

CLASS №1

ORGANIZATIONAL STRUCTURE OF A CHILDREN' S HOSPITAL. CHILD DEVELOPMENT PERIODS. PHYSICAL GROWTH AND BEHAVIORAL DEVELOPMENT. FEEDING OF INFANTS

CONTROL QUESTIONS

1. Children's hospital. Departments and units. Principles of work.
2. Age related periods/stages of child development and its' characteristics.
3. Taking anamnesis in different age groups of children.
4. Assessment of physical growth (length/height, body weight, head and chest circumferences). Growth charts.
5. Behavioral development. Key developmental milestones (motor development, communication and language).
6. Definitions of «exclusive breast-feeding». Advantages of breastfeeding.
7. Rules of breastfeeding. Ten steps to successful breastfeeding (WHO). «Self-regulation» by infants breast-feeding (breastfeeding on demand).
8. Weaning and complementary feeding. The rules of solid foods introduction.
9. Definition of «formula-feeding». Classification of infant formulas.
10. Menu planning for infants. Composition, amount and schedule.

QUESTIONS FOR CONTROLLED SELF-LEARNING

1. Hypogalactyia. Determining adequacy of milk supply.

REPORTS

1. Contraindications to breastfeeding.
2. Diet for healthy breastfeeding mothers.
3. Sexual development. Primary and secondary sexual characteristics. Sexual maturity rating (Tanner's stages).

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
3. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbutis, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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Additional sources

1. Paramonova, N. S. Introduction to pediatrics [Электронный ресурс] : учеб. пособие: допущ. М-вом образования Респ. Беларусь для студ. учреждений высш. образования по мед. специальностям / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, 2012.
2. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
3. Rudolph's pediatrics/ ed.-in-chief Colin D. Rudolph, ed.: Abraham M. Rudolph [et al.], 2011. – L.V. - P. 2488.
4. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6th Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №2
PROTEIN-ENERGY MALNUTRITION. OVERWEIGHT

CONTROL QUESTIONS

1. Anatomy and physiology of digestive system in infants and toddlers.
2. Protein, fats and carbohydrates consumption in healthy children.
3. Definition of «malnutrition», «undernutrition», «failure to thrive», «short stature», «overweight», «obesity».
4. Classifications of undernutrition/malnutrition. Acute and chronic malnutrition. Stunting and wasting.
5. Causes of undernutrition (protein-energy malnutrition (PEM)).
6. Clinical manifestations of undernutrition. Main syndromes of undernutrition. Severe PEM (kwashiorkor, marasmus).
7. Diagnosis of PEM. Instrumental and laboratory tests.
8. Management of children with PEM. WHO recommendations (10 essential steps).
9. Stages of dietary therapy for PEM. Enteral and parenteral nutrition.
10. Rehabilitation and follow-up after recovery children with PEM.

QUESTIONS FOR CONTROLLED SELF-LEARNING

1. Overweight and obesity.

REPORTS

1. Celiac disease.
2. Cystic fibrosis. Gastrointestinal manifestations.
3. Lactase intolerance.
4. Pyloric stenosis.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
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RICKETS. HYPERVITAMINOSIS D. INFANTILE TETANY (SPASMOPHILIA)

CONTROL QUESTIONS

1. Anatomy and physiology of the musculoskeletal system in children.
2. Calcium and phosphorus. Metabolism. Biologic function. Recommended intake in healthy children.
3. Definition of «nutritional rickets». Risk factors for nutritional rickets.
4. Vitamin D functions. Role of vitamin D in rickets development.
5. Pathogenesis of rickets. Classification.
6. Clinical signs of rickets.
7. Diagnosis of rickets. Instrumental and laboratory tests. Assessment of vitamin D status.
8. Prevention and treatment of nutritional rickets. Vitamin D toxicity.
9. Infantile tetany (spasmophilia). Definition. Latent form and manifest tetany. Diagnostics. Prevention.

QUESTIONS FOR CONTROLLED SELF-LEARNING

1. Hypervitaminosis D.

REPORTS

1. Congenital hypothyroidism.
2. Rickets-like genetic diseases.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students with English medium of instruction [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
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CLASS №4
ANEMIA IN CHILDREN

CONTROL QUESTIONS

1. Complete blood count with white blood cell differential in children. Children's reference ranges. Interpretation.
2. Definition of «anemia». Classification.
3. Iron absorption and metabolism. Stages of iron deficiency. Health effects related to iron deficiency.
4. Iron deficiency anemia in children. Causes. Clinical signs.
5. Iron deficiency anemia in children. Diagnosis. Treatment.
6. Iron deficiency anemia in children. Follow-up and prevention.
7. Differential diagnosis of anemias.

REPORTS

1. Hemolytic anemia.
2. Megaloblastic anaemia. Folic acid and Vitamin B₁₂ deficiency anemia.
3. Aplastic anemia.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students with English medium of instruction [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
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CLASS №5
BRONCHITIS IN CHILDREN

CONTROL QUESTIONS

1. Anatomy and physiology of the respiratory tract in children.
2. Bronchitis. Definitions and classification. Etiology.
3. Bronchitis. Clinical signs and diagnostic criteria.
4. Bronchitis. Differential diagnosis.
5. Bronchitis. Treatment. Prevention.

QUESTIONS FOR CONTROLLED SELF-LEARNING

1. Chronic lung diseases of genetic origin: cystic fibrosis (pulmonary manifestations), primary ciliary dyskinesia (Kartagener syndrome), α_1 -antitrypsin deficiency, pulmonary hemosiderosis.

REPORTS

1. Laryngitis. Croup.
2. Epiglottitis (supraglottitis).

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students with English medium of instruction [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
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CLASS №6
PNEUMONIA IN CHILDREN

CONTROL QUESTIONS

1. Pneumonia in children. Definition. Classification.
2. Pneumonia in children. Etiology and pathogenesis.
3. Pneumonia in children. Clinical manifestations.
4. Pneumonia. Diagnosis. Approach to treatment.
5. Clinical manifestations of pneumonia depending on the causative organism (Staphylococcus aureus, Mycoplasma pneumoniae and Chlamydomphila pneumoniae, Pneumocystis jirovecii as well viruses).
6. Pneumonia complications. Management.
7. Pneumonia. Follow-up and prevention.

REPORTS

1. Respiratory failure in children.
2. Antibiotics in pediatric practice.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
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CLASS №7
BRONCHIAL ASTHMA IN CHILDREN

CONTROL QUESTIONS

1. Allergy and allergic diseases. Atopy and atopic march. Definitions.
2. Mechanisms of allergic inflammation.
3. Bronchial asthma. Definition. Risk factors and triggers for asthma.
4. Bronchial asthma. Classification.
5. Bronchial asthma. Age related clinical manifestations.
6. Bronchial asthma. Diagnosis in children.
7. Bronchial asthma. Diagnostic criteria in children up to 5 years old.
8. Principles of asthma pharmacotherapy. Long-term controller and quick-relievers medications.
9. Stepwise (step-up and step-down) approach to long-term management of asthma.
10. Asthma exacerbations and status asthmaticus. Emergency treatment.
11. Follow-up and prevention. Asthma self-management education for patients and their carers. Written asthma action plan.

QUESTIONS FOR CONTROLLED SELF-LEARNING

1. Anaphylaxis.

REPORTS

1. Atopic dermatitis in children.

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