

SURGERY – STATE BOARD EXAMINATION

A: 1 – 21 B: 22 – 63 C: 64 - 114

1. Wounds, classification, phases of the healing. Factors affecting wound's healing.
Principles of wound management. Per primam, per secundam, per tertiam intentionem healing.
2. Parenteral nutrition (principles of indications, preparations, complications).
3. Blood transfusion, indications, complications. Algorithm for applying a blood transfusion.
Blood derivatives.
4. Donor and transplant program in surgery.
5. Diabetic foot (macroangiopathy and microangiopathy, neuropathy, osteopathy, infection).
Principles of prevention and treatment.
6. Inflammatory diseases of the fingers and hand – paronychia (clinical features, diagnosis, surgical treatment).
7. Antibiotics and chemotherapeutics in surgery. Indications, principles of application. dosing.
Bacteriological monitoring. Prophylactic and therapeutic use of antibiotics.
8. Asepsis and antisepsis, definition. Surgical infections. Nosocomial infections in surgery-
definition, types, bacteriological monitoring. Treatment. Complications in surgical wound
from infection.
9. Hemostasis disorder in surgical patients during preoperative and postoperative period and
after injury.
10. Preoperative surgical patient examination. Risk factors, polymorbidity. Preparation of
patient before the operation and general anesthesia.
11. Brain death. Indications and contraindications for removal of organs from cadavers.
12. Multiple injury (definition, first aid, diagnostic principles, priority of therapeutical
measures).
13. Traumatic and hemorrhagic shock (pathophysiology, prevention, treatment).
14. Pain in acute abdomen – characteristics, differential diagnosis. Visceral pain, somatic pain
(causes, examples).
15. Postoperative complications (cardiovascular, pulmonary, kidney function disorders).
16. Postoperative complications of the GIT. Complications in the surgical wound, bedsores.
17. Sepsis and septic shock – definition, etiology, pathophysiology, clinical
manifestations, diagnosis, SOFA score, complications, and treatment.
18. Burns (causes, classification, burn shock, burns complications, treatment).
19. Blast syndrome and Crush syndrome (clinical picture, diagnosis, surgical treatment).
20. Benign and malignant tumors, precancers. Growth and spread of malignant tumors,
diagnosis, treatment, primary and secondary prevention of tumors. Tumor classification.
Basics of oncological surgery.

21. The body's reaction to injury, surgery and general anesthesia (metabolic, endocrine, immunological and ventilation changes).
22. Breast diseases (tumor diseases, benign and malignant tumors, clinical features, diagnosis, TNM classification, surgical and non-surgical treatment).
23. Malignant tumors of large intestine (clinical features, diagnosis, surgical therapy. TNM classification, staging and grading, Complications of the colon cancer. Precancerosis of the colon).
24. Benign and malignant tumors of small intestine (clinical features, diagnosis, surgical treatment).
25. Precancerosis and malignant tumors of the stomach, Ca in situ, early cancer and other stages of carcinoma (clinical features, diagnosis, surgical treatment).
26. Benign and malignant tumors of the pancreas (clinical features, diagnosis, surgical treatment).
27. Malignant tumors of the gallbladder and the bile ducts.
28. Benign tumors of the liver (clinical features, diagnosis, diagnosis, surgical treatment).
29. Malignant tumors of the liver (clinical features, diagnosis, diagnosis, surgical treatment).
30. Ulcerative colitis. Crohn's disease (signs and symptoms, diagnosis, differential diagnosis, indications for surgical treatment).
31. Hemorrhoids, anal fissure, rectal prolaps (clinical features, diagnosis, surgical and non-surgical treatment).
32. Malignant tumors of the rectum (clinical features, diagnosis, surgical treatment).
33. Inguinal hernia, femoral hernia, umbilical hernia, linea alba hernia (hernia complications, symptoms, diagnosis and treatment).
34. Diaphragmatic hernia, hiatal hernia, gastroesophageal reflux disease (clinical features, diagnosis, surgical treatment).
35. Peptic ulcer disease of gastroduodenum. Indications for surgical treatment. Postoperative complications.
36. Anorectal fistula, perianal abscess. (clinical manifestation, diagnostics, surgical treatment).
37. Principles of miniinvasive surgery. Indications and risks.
38. Surgical procedures for colorectal cancer. Complications of colostomy.
39. Chronic pancreatitis and its complications (clinical manifestation, diagnostics, treatment).
40. Acute abdomen, definition. classification. Basic differential diagnostics characteristics.
41. Mechanical intestinal obstruction - obturation, strangulation. (clinical manifestation, diagnostics, surgical and non-surgical treatment).
42. Ileus of large intestine. (clinical manifestation, diagnostics, surgical treatment).
43. Acute peritonitis (primary and secondary peritonitis, causes, symptomatology diagnostics and treatment).

44. Intraabdominal abscesses (subphrenic, intermesenteric, Douglas abscess). Causes, symptomatology, diagnostics and treatment.
45. Portal hypertension and its consequences (causes and diagnostics). Bleeding in portal hypertension (diagnostics, treatment).
46. Bleeding from upper part of GIT (causes, symptomatology, differential diagnosis, diagnostic procedures, treatment).
47. Pylorostenosis (congenital, acquired, homeostatic disorders, treatment).
48. Meckel's diverticulum, duodenal diverticulum, diverticular disease of the large intestine (symptomatology, diagnostics, treatment).
49. Bleeding from lower part of GIT (cause, symptomatology, differential diagnosis, diagnostic procedures, treatment).
50. Acute pancreatitis (types of acute pancreatitis, symptomatology, pathophysiological homeostatic changes, diagnostic procedures, differential diagnosis, treatment). Complications of acute pancreatitis and their treatment.
51. Cholecystolithiasis and choledocholithiasis (clinical manifestation, diagnostics, complications, surgical treatment).
52. Obstructive jaundice (causes, diagnosis, treatment). Differential diagnosis of jaundice.
53. Cholecystitis, cholangitis (causes, signs and symptoms, treatment).
54. Pelveoperitonitis (causes, signs and symptoms, diagnosis, treatment).
55. Acute appendicitis. Acute appendicitis complications, complications after appendectomy. Appendicitis subacuta. (clinical manifestation, diagnostics, treatment).
56. Differential diagnosis of acute appendicitis in childhood and adulthood. Appendicitis in elderly and gravidity.
57. Chest diseases mimicking acute abdomen symptomatology. Acute upper abdominal pain (causes, differential diagnosis).
58. Acute abdominal pain syndrome of right and left hypogastrium (causes, differential diagnosis).
59. Retroperitoneal bleeding (traumatic and non-traumatic causes, diagnosis, treatment).
60. Intestinal obstruction – differential diagnosis of different types of intestinal obstruction (signs and symptoms, clinical presentation, diagnosis).
61. Acute abdomen in elderly – causes, specialties, symptoms, diagnosis, treatment.
62. Haemoperitoneum (liver and spleen injury).
63. Metabolic syndrome. Bariatric surgery (type of operations, indications, complications).
64. Chronic ischemic limb syndrome (clinical features, diagnosis, surgical treatment).
65. Thrombophlebitis and phlebothrombosis, iliofemoral phlebothrombosis, phlegmasia alba dolens, phlegmasia coerulea dolens (clinical features, diagnosis, surgical treatment).
66. Primary and secondary varicose veins of the lower extremities, postphlebotic limb syndrome. Varicose veins complications (clinical features, diagnosis, surgical treatment).

67. Acute ischemic limb syndrome (traumatic and non-traumatic causes, clinical features, diagnosis, surgical and non-surgical treatment).
68. Occlusive disorders of aortic arch branches (extracranial part of cerebral circulation, steal syndrome), signs and symptoms,
69. Imaging Modalities in Thoracic Surgery, Bronchoscopic Procedures.
70. Video-Assisted Thoracic Surgery. Thoracic Incisions.
71. Diagnostic Surgical Procedures, Mediastinoscopy, Mediastinotomy. Pulmonary Resections.
72. Chest Tube Thoracostomy, Thoracentesis, Mediastinal Drainage.
73. Spontaneous Pneumothorax, Pleural Effusions.
74. Empyema, Lung abscess.
75. Mediastinitis, Esophageal Perforation.
76. Chest Wall Deformities - Pectus Excavatum, Pectus Carinatum.
77. Benign Tumors of the Lung. Secondary Tumors of the Lung.
78. Lung Cancer – Etiology, Epidemiology, Screening, Diagnosis and Staging.
79. Non-Small-Cell Lung Cancer, Carcinoid Tumors, Small-Cell Lung Cancer - Principles of Surgical Therapy.
80. Mediastinal Tumors.
81. Carcinoma of the Esophagus.
82. Tumors of the Pleura, Mesothelioma. Chest wall tumors.
83. Rib Fractures. Posttraumatic Pneumothorax and Hemothorax.
84. Surgical treatment of coronary artery disease
85. Surgical treatment of heart valve diseases
86. Surgical treatment of thoracic aortic diseases
87. Cardiopulmonary bypass and mechanical circulatory support, perioperative care in cardiac
88. Malignant melanoma (classification, treatment).
89. Skin flaps and transplants
90. Burns and burn shock (clinical picture, diagnosis, surgical treatment).

91. Deformities of the chest wall: pectus excavatum, pectus carinatum and others (clinical picture, diagnosis, surgical treatment)
92. Congenital lung developmental defects: cystic adenomatoid lung malformation, congenital lobar emphysema, lung sequestration (clinical picture, diagnosis, surgical treatment).
93. Congenital diaphragmatic hernia (clinical picture, diagnosis, surgical treatment)
94. Congenital defects of the abdominal wall: omphalocele, gastroschisis, diastasis of rectus abdominis muscles, prune belly syndrome (clinical picture, diagnosis, surgical treatment).
95. Esophageal atresia (clinical picture, diagnosis, surgical treatment).

96. Esophageal reflux disease (clinical picture, diagnosis, surgical treatment).
97. Hypertrophic pylorostenosis in children (clinical picture, diagnosis, surgical treatment).
98. Congenital anomalies of the bile ducts and pancreas (clinical picture, diagnosis, surgical treatment).
99. Duodenal atresia (clinical picture, diagnosis, surgical treatment).
100. Atresia of the small and large intestine (clinical picture, diagnosis, surgical treatment).
101. Malrotation and volvulus (clinical picture, diagnosis, surgical treatment).
102. Hirschprung's disease (clinical picture, diagnosis, surgical treatment).
103. Anorectal malformations (clinical picture, diagnosis, surgical treatment).
104. Sudden abdominal events in childhood (clinical picture, diagnosis, surgical treatment).
105. Necrotizing enterocolitis in newborns (clinical picture, diagnosis, surgical treatment).
106. Intussusception (clinical picture, diagnosis, surgical treatment).
107. Hernias in childhood: inguinal, umbilical, femoral, in the linea alba (complications of hernias, symptoms, diagnosis and treatment).
108. Birth injuries (clinical picture, diagnosis, surgical treatment).
109. Children's fractures (characteristics, clinical symptoms, diagnosis and treatment) – traumatology
110. Chest injuries in children: pneumothorax, hemothorax, lung contusion, subcutaneous and mediastinal emphysema (clinical picture, diagnosis, surgical treatment).
111. Abdominal injuries in children (clinical picture, diagnosis, surgical treatment).
112. Injury of parenchymatous organs of the abdomen in children - liver, spleen, kidneys (clinical picture, diagnosis, surgical treatment).
113. Foreign bodies in the gastrointestinal tract in children (clinical picture, diagnosis, surgical treatment).
114. Lymphangiomas and hemangiomas in childhood (clinical picture, diagnosis, surgical treatment).