

6th year surgery exam topic list

GENERAL SURGERY

1. Classification of wounds, principles of wound treatment
2. Soft tissue infections, wound infections, NPWT, antibiotic prophylaxis
3. Indications and contraindications of surgery, surgical incisions
4. Preoperative care, ERAS protocol, prehabilitation, perioperative nutrition
5. Postoperative care and complications
6. Surgical oncology (basic concepts, importance of TNM staging, neoadjuvant and adjuvant oncological treatment, concept of onco-team, importance)
7. Significance of minimally invasive surgery, common surgical techniques
8. Transplantation basic concepts (basic concepts, brain death, indications, immunosuppression)
9. Forms of surgical deviations of the intestinal system: stomas (main types, indications)
10. Types of bleeding, hemostasis, transfusion
11. Thromboembolism, thromboprophylaxis
12. Surgical diagnosis (physical signs, laboratory, imaging devices) Interventions (endoscopy, US/CT-guided interventions)
13. Anatomy of abdominal visceral vessels

SPECIAL SURGERY

1. Disease of the adrenal glands, surgical consequences
2. Benign diseases of the thyroid gland, and treatment
3. Malignant diseases of the thyroid gland and treatment
4. Surgery of the parathyroid gland
5. Benign diseases of the esophagus, diagnostics and treatment (achalasia, diverticulosis, hiatal hernia, GERD).
6. Malignant diseases of the oesophagus, diagnosis, treatment
7. Benign diseases of the stomach. Examination of the stomach and the duodenum, surgical aspects

08. Malignant diseases of the stomach (symptoms, diagnosis, treatment)
09. Gallstones of the gallbladder and the biliary tract: symptomatics, diagnostics, treatments
10. Gallstones complications and treatment
11. Malignant diseases of the gallbladder and the biliary tract: symptomatics, diagnostics and treatments
12. Benign tumours of the liver (symptoms, differential diagnosis, treatment)
13. Primary and metastatic tumours of the liver tumours (symptoms, diagnosis, treatment)
14. Acute and chronic pancreatitis (symptoms, diagnosis, treatment, complications)
15. Malignant diseases of the pancreas (curative and palliative, surgical and interventional options)
16. Colorectal polyps, polyposis syndromes (symptoms, diagnosis, treatment)
17. Anorectal tumors (symptoms, diagnosis, treatment)
18. Malignant diseases of the large intestine (symptoms, diagnosis, treatment)
19. Colon diverticulosis, diverticulitis (symptoms, diagnosis, conservative treatment, surgical indications)
20. Surgical aspects of Crohn disease
21. Surgical aspects of ulcerative colitis
22. Anorectal benign diseases (haemorrhoids, perianal fistula, anal fissure, anorectal abscesses)
23. Signs and causes of peritonitis. Perforation of luminal organs: symptomatics, diagnostics, treatments
24. Ileus: types, symptomatics, diagnostics, treatments
25. Acute appendicitis: symptomatics, diagnostics, treatments
26. Acute and chronic intestinal ischemia
27. Symptomatics, causes, and treatments of upper-gastrointestinal bleeding
28. Symptomatics, causes, and treatments of lower-gastrointestinal bleeding
29. Inguinal and femoral hernias: symptomatics, diagnostics, treatments
30. Hernias: definitions, types, symptoms, complications and types of treatment
31. Surgical aspects of the spleen. Surgical methods for the treatment of retroperitoneal diseases
32. Breast cancer: diagnostics and treatment
33. The benign diseases of the breast. Types of breast-reconstruction surgeries
34. Bariatric surgery

Practical Exam:

Physical examination of the whole body, with particular attention to the abdominal status.

Digital rectal examination and examination of the peripheral vessels with a hand-held Doppler device.

Blood sampling, iv., im., sc. injection

Recognition of general surgical instruments

Wound treatment, dressing changes, accurate description of the condition of wounds

Recognition of different suture techniques, suture removal

Handling and removal of drains

Documenting patient sheets, reviewing medical records and other patient documentation

Surgical hand preparation (Washing, Scrubbing)

Sterility rules, isolation of the surgical area