

General Surgery 5th study year summer semester 2019/2020.

Exam: consists of three questions from Surgery I, Pediatric Surgery and Surgery II

List of questions for the exam

Surgery I

1. Inguinal and femoral hernia
2. Umbilical hernia and hernia in linea alba, incisional hernia
3. Incarcerated hernia
4. Diaphragmatic and internal hernia
5. Malignant tumors of the liver
6. Chronic venous insufficiency of lower extremities
7. Punction, evacuation, drainage
8. Acute abdomen - definition, classification, role of the first contact physician
9. Bleeding - types and methods of hemostasis
10. Tracheostomy and coniotomy
11. Thrombophlebitis and phlebothrombosis –differential diagnosis
12. Subacute appendicitis
13. Traumatic wounds – types and occurrence of mechanism
14. Pneumothorax and hemothorax, types, clinical presentation, diagnosis, treatment
15. Diabetic foot – pathophysiology, clinical aspects, principles of treatment
16. Wound healing and its disorders
17. Tetanus - prevention and treatment
18. Acute and subacute cholecystitis
19. Acute appendicitis in elderly, pregnancy
20. Cholecystolithiasis
21. Biliary tract disorders
22. Phlegmon and abscess - definition, management and treatment
23. Evaluation and management of acute abdomen - history, clinical and paraclinical examinations
24. Folliculitis, furunculus, carbunculus

25. Cholecystitis, cholangitis
26. Portal hypertension, etiology and complications
27. Gallbladder carcinoma
28. Erysipelas and erysipeloid
29. Jaundice
30. Cysts and abscesses of the liver
31. Acute pancreatitis
32. Bite wounds
33. Intraabdominal abscesses
34. Shooting injuries - characteristics and principles of surgical treatment
35. Chronic pancreatitis
36. Shock in surgery
37. Secondary wound healing, principles of treatment
38. Tumors of the pancreas and surgical treatment
39. Crush syndrome
40. Sepsis in surgery
41. Blast syndrome
42. Pancreatic cysts and pseudocysts
43. Purulent disease of the hand and fingers
44. Caustic and corrosive injury of the esophagus
45. Post-traumatic hemoperitoneum (spleen and liver injury)
46. Peripheral arterial obliterating diseases
47. Complications of gastroduodenal peptic ulcer disease
48. Postoperative complications
49. Pressure ulcers - pathogenesis, prevention and care
50. Stomach cancer
51. Duodenal and pancreatic injuries
52. Embolism and thrombosis - definition and division
53. Peritonitis - classification, causes, diagnosis, treatment
54. Acute arterial occlusions
55. Crohn disease
56. Vascular injuries - diagnostics, first aid and definitive treatment
57. Damage control surgery
58. Intra-abdominal hypertension, acute abdominal compartment syndrome

59. Ileus – classification, diagnosis, treatment
60. Gastroesophageal reflux disease (GERD), pathophysiology and surgical treatment
61. Diverticulosis and diverticulitis of the colon
62. Hemorrhoids, anal fissure
63. Achalasia
64. Ulcerous colitis
65. Carcinoma of the large bowel and rectum
66. Antibiotic prophylaxis and therapy in surgery
67. Fistula and abscess of the anus and rectum, sinus pilonidalis
68. Thromboembolic disease and its prevention
69. Traumatic acute abdomen - classification and diagnosis
70. Bleeding from the gastrointestinal tract
71. Diverticula and strictures of the esophagus
72. Basic classification of tumors and etiopathogenesis of tumors
73. Esophageal tumors, surgical treatment

Compulsory Literature

1. Sabiston Textbook of Surgery 20th Edition, Elsevier 2016
2. Cameron, J.: Current Surgical Therapy. 8th ed. London: Churchill Livingstone, 2004,
3. Kirk, R.M.: General Surgical Operations. 5th ed. London: Churchill Livingstone, 2006,

Recommended Literature

1. Way, L.W. (ed.): Současná chirurgická diagnostika a léčba. Praha: Grada, 2000, 1660 s.
2. Pokorný, V. (ed.): Traumatologie. Praha: Triton, 2002, 307 s.
3. Olejník, J. (ed.): Perioperační manuál chirurga. Bratislava: Ebner, 2002, 388 s.
4. Zeman, M. (ed.): Chirurgická propedeutika. 2. vyd. Praha: Grada, 2003. 524 s.
5. Prochotský, A.: Karcinóm hrubého čreva a konečníka. Bratislava: Litera Medica, 2006,
6. Černý, J. (ed.): Chirurgia tráviacej rúry. 4 zv. Martin: Osveta, 1988
7. Černý, J. (ed.): Špeciálna chirurgia 2. Chirurgia brušných orgánov a retroperitonea. Martin: Osveta, 1992
8. Černý, J. (ed.): Špeciálna chirurgia. 4 zv. Martin: Osveta, 1988-1995.
9. Štencl, J., Holéczy, P.: Základné laparoskopické operácie v chirurgii. Martin: Osveta, 2001. 131 s.
10. Ferko, A., Vobořil, Z. (ed.): Chirurgie v kostce. Praha: Grada, 2002. 596 s.
11. Olejník, J. (ed.): Akútna pankreatitída. Bratislava: Ebner, 2002, 68 s.

Pediatric Surgery

1. Perioperative care in childhood
2. Congenital deformities of the chest wall in children
3. Hernia's in childhood
4. Urine incontinence, disorders of urination, enuresis nocturna in children
5. Foreign bodies in the respiratory and digestive tract
6. Intussusception of the intestine
7. Congenital abdominal anterior wall defects
8. Developmental dysplasia of the lower extremities and congenital foot malformations
9. Esophageal atresia
10. Congenital pylorostenosis – symptoms, diagnosis, treatment
11. Developmental anomalies of the ureter and urinary bladder
12. Congenital anomalies of male genitalia
13. Intestinal stenoses and atresias
14. Duodenal stenoses and atresias
15. Hydrocele and varicocele in children
16. Congenital hydrocephalus
17. Tethered cord
18. Necrotizing enterocolitis in newborns (ethology, classification, treatment, prognosis)
19. Cleft lip and cleft palate
20. Anorectal malformations
21. Hirschsprung's disease
22. Congenital malformations of the large bowel and rectum, surgical treatment
23. Intestinal malrotation
24. Meconium ileus, meconium plug syndrome, meconial peritonitis
25. Fractures of the distal end of the humerus in children (supracondylar)
26. Congenital diaphragmatic hernia
27. Undescended testis
28. Atresio viarum biliarum

Literature

1. Coran G. Arnold at all.: Pediatric Surgery, Vol. 1, 2, Elsevier 2012,
2. Zacharias Zachariou: Pediatric Surgery Digest, Springer 2009
3. Marian Vidišćák a kol.: Novorodenecká chirurgia I, M-Servis 2008

Surgery II

1. Neurogenic urinary disorders
2. Concussion, axonal injury, brain commotion and contusion
3. Hematuria and pyuria
4. Types of post-traumatic intracranial hemorrhage
5. Cardiopulmonary resuscitation in acute heart failure
6. Renal colic and its differential diagnosis of abdominal pain
7. Nephrostomy, epicycstostomy
8. Skull fractures
9. Urine retention
10. Fractures of the heel and ankle
11. Backbone injuries (ligaments and fractures)
12. Vascular accesses
13. Knee injuries (meniscuses, ligaments), knee dislocation
14. Intracerebral hemorrhage
15. Burns - classification, first aid, treatment
16. Spinal cord injuries (urgent help, transport, diagnosis, treatment)
17. Definitive wound treatment
18. Cardiac tamponade
19. Urosepsis
20. Fractures in the ankle area (intra and extraarticular, whistle, pillar)
21. Fractures of ribs and sternum
22. Pleural effusion (exudate)
23. Amputations – types and indications
24. Principles of enteral and parenteral nutrition of a surgical patient
25. Thoracic empyema
26. Tumors of kidneys, urinary bladder and testicles
27. Tumors of the lungs
28. Peripheral nerve injuries - diagnosis and treatment
29. Distortion and luxation
30. Open fractures - classification, first aid and treatment principles
31. Fractures in general - mechanism of onset, classification, dislocations
32. Conservative treatment of fractures

33. Surgical treatment of fractures, types of osteosynthesis
34. Polytrauma - definition, principles of first aid and treatment
35. Healing of fractures using conservative and surgical treatment
36. Injury of the kidneys, ureters, urine bladder and urethra
37. Gangrene of the limbs, causes, principles of amputations
38. Hydronephrosis
39. Peripheral and central vein accesses
40. Pelvic fractures (stable, unstable) and their complications
41. Fractures in the lower end of forearm and wrist
42. Fractures of the proximal and medial part of humerus
43. Fractures in the elbow region (olecranon, proximal end of radius and ulna, Monteggia fracture)
44. Benign prostatic hyperplasia, prostatic cancer

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prof. MUDr. Marian Vidiščák, PhD., FEBPS
garant of surgery

MUDr. Ivan Brychta, PhD.
Head of Department of Surgery