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

1. **Physiological basics in surgery**
   - Acid-alkaloiod 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 heart disease with left to right shunt
   Patent Botall's ductus
   Ventricular septal defect
   Atrial septal defect
   Differences in clinical presentation, management

38. Congenital heart disease with right to left shunt
   Fallot's tetralogy
   Clinical presentation, diagnosis, treatment

39. Acute limb ischemia
   Causes, clinical presentation, diagnosis, treatment
50. Superior vena cava obstruction
Causes, clinical presentation, diagnosis, treatment

51. Interior 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 cardiae
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, differential 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 exposure 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 divertiulum, 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. Hemmoroids
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 abscesses
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 parotid gland
Causes, clinical presentation, diagnosis, treatment

126. Phaeochromocytoma
Causes, symptoms, diagnosis, treatment

127. Cushing's syndrome
Causes, symptoms, diagnosis, treatment

128. Zollinger-Ellison'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, threatenings, 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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