

Suggested
topics for exam in general surgery
summer academic semester 2013/2014

1. Physiological basics in surgery

Acid-alkaloid balance

Diagnosis of disorders of acid-alkaloid balance

(metabolic acidosis, respiratory acidosis, metabolic alkalosis, respiratory alkalosis) –
clinical symptoms and treatment

2. Physiological basics in surgery

Disorders of hydro-electrolyte balance in surgical diseases

Diagnosis of hydro-electrolyte deficits in surgical patients (clinical symptoms and
treatment)

3. Physiological basics in surgery

Nutritional principles in surgical patients

Diagnosis of malnutrition

Enteral feeding (ways of enteral feeding)

Parenteral feeding (ways of parenteral feeding)

4. Shock

Definitions, causes, types, threatenings, evaluation of shock severity (shock index), treatment

5. Oligovolemic shock

Causes, symptoms, treatment

6. Septic shock

Most common causes, symptoms, diagnostic, treatment

7. Soft tissue traumas

Soft tissue concussion

Clinical view of soft tissue hematoma, ways of wound treatment, types of wounds,

Methods of treatment of various types of wounds

8. Tetanus

Diagnosis, methods of treatment

Gas gangrene

Clinical Picture, treatment

9. Furunculus

Causes of occurrence, symptoms, treatment

10. Abscess

Causes of occurrence, symptoms, treatment

11. Phlegmon

Symptoms, treatment

12. Panaritium

Types, symptoms, treatment

13. Whitlow

Causes of occurrence, symptoms, treatment

14. Mechanisms and ways of wound healing

Principles of surgical attitude in various types of wounds

Tetanus and gas gangrene – clinical Picture, treatment

15. Congenital anomalies of the thorax

Funnel chest (clinical picture, complications, treatment)

Pigeon chest (clinical presentation, treatment)

16. Lung cancer

Etiology, histological types, diagnostic methods, treatment

17. Lung tuberculosis

Clinical Picture, diagnostic methods, indications for surgical treatment

18. Pleural empyema

Etiology, clinical picture, diagnosis, treatment

19. Spontaneous pneumothorax

Etiology, clinical view, diagnosis, treatment

20. Acute mediastinitis

Causes, clinical picture, diagnosis, treatment

21. Mediastinal tumors

Most common tumors of the anterior, medial and posterior mediastinum

Clinical presentation in particular tumor types

Diagnostic methods, treatment

22. Traumas of the thorax

Fracture of one rib, fracture of several ribs

Clinical presentation, diagnosis, complications, treatment

Fracture of the sternum; causes, clinical presentation, diagnosis, treatment

23. Lung concussion

Causes, clinical presentation, diagnosis, complications, treatment

24. Traumatic pneumothorax

Closed pneumothorax - causes, clinical presentation, treatment

Open pneumothorax - causes, clinical presentation, treatment

Valvular pneumothorax - causes, clinical presentation, treatment

25. Penetrating thoracic wounds with the pleural damage

Clinical presentation, diagnosis, treatment

26. bronchial or tracheal tear

Causes, clinical presentation, diagnosis, treatment

27. Posttraumatic diaphragmal herniations

Causes, clinical presentation, diagnosis, treatment

28. Methods of drainage In thoracic surgery

29. Diagnostic procedures In thoracic surgery

30. Cardiac tamponade

Clinical presentation, diagnosis, treatment

31. Stenosis of the bicuspid valve
Causes, clinical presentation, diagnosis, treatment
32. The bicuspid valve insufficiency
Causes, clinical presentation, diagnosis, treatment
33. Stenosis of the aortal valve
Causes, clinical presentation, diagnosis, treatment
34. Aortal valve insufficiency
Causes, clinical presentation, diagnosis, treatment
35. Ischemic disease of the heart
Causes, clinical presentation, diagnosis, treatment
36. Congenital heart diseases
Aortal stenosis, pulmonic stenosis, mitral stenosis
Clinical presentation, management
37. Congenital hart disease with left to right shunt
Patent Botall's ductus
Ventricular septal defect
Atrial septal defect
Differences in clinical presentation, management
38. Congenital hart disease with right to left shunt
Fallot's tetralogy
Clinical presentation, diagnosis, treatment
39. Acute limb ischemia
Causes, clinical presentation, diagnosis, treatment

Causes, clinical presentation, diagnosis, treatment

50. Superior vena cava obstruction

Causes, clinical presentation, diagnosis, treatment

51. Inferior vena cava obstruction

Causes, clinical presentation, diagnosis, treatment

52. Portal hypertension

causes, symptoms, complications, hepatic cirrhosis severity classification, management

53. Esophageal varices

Causes, clinical presentation, diagnosis, complications, treatment

54. Esophageal perforation

Causes, clinical presentation, diagnosis, treatment

55. Esophageal Burns with corrosive substances

Clinical presentation, diagnosis, complications, management

56. Benign esophageal neoplasms

Clinical presentation, diagnosis, choice of method of treatment

57. Esophageal diverticula

Types of diverticula, clinical presentation, diagnosis, treatment

58. Pharyngo-esophageal diverticulum

Etiology, symptoms, diagnosis, treatment

59. Supradiaphragmatic esophageal diverticulum

Clinical presentation, diagnosis, treatment

60. Achalasia cardia

Etiology, clinical presentation, diagnosis, choice of method of treatment

61. Esophageal hiatal herniations

Types, etiology, differences in clinical presentation, diagnosis, treatment

62. Reflux disease

Causes, clinical presentation, diagnosis, complications, treatment

63. Esophageal cancer

Etiology, clinical presentation, diagnosis, treatment

64. Diagnostic examinations In esophageal cancer

Staging, choice of method of treatment

65. Advanced, non resectable esophageal cancer

Kinds of complications, symptoms, diagnosis, procedures

66. Barrett's Esophagus

Etiology, clinical presentation, diagnosis, treatment

67. Ulcerative disease

Pathogenesis, clinical presentation, diagnosis, complications, treatment

68. bleeding gastric or duodenal ulcer

Clinical presentation, diagnosis, method of treatment

69. Ways of gastric resection

Indications for gastrectomy

70. Perforated peptic ulcer

Clinical presentation, diagnosis, procedures

71. Pyloric or duodenal stenosis

Clinical presentation, diagnosis, procedures

72. Gastric cancer

Classification, clinical presentation, diagnosis, therapy of choice

73. Gastric cancer-staging evaluation

TNM classification, selection of the procedure

74. Upper gastrointestinal bleeding

Causes, symptoms, diagnosis, treatment

75. Gall bladder concrements

Pathogenesis, clinical presentation, diagnosis, complications, procedures

76. Acute cholecystitis

Clinical presentation, diagnosis, methods of treatment

77. Gall bladder hydrops

Clinical presentation, diagnosis, treatment

78. Gall bladder empyema

Clinical presentation, diagnosis, treatment

79. Perforation of the gall bladder

Clinical presentation, diagnosis, treatment

80. Gall bladder cancer

Etiopathogenesis, clinical presentation, diagnosis, treatment methods

81. Concrements of the external gall ducts

Causes, , clinical presentation, diagnosis, treatment methods

82. Mechanical icterus

Clinical presentation, differentia diagnosis, methods of treatment

83. Gall tracts cancer

Clinical presentation, diagnosis, treatment methods

84. Acute pancreatitis

Causes, clinical presentation, diagnosis, treatment methods

85. Chronic pancreatitis

Causes, clinical presentation, diagnosis, inflammation severity scale, complications, treatment methods

86. Pancreatic pseudocyst

causes, clinical presentation, diagnosis, complications, treatment methods

87. Pancreatic cancer

Clinical presentation, diagnosis, treatment methods

88. Vater's papilla cancer

Clinical presentation diagnosis, treatment methods

89. Digestive tract obstruction

Causes, kinds of obstructions, diagnosis, procedures

90. Leśniowski-Crohn's disease

Etiopathogenesis, clinical presentation, diagnosis, indications for surgery

91. Small bowel obstruction

Pathophysiology, causes, clinical presentation, complications

92. Thromboembolism of the superior mesenteric artery

Causes, clinical presentation, diagnosis, treatment

93. The large bowel polyps

Clinical presentation, diagnosis, threatenings, methods of treatment

94. The large bowel diverticulosis

Clinical presentation, diagnosis, methods of treatment

95. Complications of the large bowel diverticulosis

Clinical presentation of diverticulitis and perforation of the diverticulum, diagnosis, methods of treatment

96. Large bowel ulcerative colitis

Etiopathogenesis, clinical presentation, diagnosis, indications to surgery

97. The lower gastrointestinal bleeding

Causes, clinical presentation, diagnosis, ways of treatment

98. Acute large bowel obstruction

The most common causes, clinical presentation, diagnosis, treatment methods

99. Large bowel cancer

Etiology, clinical presentation, staging classification, diagnosis

100. The Wright hemicolon cancer

Clinical presentation, diagnosis, treatment methods

101. Rectal cancer

Clinical presentation, diagnosis, clinical evaluation of staging, treatment

102. Left hemicolon cancer

Clinical presentation, diagnosis, treatment methods

103. Acute appendicitis

Clinical presentation, differential diagnosis, treatment

104. Complications of acute appendicitis

Clinical presentation, diagnosis, treatment methods

105. Hemorrhoids

Clinical presentation, diagnosis, choice of treatment method

106. Anal fissure

Clinical presentation, diagnosis, methods of treatment

107. Perianal fistula

Clinical presentation, diagnosis, treatment methods

108. Perianal abscess

Clinical presentation, diagnosis, treatment methods

109. Anal cancer

Clinical presentation, diagnosis, treatment methods

110. Peritonitis

The most common causes, symptoms (local and general), treatment

111. Blunt abdominal traumas

Clinical presentation, diagnosis, complications, procedures

112. Penetrating wounds of the abdominal cavity

Causes, clinical presentation, diagnosis, complications, procedures

113. Spleen rupture

Causes, clinical presentation, diagnosis, procedures

114. Abdominal hernias

Causes of occurrence, types of hernias, main symptoms, threatenings, treatment

115. Topography of inguinal canal

Types of inguinal hernias (topographic differences), treatment

116. Femoral hernia

Topography of femoral canal, diagnosis, treatment

117. Internal hernias

Types, clinical presentation, diagnosis, treatment

118. Congenital diaphragmatic hernias

Locations, clinical presentation, diagnosis treatment

119. Breast abscess

Causes, clinical presentation, diagnosis, treatment

120. Breast cancer

Risk factors, types, clinical presentation, staging, diagnosis,
Methods of treatment

121. Simple struma

Predisposing factors, clinical presentation, diagnosis, treatment

122. Graves- Basedow's disease

Causes and characteristic of the disease, clinical presentation, diagnosis, methods of treatment

123. Cancer of the thyroid

The most common types, clinical presentation, diagnosis, treatment

124. Inflammation of the thyroid

Etiology, clinical presentation, diagnosis, treatment

125. Hyperfunction of the parathyroid gland

Causes, clinical presentation, diagnosis, treatment

126. Pheochromocytoma

Causes, symptoms, diagnosis, treatment

127. Cushing's syndrome

Causes, symptoms, diagnosis, treatment

128. Zollinger-Elison's syndrome

Causes, symptoms, diagnosis, treatment

129. Indications and contraindications to transfusions of blood and its concentrates

130. Burns

Procedures in place of an accident, types of burns, evaluation of its extent and depth, threatnings, treatment

131. Frost-bites

First aid, evaluation of the an extent and depth of lesions, treatment

132. Nephrolithiasis

Causes of occurrence, types, differential diagnosis, treatment

133. Kidney traumas

Causes, diagnostics methods, treatment

134. Intraoperative damage of urinary tracts

Causes, procedures

135. The most common iatrogenic damages of the urinary tracts

Diagnosis, procedures

136. Traumas of the urethra

Causes of occurrence, symptoms, diagnosis, procedures

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