. Types of graft separation.
24. Enteral and parenteral nutrition. Gastrostomy, jejunostomy (characteristics, technique, complications).
25. Chest trauma (first aid, diagnostics, basic principles of treatment, complications of chest fractures).
26. Wound classification. Wound healing. Factors affecting healing (healing per primam, secundam, tertiam intentionem).
27. Electric injury, lightning injury (mechanism, first aid).
28. Airway (intubation, coniotomy, tracheostomy, indication, technique, complications).
29. Amputations (indication, technique, postoperative care).
30. Blood transfusion, technique, obligatory examination, complications and their treatment. Autologous transfusion. Blood derivatives and plasma derivatives and their use in clinical practice.
31. Air and fat embolism.
32. Types of hypovolemic shock (classification, causes, treatment).
33. Diabetes in surgery, surgical complications of diabetes.
34. Shock in general meaning (classification, etiopathogenesis, prevention, signs, treatment).
35. Septic and anaphylactic shock (clinical symptomatology, patophysiology, treatment).
36. Osteomyelitis.

37. Most common postoperative complications (hypoxia, bleeding, ileus).
38. Soft tissue infection (folliculitis, furuncle, carbuncle, abscess, phlegmona, hidradenitis, lymphangitis, lymphadenitis).
39. Hemostasis in surgical patient. Disorders of hemostasis and their compensation.
40. Finger and hand infection (causes, pathways of spreading, diagnostics, treatment).
41. Anaerobic infections, Tetanus.
42. Joint injuries (subluxation, luxation).
43. Healing of the tissues, factors that influence healing of bones, muscles, nerves, tendons.
44. Osteosynthesis (indications, basic methods).
45. Fractures, fracture mechanism, types, dislocations, principles of the treatment.
46. Invasive and non-invasive investigation and imaging methods in respiratory tract diseases.
47. Invasive and non-invasive investigation and imaging methods in diseases of hepato-pancreatic tract.
48. Invasive and non-invasive investigation and imaging methods of abdominal cavity and gastrointestinal tract diseases.
49. Acid-base disorders and basic electrolytes imbalance in surgical patients.
50. Preoperative preparation of patient depending on the type of surgery (emergent, urgent, elective).
51. Closed head injuries (grades of unconsciousness, diagnostics, first aid, transport/manipulation with patient, basic principles of treatment).
52. Closed chest injuries (pneumothorax, subcutaneous emphysema, diagnostics, first aid, basic principles of treatment).
53. Injuries of parenchymatous organs of abdominal cavity (consequences of injury, diagnostic approach).
54. Injuries of hollow organs of abdominal cavity (consequences of injury, diagnostic approach).
55. Thrombophlebitis, phlebothrombosis (definition, causes, clinical symptoms).
56. Burns, mechanism of burn injury, division, first aid. Principles of local and general treatment of burns. Burn shock, changes in organism, inhalation injury, resuscitation, vital function monitoring, principles of treatment.
57. Algorithm of clinical and auxiliary investigations in establishing a diagnosis, differential diagnosis in surgical patients (anamnesis, physical examination, imaging and laboratory investigation).
58. Acute and chronic lower limb ischemia (signs, diagnostics and treatment principles).
59. Tumorous diseases in general (benign and malignant tumours, TNM classification of malignant tumours, grading, staging).
60. Pressure/decubitus ulcers – causes of genesis (local, general), prevention and treatment.