## **Topic lists for Pediatrics final exam**

## I. Topic list

- 1. General aspects of biochemical and microbiological investigations
- 2. Normal psychomotor development in childhood (different age groups). Child growth percentiles. Anthropometry.
- 3. Prevention of infectious disease, immunisation
- 4. Nutrition of the healthy infant: breastfeeding and weaning. Breastmilk composition. Energy requirements.
- 5. Definition, causes and investigation of malnutrition
- 6. Perinatal definitions. Perinatal mortality.
- 7. Newborn care, Apgar score
- 8. Neonatal resuscitation
- 9. Perinatal asphyxia
- 10. Disorders of neonatal cardiovascular adaptation
- 11. Disorders of neonatal respiratory adaptation and lung diseases
- 12. Haematological disorders of neonatal adaptation (polycythaemia, haemolytic disease of the newborn)
- 13. Neonatal jaundice, differential diagnosis of jaundice.
- 14. Brain injury in neonates. Neonatal seizures
- 15. Neonatal infections
- 16. Acute surgical problems in the neonate
- 17. Complications of prematurity (BPD, ROP, NEC)
- 18. Sudden infant death syndrome
- 19. Paediatric resuscitation
- 20. Type of shocks and their treatment
- 21. Type of genetic disorders. Methods of chromosomal analysis.
- 22. Chromosomal abnormalities
- 23. Monogenic and polygenic disorders. Mitochondrial inheritance.
- 24. Clinical signs in congenital metabolic disorders
- 25. Diagnostic tools in congenital metabolic disorders
- 26. Congenital metabolic disorders of glucose and glycogen metabolism
- 27. Congenital metabolic disorders of amino acid metabolism
- 28. Porphyrias
- 29. Dyslipidaemias
- 30. Lipid storage disorders
- 31. Primary immunodeficiency
- 32. Phagocytic disorders
- 33. Secondary immunodeficiency
- 34. Juvenile idiopathic arthritis
- 35. Joint infections. Infection related arthritis.
- 36. Systemic autoimmune diseases
- 37. Vasculitis in children
- 38. The most common allergic disease (except asthma bronchiale)
- 39. Congenital anomalies of the central nervous system. Hydrocephalus.
- 40. Infantile cerebral palsy
- 41. Central nervous system infections
- 42. Parainfectious and immune mediated inflammations of the central nervous system. Sclerosis multiplex.
- 43. Guillan-Barré syndrome
- 44. Neurocutaneous syndromes
- 45. Head injury and it's complications

- 46. Seizures
- 47. Facial palsy
- 48. Neuromuscular disorders
- 49. Myopathies
- 50. Acyanotic congenital heart diseases
- 51. Cyanotic congenital heart diseases
- 52. Myocarditis
- 53. Cardiomyopathies
- 54. Heart failure
- 55. Hypertension in children
- 56. Deep vein thrombosis

## II. Topic list

- 1. Disorders of the ear
- 2. Common disorders of the nose and sinuses
- 3. Mouth and throat disorders
- 4. Laryngeal disorders
- 5. Obstructive sleep apnoea
- 6. Congenital disorders of the lung
- 7. Epiglottitis, tracheitis
- 8. Obstructive bronchitis
- 9. Asthma bronchiale
- 10. Pneumonias
- 11. Cystic fibrosis
- 12. Aspiration, foreign body of the airway
- 13. Pneumothorax
- 14. Disorders of the oesophagus
- 15. Disorders of the stomach
- 16. Ileus, intussusception
- 17. Bowel motility disorders (Hirschsprung-disease)
- 18. Disorders of malabsorption
- 19. Coeliac disease
- 20. Inflammatory bowel disease
- 21. Indirect hyperbilirubinemia
- 22. Cholestasis
- 23. Acute liver failure, acute hepatitis
- 24. Metabolic diseases of the liver
- 25. Autoimmune hepatitis
- 26. Disorders of the exocrine pancreas
- 27. Disorders of hypophysis
- 28. Disorders of the adrenal glands
- 29. Growth disorders
- 30. Disorders of puberty
- 31. Gonadal disorders
- 32. Disorders of the thyroid gland
- 33. Disorders of the parathyroid
- 34. Diabetes mellitus
- 35. Congenital anomalies of the urinary tract
- 36. Cystic renal disorders
- 37. Glomerular disorders
- 38. Haemolytic uremic syndrome
- 39. Henoch-Schönlein purpura
- 40. Tubular disorders

- 41. Urinary tract infections
- 42. Acute renal failure
- 43. Chronic renal failure
- 44. Urinary lithiasis
- 45. Surgical disorders of external and internal genitals
- 46. Leukocyte disorders
- 47. Platelet disorders
- 48. Thrombosis, thrombophilia
- 49. Leukaemias
- 50. Lymphoma
- 51. Histiocytosis syndromes
- 52. Brain tumors
- 53. Neuroblastoma
- 54. Retinoblastoma
- 55. Nephroblastoma
- 56. Neoplasms of the liver
- 57. Neoplasms of bone
- 58. Soft tissue sarcomas
- 59. Gonadal and germ cell neoplasms
- 60. Bone marrow transplant

## III. Topic list (Differential diagnosis)

- 1. The unconscious child
- 2. Paediatric headaches
- 3. Sore throat
- 4. Fever of unknown origin
- 5. Paediatric rashes
- 6. Allergic skin diseases
- 7. Chough
- 8. Heart murmurs
- 9. Arrhythmias
- 10. Principles of fluid and electrolyte balance and their disorders
- 11. Principles of acid-base balance and it's disorders
- 12. Hypo-, and hyperglycaemia
- 13. Obesity in children
- 14. Lymphadenopathy
- 15. Acute abdomen
- 16. Abdominal mass
- 17. Chronic abdominal pain
- 18. Differential diagnostics of vomiting
- 19. Differential diagnostics of diarrhoea
- 20. Eating disorders in children
- 21. Behavioural disorders in children
- 22. Hematemesis
- 23. Bloody stool
- 24. Anaemia in children
- 25. Haemostatic disorders
- 26. Hepatomegaly, splenomegaly
- 27. Differential diagnostic of oedema
- 28. Haematuria
- 29. Polyuria, polydipsia
- 30. Causes of enuresis in children