

LIST OF QUESTIONS FOR FINAL CONTROL
discipline "Pediatrics, including medical practice (professional training)
childhood diseases"
2023-2024

1. The organization of neonatal care in Ukraine.
2. Medical care for healthy newborn baby.
3. Medical care for newborn baby with low weight birth rate.
4. The definition of "prematurity". Classification of preterm infants in terms of "birth weight" ratio and physical development and gestational age.
5. The causes of intrauterine developmental delay. Adaptive peculiarities in children with IUGR, principles of nursing.
6. Assessment of morphological and functional neuro-maturity premature infants (on Balard scale).
7. Features thermoregulation of premature infants, hypothermia prevention methods.
8. Prevention and treatment of hypoglycemia in premature babies.
9. Mechanisms of hyperbilirubinemia of premature infants consequences. Tactics.
10. Emergency aid for apnea in preterm infants. Indications for mechanical ventilation. Complications of prolonged mechanical ventilation, bronchopulmonary dysplasia, retinopathy of premature children.
11. Developmental stages of premature infants. Transportation principles. Criteria for discharging from the hospital. Features of children's observation in out-patient's department. Prevention of anemia, lactose deficiency, dysbiosis, rickets.
12. Principles of feeding preterm infants. The choice method for feeding depending on the gestational age and the child.
13. Etiological, clinical and laboratory criteria for the diagnosis of "asphyxia newborn", pathogenesis asphyxia. Criteria for severity of asphyxia.
14. Neonatal resuscitation and neonatal postresuscitation.
15. Definition of "birth trauma" and factor in its development.
16. Maternity soft tissue injuries. Adyponecrosis. Damage of the sternoclavicular-mastoid muscle. The differential diagnosis of tumors and labor cephalhematoma.
17. The birth trauma of the spinal cord and brachial plexus. Paresis and paralysis of Duchenne-Erb, Dezherin-Klyumpke.
18. Differential diagnosis of hypoxic intracerebral hemorrhage and traumatic genesis in newborns.
19. The concept of pulmonary surfactant system. Factors of RDS in infants. The methods of antenatal prophylaxis.
20. Assessment of respiratory insufficiency depending on severity of RDS. Diagnosis of RDS.
21. Principles of treatment of RDS in infants.
22. Classification of pneumonia in infants, depending on the route and duration of infection. Etiology.
23. Risk factors for pneumonia in infants. Pathogenesis. Peculiarities of pneumonia in infants, depending on the route of infection and etiology.
24. The principles of diagnosis and treatment of pneumonia in infants.
25. Erythrocyte antigen system blood. Etiology, pathogenesis of HDN. Classification. Clinical and laboratory criteria of anemia, jaundice and oedematous forms of HDN.
26. The methods of antenatal diagnosis and prevention of hemolytic disease of the fetus. Treatment of Rh disease. Indications for replacement surgery blood transfusion. Technology operation and its possible complications.
27. Features of the hemostatic system in newborns. Factors of hemorrhagic disease. Clinical features of early, classic and late hemorrhagic form of the disease.
28. Differential diagnosis of hemorrhagic disease and syndrome "swallow blood." Emergency

aid for gastrointestinal bleeding. Treatment and prevention of hemorrhagic disease.

29. The definition of "TORCH"- infection." Risk factors IUI. The nature of the defeat at IUI depending on the term and the way of infection of the fetus. Methods for early diagnosis and prevention IUI.

30. Clinical manifestations of IUI depending on the etiology (congenital toxoplasmosis, rubella, neonatal herpes and cytomegalovirus infection). Principles of treatment IUI. Causal and immunotherapy.

31. Omfalitis. The etiology. Pathogenesis. Classification. Diagnosis. Prevention and treatment.

32. Vesiculopustulosis, pemphigus newborn exfoliative dermatitis Ritter. Etiology, Clinic, treatment. Prevention.

33. The definition of "neonatal sepsis". Factors of development. Classification, etiology, clinical and laboratory diagnostic criteria. Principles of treatment and prophylaxis of neonatal sepsis.

34. The question of bioethics in modern perinatology and neonatology.

35. The definition of anemia. Classification of anemia in children.

37. Posthemorrhagic anemia in children. Etiology, pathogenesis, diagnostics.

38. Leukemia in children. Causes and classification of leukemia. Clinical manifestation, diagnosis and differential diagnosis of acute leukemia in children with lymphoblastic leukemia.

39. Principles of treatment of leukemia in children (acute lymphoblastic leukemia, acute myeloid leukemia, chronic myeloid leukemia). Cytostatics. Classification healing vehicles used as cytostatics. Indications for their use. Complications after cytostatic therapy (immediate, delayed, deleted).

40. Classification of hemoblastoses. Lymphogranulomatosis in children. Etiology, pathogenesis, disease stage.

41. Diagnostics, differential diagnostics of lymphogranulomatosis in children with other lymphadenopathy, lymphadenitis, hematological malignancies. Clinic, treatment, prognosis lymphogranulomatosis in children. Emergency aid for compression of the superior vena cava syndrome.

42. Classification of hemorrhagic disease in children.

43. Hemophilia A and B. Etiology, pathogenesis, clinical manifestations, diagnosis.

44. Hemoragic vasculitis of children. Etiology, pathogenesis, clinical forms, differential diagnosis diagnostics, treatment, prognosis.

45. Trombocytopenic purpura of children. Etiology, pathogenesis, Clinic, diagnosis, differential diagnosis, treatment and prognosis. An immediate aid for bleeding.

46. Diabetes mellitus in children. Etiology, pathogenesis, clinical manifestations, diagnosis. Features of diabetes in early and adolescence children. Criteria compensation of diabetes in children.

47. Daily insulinothrapy for diabetes mellitus in children. Preparations of insulin.

48. Dietary features in compensated and uncompensated diabetes in children.

49. Hyperglycemic coma children. Causes, clinical picture, diagnosis, emergency care.

50. Hypoglycemic coma in children. Causes, clinical picture, diagnosis, emergency care.

51. Differential diagnosis of hyperglycemic and hypoglycemic coma in children.

52. Violation of growth in children. pituitary dwarfism. Causes, clinic, differential diagnosis. Treatment and prognosis.

53. Obesity in children. Causes, clinical form. Principles of complex treatment of different clinical forms obesity in children. Prevention.

54. Autoimmune thyroiditis in children. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prognosis.

55. Diffuse toxic goiter in children. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Treatment. Forecast.

56. Endemic goiter in children. Causes, clinic, diagnostics, treatment, prevention.

57. Hypothyroidism in children. Etiology, pathogenesis, clinic, early diagnosis and treatment.

The list of laboratory and instrumental tests, medical manipulations and emergencies the student should master

I. Analysis of laboratory and instrumental research

1. Clinical blood analysis
2. Urine analysis
3. Urine analysis according to Zimnitsky
4. Fecal calprotectin tests
5. Pancreatic elastase-1 analysis
6. Clinical analysis of feces
7. Blood protein and its fractions, acute phase inflammatory markers
8. Blood glucose
9. Blood electrolytes
10. Blood lipid profile
11. Blood alkaline phosphatase
12. Blood transaminases
13. Creatinine, urea in serum blood
14. Total blood bilirubin and its fractions
15. Coagulogram
16. Analysis of pleural fluid
17. Synovial fluid analysis
18. Cerebrospinal fluid test
19. General immunological profile of blood
20. Serological reactions in autoimmune diseases
21. Microbiological tests for biological fluids and secretions
22. X-ray examination of the central nervous system, chest and abdominal organs, urinary system.
23. Spirography
24. ECG
25. Bronchoscopy
26. Endoscopic examination of the digestive tract
27. Echocardiography
28. X-ray examination of bones and joints
29. Radiation examination of the central nervous system
30. Tuberculin diagnosis
31. Fractional study of gastric juice, bile and pH-metry of the stomach

II. Medical manipulations

1. ECG registration
2. Medical injections of drugs
3. Blood pressure measuring
4. Catheterization of the bladder with a soft probe
5. Pleural puncture carrying out
6. Artificial respiration, indirect heart massage carrying out
7. Blood group and Rh factor estimation

III. Assistance in emergency situations

1. Severe degree asthma attack
2. Anaphylactic shock
3. Acute respiratory failure
4. Acute heart failure
5. Paroxysmal tachycardia

6. Morganyi-Adams-Stokes syndrome
7. Hypertensive crisis
8. Collapse
9. Acute liver failure
10. Acute kidney injury
11. Gastrointestinal bleeding

Recommended literature

Basic

1. Nelson Textbook of Pediatrics, 2-Volume Set (Nelson Pediatrics) 21st Edition by Robert M. Kliegman MD, Joseph St. Geme MD, 2020, 5932 p
2. Pediatric. Textbook. Edited by Tiazhka O.V. 2018. 544p.
3. Ghai. Essential Pediatrics. 9 edition. - 2019. - 768 p.

Additional literature

1. Principles of Pediatric Nursing. Techniques for Medical Procedures and Manipulations. Edited by O.V. Tiazhka. AUS Medicine Publishing. 2016. - 144 p.
2. Strange and Schafermeyer Pediatric Emergency Medicine. Fifth Edition. 2019. 972p.
3. Oxford Handbook of Neonatology. Grenville Fox. Second Edition-2017. - 575p.

Information resources

1. European Consensus Guidelines on the Management of Respiratory Distress Syndrome - 2019 Update. <https://www.karger.com/Article/Fulltext/499361>
2. Newborn asphyxia. https://www.newbornwhocc.org/STPs/STP_Asphyxia-management_Pre-Final.pdf
3. Iron deficiency anemia. Author: James L Harper, MD; Chief Editor: Emmanuel C Besa, MD Updated: Sep 30, 202 <https://emedicine.medscape.com/article/202333-overview>
4. Neonatal Jaundice. Author: Thor WR Hansen, MD, PhD, MHA, FAAP. Updated: Dec 27, 2017 <https://emedicine.medscape.com/article/974786-overview>