

MEDICAL UNIVERSITY – SOFIA
MEDICAL FACULTY DEPARTMENT OF INTERNAL
MEDICINE

SYNOPSIS

Synopsis of state examination on internal medicine for medical students

I. PULMONARY DISEASES

1. Acute bronchitis, tracheobronchitis, broncheolitis
2. Chronic bronchitis, pulmonary emphysema chronic obstructive pulmonary disease
3. Respiratory failure – pathophysiology, and clinical features
4. Bacterial community –acquired pneumonia
5. Nonbacterial community – acquired pneumonia (atypical, viral)
6. Hospital – acquired pneumonia and pneumonia in immunocompromised patients
7. Treatment of pneumonias
8. Purulent diseases - bronchiectasis, pulmonary abscess
9. Pleural effusions
10. Pulmonary Tuberculosis
11. Pulmonary embolism
12. Diffuse parenchymal pulmonary diseases

II. CARDIOVASCULAR DISEASES

13. Diseases of the mitral valve: mitral stenosis
14. Diseases of the mitral valve: mitral regurgitation
15. Diseases of the aortic valve: aortic stenosis
16. Diseases of the aortic valve: aortic insufficiency
17. Endocarditis
18. Pericardial diseases - classification. Pericarditis . Cardiac tamponade.
19. Myocardial diseases: myocarditis
20. Myocardial diseases: cardiomyopathies
21. Acute heart failure: cardiac asthma, pulmonary edema, cardiogenic shock – etiology, haemodynamics, clinical features
22. Treatment of acute heart failure
23. Chronic congestive heart failure – etiology, pathogenesis, clinical features.
24. Parameters of cardiac function in CHF. Treatment of Chronic heart failure
25. Ischemic heart disease. Stable Angina pectoris
26. Acute coronary syndromes: Acute myocardial infarction with -ST segment elevation
27. Acute coronary artery syndromes without ST segment – elevation: unstable angina pectoris, myocardial infarction without -ST segment elevation
28. Conductive disturbances. Treatment of conductive disturbances.
29. Rhythm abnormalities: supraventricular arrhythmias – classification, hemodynamics, clinical features

30. Treatment of supraventricular arrhythmias
31. Rhythm abnormalities: ventricular arrhythmias – classification, hemodynamics, clinical features
32. Treatment of ventricular arrhythmias
33. Antiarrhythmic drugs – classification, doses
34. Arterial Hypertension – etiology, classification, clinical features, complications
35. Arterial hypertension - treatment
36. Acute Rheumatic fever. Rheumocarditis
37. Chronic cor pulmonale
38. Aortic diseases: aortic dissection, aortic aneurysm, Takayasu disease

III. RHEUMATIC DISEASES

39. Rheumatoid arthritis
40. Ankylosing spondylitis (Bechterew's disease)
41. Reactive arthritis - Rheumatic fever, Reiter's syndrome, Lyme disease
42. Rheumatic fever – diagnosis and treatment
43. Psoriatic arthritis
44. Systemic lupus erythematosus
45. Progressive systemic sclerosis
46. Polymyositis / Dermatomyositis
47. Vasculitis – classification and clinical features
48. Henoch-Schönlein purpura
49. Polyarteritis nodosa (PAN)
50. ANCA associated vasculitis
51. Large vessel vasculitis – Horton disease, Takayasu's arteriitis, Buerger disease
52. Antiphospholipid syndrome
53. Gout
54. Osteoarthritis
55. Osteoporosis
56. Soft tissue rheumatism – fibromyalgia and others
57. Treatment of rheumatic diseases with biological and biosimilar drugs
58. Humoral immunity changes in rheumatic diseases

IV. HEMATOLOGIC DISEASES

59. Iron deficiency anemia
60. Macrocytic and megaloblastic anemias
61. Hemolytic anemias. Hemolysis
62. Aplastic anemia. Agranulocytosis
63. Hodgkin's disease
64. Non-Hodgkin's lymphomas
65. Chronic lymphocytic leukemia
66. Myeloma multiplex
67. Chronic myeloid leukemia
68. Polycythemia vera
69. Acute myeloid leukemia
70. Acute lymphocytic leukemia (ALL) in adults.
71. Hemorrhagic diathesis – normal hemostasis. Thrombocytopenia –

- classification. Immune thrombocytopenia
72. Hemorrhagic diathesis – normal hemostasis. Hemophilia

V. ENDOCRINE AND METABOLIC DISEASES

- 73. Diabetes mellitus - etiopathogenesis, clinical features
- 74. Diabetes mellitus - treatment
- 75. Diabetes mellitus - complications
- 76. Obesity and Metabolic syndrome
- 77. Dyslipidemia
- 78. Hypothyroidism
- 79. Thyrotoxicosis. Hyperthyroidism.
- 80. Nodular goiter. Endemic and sporadic goiter
- 81. Hyperprolactinemia. Prolactinoma
- 82. Hypercalcemia
- 83. Hypocalcemia
- 84. Acromegaly and diabetes insipidus
- 85. Hypercorticism
- 86. Hypocorticism
- 87. Hypogonadism - male and female. Clinical picture
- 88. Autoimmune disorders of the thyroid gland
- 89. Polycystic ovarian syndrome

VI. GASTROINTESTINAL DISEASES

- 90. Gastro-esophageal reflux disease (GERD)
- 91. Helicobacter pylori infection
- 92. Peptic ulcer
- 93. Malabsorption
- 94. Ulcerative colitis and Crohn's disease
- 95. Colon tumors
- 96. Chronic viral hepatitis
- 97. Fatty liver. Alcoholic and nonalcoholic steatohepatitis
- 98. Primary biliary cholangitis (Primary biliary cirrhosis ; PBC). Primary sclerosing cholangitis
- 99. Autoimmune hepatitis
- 100. Liver cirrhosis – etiology, pathogenesis, clinical features
- 101. Liver cirrhosis – complications: esophageal varices, ascites, spontaneous bacterial peritonitis (SBP), hepato-renal syndrome, portal encephalopathy. (PE)
- 102. Ascites – diagnosis, differential diagnosis, treatment
- 103. Cholelithiasis- etiology, pathogenesis, clinical features.
- 104. Cholelithiasis – complications: cholecystitis, cholangitis
- 105. Acute and chronic pancreatitis
- 106. Cholestasis /jaundice syndrome/

VII. RENAL DISEASES

107. Acute poststreptococcal glomerulonephritis (GN)
108. Idiopathic nephrotic syndrome
109. Membranous glomerulonephritis
110. IgA glomerulonephritis (Berger's disease)
111. Membranoproliferative glomerulonephritis (MPGN)
112. Lupus nephritis
113. Kidney and diabetes
114. Renal amyloidosis
115. Acute urinary tract infections
116. Chronic pyelonephritis
117. Renal tuberculosis
118. Nephrolithiasis
119. Polycystic Renal disease
120. Acute kidney injury. Pathogenesis, clinical course and treatment
121. Chronic renal failure – stages and clinical course

VIII. TOXICOLOGY AND ALLERGIC DISORDERS.

122. Toxicodynamics and toxicokinetics of exogenous poisons
123. Treatment of acute exogenous poisoning
124. Acute exogenous poisoning with medicines used to treat cardiovascular diseases, benzodiazepines, antipsychotics, antidiabetic, antipyretic and analgesic and antiemetic agents
125. Acute exogenous poisoning with alcohols: ethanol, methanol, ethylene glycol
126. Acute exogenous poisoning with psychoactive substances
127. Acute exogenous poisoning with organophosphorus compounds
128. Acute exogenous poisoning with carbon monoxide
129. Snake venom poisoning
130. Acute exogenous poisoning with mushrooms
131. Hereditary angioedema
132. Asthma: epidemiology, pathogenesis, clinical features, diagnosis and differential diagnosis.
133. Insect allergy
134. Food allergy
135. Drug allergy: type I, II, III
136. Drug allergy: type IV a, b, c, d
137. Anaphylaxis
138. Hypersensitivity Pneumonitis

IX. ONCOLOGIC DISEASES

139. Renal tumors
140. Lung cancers

141. Esophageal cancer
142. Gastric cancer
143. Tumors of the colon
144. Liver tumors
145. Pancreatic cancer
146. Carcinoma of the biliary ducts
147. Tumor of the thyroid gland

X. PRINCIPALS OF TREATMENT

148. Treatment of peptic diseases of the gastrointestinal tract
149. Treatment of Helicobacter pylori infection
150. Principles in treatment of chronic liver disease
151. Treatment of chronic viral hepatitis
152. Treatment of the liver cirrhosis complications: esophageal varices, ascites, spontaneous bacterial peritonitis, hepato-renal syndrome, encephalopathy
153. Treatment of chronic cholestasis
154. Antibacterial treatment of the biliary tract infection
155. Treatment principles in poisoning
156. Treatment of urinary tract infection
157. Treatment in glomerulonephritis
158. Diabetes mellitus - treatment with insulin and oral medications
159. Treatment of diabetic complications.
160. Treatment with NSADS
161. Treatment in predialysis period of chronic renal failure and indications for dialysis
162. Clinical and pharmacological approach in NSAIDs therapy.
163. Treatment of bacterial infection
164. Treatment with diuretics
165. Treatment with steroids
166. Treatment with immunomodulators
167. Treatment with cytostatics
168. Treatment of the thrombembolism
169. Treatment of pneumonia
170. Treatment of asthma.

6.Academic literature:

Harrison's Principles of Internal Medicine 16-19th editions