List of theoretical questions for preparing students for final module control

Module 5. Congenital anomalies in children

on 2020 – 2021 year of study

- 1. Ethiopathogenesis of congenital malformations. The concept of norm, anomaly and flaw.
- 2. Embiropathogenesis of respiratory system defects. Opportunities for prenatal diagnosis.
- 3. Classification of birth defects of the respiratory system.
- 4. Clinical symptoms and syndromes in congenital respiratory tract and lung defects.
- 5. Methods of diagnosis of congenital defects of the respiratory system. Modern radiation and endoscopic technologies.
- 6. Functional airway stenoses due to congenital malformations. Laryngomalacia and tracheomalacia. Clinical picture, diagnosis, treatment.
- 7. Subordinated organic stenosis: congenital, postintubation, hemangioma. Clinic, diagnostics, principles of treatment.
- 8. Congenital tracheal stenosis (full rings). Options, clinic, diagnosis, treatment principles.
- 9. Compression tracheal stenoses. Anatomical variants of the vascular ring.
- 10. Full vascular ring: double aortic arch and right aortic arch. Clinic, diagnostics, principles of treatment.
- 11. Incomplete vascular ring: aberrant right subclavian artery, abdominal trunk anomalies. Clinic, diagnostics, principles of treatment.
- 12. Pulmonary artery loop. Options, clinic, diagnosis, treatment principles.
- 13. Tracheal compression stenosis in tumors and cysts of the mediastinum. Nosology variants, clinical manifestations, diagnostic methods, treatment principles.
- 14. Congenital isolated tracheostriacid fistula. Clinic, diagnostics, principles of treatment.
- 15. Congenital pulmonary emphysema. Pathogenesis, clinic, diagnosis, principles of treatment.
- 16. Aplasia, lung agenesis. Anatomical and pathophysiological features.
- 17. Lung aplasia. Pathogenesis, clinic, diagnostics, differential diagnostics, possibilities of surgical treatment.
- 18. Congenital lung cysts. Classification, diagnosis, complications, surgical treatment.
- 19. Pulmonary sequestration. Options, features of pathogenesis, clinic, diagnosis, treatment.
- 20. Bronchiectasis. Clinic, diagnosis, treatment.
- 21. Tracheostomy. Indications and contraindications. Technique of execution.
- 22. Classification of esophageal atresia. Opportunities for prenatal diagnosis of esophageal atresia.
- 23. Clinical picture of atresia of a newborn esophagus. Causes of aspiration

pneumonia in various forms of esophageal atresia.

- 24. Clinical picture of atresia of a newborn esophagus.
- 25. Diagnosis of esophageal atresia (radiography, esophageal sensing, esophagography). Causes of aspiration pneumonia in various forms of esophageal atresia.
- 26. VACTERL Association for esophageal atresia. Clinical manifestations, principles of diagnosis and treatment.
- 27. Preoperative preparation in children with esophageal atresia.
- 28. Choice of surgical tactics depending on the form of esophageal atresia. Gastrostomy. As a method of preparation for radical surgery for atresia of the esophagus. Radical surgery for atresia of the esophageal fistula.
- 29. Complications of surgical treatment of esophageal atresia (insufficiency of anastomosis sutures). Clinical manifestations, principles of diagnosis and treatment.
- 30. Complications of surgical treatment of esophageal atresia (recurrence of tracheo-esophageal fistula). Clinical manifestations, methods of imaging, principles of treatment.
- 31. Complications of surgical treatment of esophageal atresia (postoperative esophageal stenosis). Clinical manifestations, methods of diagnostics, methods of treatment.
- 32. Complications of surgical treatment of esophageal atresia (gastric esophageal reflux). Clinical manifestations, diagnosis, conservative and surgical treatment.
- 33. Tracheomalacia associated with esophageal atresia. Causes, clinical manifestations, methods of diagnosis, methods of treatment.
- 34. Congenital isolated tracheosophageal fistula a place in the classification of esophageal atresia, and its origin, clinical picture and diagnosis, treatment principles.
- 35. Laryngotracheostracheal cleft. Diagnosis and treatment principles.
- 36. Definition of "congenital diaphragmatic hernia". Classification. Mechanism of formation of defect.
- 37. Pulmonary hypoplasia and pulmonary hypertension in congenital diaphragmatic hernia. Causes of formation, morphological characteristics.
- 38. Methods of prenatal diagnosis of congenital diaphragmatic hernia. What are the possibilities of prenatal prognosis for survival of a newborn with VDH?
- 39. What are the clinical manifestations of congenital diaphragmatic hernia in a newborn? What diagnostic methods are used to confirm the diagnosis?
- 40. Assistance to a newborn with congenital diaphragmatic hernia in the delivery room. Principles of preoperative stabilization.
- 41. Principles of surgical treatment of VDG. Operational accesses. Ways to close the diaphragm defect.
- 42. Postoperative management of newborns with VDH.
- 43. What surgical and non-surgical complications arise after correction of congenital diaphragmatic hernia? Possibilities of their prevention.
- 44. Features of clinical course and modern methods of diagnosis of congenital

hypertrophic pylorostenosis.

- 45. Preoperative preparation, surgical treatment of congenital hypertrophic pylorostenosis. Laparoscopy capabilities.
- 46. Duodenal intestinal obstruction: causes, prenatal diagnosis, diagnostic algorithm in the newborn.
- 47. Stages of physiological intestinal rotation.
- 48. Classification of bowel rotation and fixation disorders.
- 49. Clinical manifestations of diagnostics and treatment of intestinal rotation disorders, period I.
- 50. Syndrome (triad) Leda. Definitions, clinical manifestations, principles of treatment.
- 51. Intestinal rotation disorders, period III. Types, clinical manifestations, methods of diagnosis and principles of treatment.
- 52. Complications of rotational anomalies, their prevention and treatment.
- 53. Classification of atresia of the small intestine. Pre- and postnatal diagnosis. Principles of treatment.
- 54. Hirschsprung's disease. Definition, anatomical forms.
- 55. Clinical manifestations of Hirschsprung's disease depending on the form of the course.
- 56. Current principles of diagnosis of Hirschsprung's disease.
- 57. Principles of surgical treatment of Hirschsprung's disease depending on the anatomical shape, clinical course and age of the child.
- 58. Intestinal dysangliosis, hypogangliosis and other disorders of intestinal motility. Clinical manifestations, possibilities of diagnostics and differential diagnostics with Hirschsprung's disease.
- 59. Meconial intestinal obstruction. Etiology, pathogenesis, clinical manifestations.
- 60. Conservative and surgical treatment of meconial intestinal obstruction.
- 61. Anorectal malformations in boys. Types, clinical manifestations.
- 62. Anorectal malformations in girls. Types, clinical manifestations.
- 63. Cloacal form of anorectal atresia. Classification, associated defects, clinical manifestations, complications.
- 64. Current principles of treatment of anorectal malformations.
- 65. Complications after surgical correction of anorectal malformations, their prevention. Social and medical rehabilitation.
- 66. Prenatal diagnosis of malformations of the anterior abdominal wall: timing of diagnosis, methods of diagnosis, biochemical markers.
- 67. Clinical manifestations of gastroschisis.
- 68. Treatment of gastroschisis.
- 69. Definition, classification, clinical manifestations of omphalocele. Structure of hernia membranes.
- 70. Methods of surgical treatment of omphalocele.
- 71. Associated malformations, complications, prognosis of gastroschisis and omphalocele.
- 72. Differential diagnosis of gastroschisis and omphalocele.
- 73. Causes, features of anatomic structure of inguinal hernias in children.

Principles of surgical treatment.

- 74. Complications of inguinal hernia in children, their prevention, treatment.
- 75. Umbilical hernia in children. Clinical manifestations, possible complications, principles of treatment, timing of surgery.
- 76. Rare forms of malformations of the anterior abdominal wall. Muscle aplasia ("plum syndrome") clinical manifestations, concomitant defects, complications.
- 77. Surgical anatomy of the liver: relation to the peritoneum, ligaments of the liver, surfaces, division into quinoa segments, gates of the liver.
- 78. Definition, classification of choledochal cysts.
- 79. Clinical manifestations of choledochal cyst.
- 80. Methods of diagnosis of choledochal cyst.
- 81. Principles of surgical treatment of choledoch cysts. Rising cholangitis prevention.
- 82. Biliary atresia: defect definition, probable causes, classification.
- 83. Clinical manifestations and methods of diagnosis of miliary atresia.
- 84. Methods of treatment of miliary atresia. The prognosis of the disease.
- 85. Liver cysts: types, clinical manifestations, methods of diagnosis, indications for active surgical tactics.
- 86. Differential diagnosis of congenital and parasitic liver cysts.
- 87. What are the anomalies of the position, number and relationship of the kidneys? Their clinical manifestations, diagnosis, prognosis.
- 88. Cystic kidney anomalies: types, clinical manifestations, complications, principles of treatment.
- 89. Congenital hydronephrosis: causes, clinical manifestations.
- 90. Methods of diagnosis of hydronephrosis in children. Determination of kidney function.
- 91. Principles of surgical treatment of hydronephrosis in children.
- 92. Bladder-ureteric reflux in children: causes, clinical manifestations, complications, principles of treatment.
- 93. Bladder extrophy: clinical manifestations, complications, options for correction.
- 94. Epidadia: definitions, clinical manifestations, principles of treatment.
- 95. Hypospadias: definitions, types, clinical manifestations, principles of treatment.
- 96. Cryptorchidism: definition, classification, clinical manifestations, principles of treatment.
- 97. Phimosis: definitions, causes, complications, treatment principles. Physiological phimosis.
- 98. Paraphimosis. Definitions, causes, clinical manifestations, first aid.
- 99. Youth kyphosis: definition, classification, clinical manifestations.
- 100. Youth kyphosis: principles of treatment, criteria of effectiveness.
- 101. Congenital scoliosis: definitions, clinical manifestations, principles of treatment.
- 102. Idiopathic scoliosis: definitions, principles of classification.
- 103. Idiopathic scoliosis: principles of treatment depending on the degree of deformity.

- 104. Calve disease: definitions, principles of treatment.
- 105. Instrumental methods of research of patients with scoliosis.
- 106. Corsetotherapy for malformations of the spine in children.
- 107. Principles of surgical treatment of scoliosis in children.
- 108. Differential diagnosis of scoliotic posture and scoliosis.
- 109. What are the most common malformations of the musculoskeletal system in children?
- 110. What is muscle curvature?
- 111. What is congenital tick-bearing?
- 112. What are the later symptoms of congenital hip dislocation?
- 113. What are the early symptoms of congenital hip dislocation?
- 114. At what time after birth can a baby be diagnosed with congenital cliché?
- 115. When should conservative treatment for congenital cliché be started?
- 116. What is the normal acetabular angle in newborns?
- 117. Modern treatment of cliché?
- 118. What surgery is used to treat muscle curvature?
- 119. What type of surgery for the treatment of funnel deformities of the chest is used most often at the present stage?
- 120. What is a characteristic symptom of kidney fungal deformity in children do you know about?
- 121. What developmental vascular malformation underlies the pathogenesis of Paland syndrome?
- 122. What indicator is used to determine the degree of deformity in funnel deformities of the chest?
- 123. What are the symptoms characteristic of Marfan syndrome?
- 124. Optimal age for surgical treatment of LDHK?
- 125. To what degree of deformation does the Gizycka index of 0.48 correspond in patients with fungal deformity of the chest?
- 126. What is the ratio of boys to girls among LDC patients?
- 127. What is a normal chest excursion?
- 128. What are the complications of surgical treatment of chest deformities?

The Head of the Chair

associated professor

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