

Approved by:.....

Dean

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THEMES FOR STATE EXAM IN SURGERY

I. Propedeutics

1. Aseptics and antisepsis. Antibiotics and chemotherapeutics in modern surgery.
2. Open trauma - wound. Wound types. Management of wounds.
3. Thermal wounds. Principles and management. Frostbite. Hypothermia.
4. Blood transfusion. ABO and Rh systems. Blood type tests. Blood transfusion procedure. Choosing appropriate blood type. Clinical manifestations of hemolytic blood transfusion reaction. Errors and complications of blood transfusion.
5. Surgical infection. Tetanus. Gas gangrene. Sepsis – classification, etiology and pathogenesis, clinics, diagnostics and treatment.

II Special surgery

1. Traumatic brain injury. Traumas of the spinal cord and peripheral nerves.
2. Tumors of the brain.
3. Inflammatory diseases of the brain.
4. Thyroid diseases. Thyrotoxic adenoma. Hyperthyroidism. Grave's disease.
5. Thyroid cancer. Endemic and sporadic goiter (struma).
6. Benign diseases of the breast. Inflammatory diseases of the breast.
7. Benign tumors of the breast. Malignant tumors of the breast.
8. Pleural diseases. Pleural empyema.
9. Purulent lung diseases. Lung abscess. Bronchiectasias. Syndrome of the middle lobe. Broncholithiasis.
10. Parasitic lung diseases. Lung echinococcosis. Benign lung tumors.
11. Lung cancer. Solitary pulmonary nodules (coin lesions). Metastatic lung tumors.
12. Blunt thoracic trauma. Spontaneous pneumothorax. Open chest trauma. Complications.
13. Video-assisted thoracic surgery (VATS). Lung transplantation.
14. Disease of the thymus. Thymomas. Primary mediastinal tumors and cysts.
15. Surgical treatment of the complications of myocardial infarction.
16. Valvular heart diseases. Heart transplantation.
17. Aortic aneurysms. Acute aortic dissection.
18. Congenital heart diseases.
19. Acute arterial occlusion. Traumatic and iatrogenic injuries of the blood vessels.
20. Diseases of the aortic arch and its branches.

21. Chronic arterial insufficiency of the limbs. Leriche syndrome. Femoro-popliteal occlusions. Femoro-popliteal bypasses.
22. Abdominal aortic aneurysms.
23. Varicose veins. Diseases of the deep venous system. Postthrombotic syndrome.
24. Solid organ transplantation.
25. Disturbances of the esophageal motility. Achalasia. Sclerodermia. Diverticulitis and other conditions of the esophagus.
26. Esophageal tumors.
27. Burnings and corrosive strictures of the esophagus. Medistinitis.
28. Hiatal hernias.
29. Congenital diseases of the abdominal wall.
30. Hernias of the abdominal wall. Inguinal hernias. Femoral hernia. Complications
31. Umbilical hernia in adults. Hernias of linea alba in adults. Postoperative hernias.
32. Peritonitis. Abscesses in the peritoneal cavity.
33. Mesenteric embolus and thrombosis.
34. Inflammatory diseases of the retroperitoneum. Hemorrhages in the retroperitoneal space. Primary tumors of the retroperitoneal space.
35. Acute abdomen.
36. Abdominal trauma.
37. Ulcer disease. Stress ulcer. Surgical treatment of ulcer disease. Surgical complications of ulcer disease.
38. Complications after stomach surgeries. Post-resection syndromes.
39. Gastrinomas. (Zollinger-Ellison syndrome).
40. Benign stomach tumors.
41. Malignant stomach tumors. Gastric cancer. Gastric lymphomas. Gastric sarcoma.
42. Diseases of the small intestine.
43. Acute ileus.
44. Acute appendicitis.
45. Bleeding from the gastrointestinal tract.
46. Ulcerative colitis. Crohn's disease. Megacolon.
47. Diverticulosis of the bowel. Benign tumors of the colon.
48. Colon cancer.
49. Hemorrhoids. Rectohaemorrhagia. Anal fissure.
50. Prolapse of anus and rectum. Anorectal fistulas. Paraproctitis.
51. Pilonidal disease. Dermoid cysts and teratomas in the sacrococcygeal region.
52. Rectal cancer. Anal cancer.
53. Liver traumas.
54. Liver cysts. Liver echinococcosis.
55. Liver tumors. Benign neoplasm. Malignant tumors of liver.
56. Portal hypertension. Liver transplantation.
57. Congenital malformations of the biliary system.
58. Cholelithiasis. Gallstones.
59. Inflammatory diseases of the biliary tract.
60. Strictures of the bile ducts. Biliodigestive fistulae and gallstone ileus.

61. Gallbladder cancer. Cancer of the extrahepatic bile ducts.
62. Mechanical icterus.
63. Laparoscopic surgery. Laparoscopic treatment of the gastrointestinal diseases. Robotic surgery.
64. Acute pancreatitis.
65. Cysts and pseudocysts of the pancreas. Pancreatic abscess.
66. Chronic pancreatitis.
67. Pancreatic cancer.
68. Cancer of papilla Vateri. Endocrine pancreatic tumors.
69. Hypersplenism. Splenomegalia.
70. Splenic infarction. Traumas of the spleen. Splenic abscess. Splenic echinococcosis.
71. Indications and contraindications for splenectomy. Complications after splenectomy.
72. Surgical pathology of the anterior abdominal wall and the inguino-scrotal region in children.
73. Lung and mediastinal diseases in children.
74. Congenital and acquired diseases of the esophagus. Congenital diseases of the gastrointestinal tract.
75. Acute scrotum in children.
76. Solid malignant tumors in children.

III. Orthopaedics and Traumatology

1. Surgical methods of treatment. Complications in fractures.
2. Purulent arthritis. Osteomyelitis.
3. Degenerative joint diseases. Endoprosthesis.
4. Bone cysts and tumors.

IV. Urology

1. Congenital malformations of the genitourinary system.
2. Kidney-stone disease and its complications.
3. Benign and malignant diseases of the prostate gland.
4. Renal tumors, tumors of the urinary tract and the urinary bladder.

V. Anaesthesiology

1. Acute respiratory failure: causes, management, artificial respiration (mechanical ventilation).
2. Acute circulatory failure. Clinical death.
3. Postoperative monitoring of the main vitals and analgesics.
4. Acid-base and fluid and electrolyte balance. Enteral and parenteral nutrition.