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## **Questionnaire for State Examination in Pediatrics**

1. Periods in childhood and its common pathology: newborn, infant, toddler, preschool- and school - age child.
2. Physical growth and development. Factors and criteria. Assessment of growth and development.
3. Psychomotor development: factors and criteria. Assessment of psychomotor development of 0 – 12 months age infants. Etiology of delayed development.
4. General principles of rational nutrition in infants and toddlers.
5. Breast – feeding: definition. Advantages of breast-feeding. Promotion of breast-feeding. Introduction of solid foods.
6. Human milk: composition, biologic properties.
7. Bottle feeding: definition. Disadvantages of bottle –feeding.
8. Formulas. Principles for adaptation of cow’s milk. Differences between human milk, cow’s milk and formulas.
9. Nutrition in toddlers (1-3 years).
10. General principles of dietary therapy. Dietary regimens in acute infectious diseases, ulcer, acute glomerulonephritis, diabetes mellitus.
11. General principles of therapy in newborn, infants, toddlers, preschool- and school-age children.
12. General aspects of antibacterial therapy: principles, indications, undesired consequences.
13. Symptomatic treatment of common symptoms in children: fever, cough, abdominal pain.
14. General principles of prophylaxis in children – primary, secondary and tertiary.
15. Fluid and electrolyte homeostasis – physiology and disorders.
16. Fluid and electrolyte homeostasis – rehydration therapy.
17. Acid – base balance: regulation, disorders and their treatment.
18. Rickets: vitamin D deficiency – etiology, pathogenesis, clinical manifestations, diagnosis, treatment and prophylaxis.
19. Nutritional disturbances: undernutrition, obesity in children.
20. Morphologic and physiologic features and methods of examination of the respiratory system in children: history, physical examination, laboratory data.
21. Acute respiratory failure.
22. Upper respiratory tract infections: rhinitis, rhinopharyngitis, tonsilopharyngitis.
23. Laryngitis and laryngotracheobronchitis.
24. Bronchitis and bronchiolitis.
25. Acute pneumonia: lobular, lobar, interstitial.
26. Destructive pneumonia.
27. Treatment of the acute respiratory infections. Foreign body in the airways
28. Chronic pneumonia: etiology, pathogenesis, clinical presentation, diagnosis, treatment and prophylaxis.

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29. Cystic fibrosis.
30. Allergy and allergy diseases in children: etiology, pathogenesis, clinical manifestations, diagnosis, treatment and prophylaxis.
31. Asthma.
32. Morphologic and physiologic features and methods of examination in pediatric cardiology.
33. Congenital heart malformations: etiology, pathogenesis, classification. Principles of treatment.
34. Congenital heart malformations with left-to-right shunt.
35. Congenital heart malformations with right-to-left shunt.
36. Congenital heart malformations without shunt.
37. Heart failure: etiology, clinical presentation, diagnosis, differential diagnosis between cardiac and pulmonary insufficiency. Treatment.
38. Connective tissue diseases: etiology, pathogenesis, morphology, clinical presentations, diagnosis and treatment.
39. Juvenile rheumatoid arthritis.
40. Other connective tissue diseases: systemic lupus erythematosus, periarteritis nodosa, dermatomyositis, mixed connective tissue disease.
41. Acute rheumatic fever: etiology, pathogenesis, morphology, clinical presentation, diagnosis, treatment and prophylaxis.
42. Joint pain – differential diagnosis.
43. Morphologic and physiologic features and examination of kidneys and urinary tract.
44. Acute glomerulonephritis.
45. Chronic nephritis.
46. Nephrotic syndrome.
47. Kidney and urinary tract infections.
48. Congenital urinary tract malformations.
49. Urolithiasis.
50. Acute and chronic renal failure.
51. Hematuria – differential diagnosis.
52. Morphologic and physiologic features of gastrointestinal system in children. Methods of examination.
53. Acute diarrhea in children.
54. Chronic diarrhea in children: lactase deficiency, cow's milk protein intolerance, celiac disease, maldigestion in cystic fibrosis.
55. Peptic ulcer and chronic gastritis.
56. Vomiting: differential diagnosis, treatment.
57. Abdominal pain: differential diagnosis.
58. Hepato- and splenomegaly in children: differential diagnosis.
59. Chronic hepatitis and cirrhosis.

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- 60.Characteristic features of blood in different periods of childhood: quantity, red and white blood cells.
- 61.Anemias in children: classification. Aplastic anemias – primary and secondary.
- 62.Deficiency anemias: iron, vit B12, folic acid, protein.
- 63.Hemolytic anemias- acute and chronic.
- 64.Bleeding disorders in children.
- 65.Malignancy in children: etiology, pathogenesis, diagnosis, therapy.
- 66.Acute leucemias.
- 67.Lymph nodes enlargement: differential diagnosis.
- 68.Morphologic and physiologic features and examination of the nervous system in children.
- 69.Seazures in children: differential diagnosis and therapy.
- 70.Coma in children: differential diagnosis and therapeutic approach.
- 71.Central nervous system infections: meningitis, encephalitis.
- 72.Common neurotic manifestations in children: enuresis, stuttering, loss of apetitis.
- 73.Pituitary diseases. Pituitary nanism.
- 74.Short stature – differential diagnostic approach.
- 75.Hypothyroidism.
- 76.Congenital adrenal hyperplasia.
- 77.Puberty: physiology and pathology.
- 78.Diabetes: etiology, pathogenesis, clinical manifestations, diagnosis, treatment.
- 79.Complications of diabetes in children: hyperglycemic coma – pathogenesis, clinical presentation, treatment.
- 80.Accidents in children: rate, causes, treatment.
- 81.Poisonings in children: definition, epidemiology, main clinical presentations, diagnosis.
- 82.Low birth weight infant: causes, characteristic features, pathology.
- 83.Neonatal infections.
- 84.Asphyxia in the newborn.
- 85.Trauma of labor and delivery. Neonatal jaundice.

#### Recommended literature:

1. Robert M. Kliegman, “Nelson Textbook of Pediatriks 19<sup>th</sup> ed.”
2. O. P. Ghai “Essencial Pediatriks 7<sup>th</sup> ed.”CBS Publishers, Neu Delhi, 2009

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