

AUTUMN SEMESTER  
CLASS №1  
**ORGANIZATIONAL STRUCTURE OF A CHILDREN'S HOSPITAL.  
CHILD DEVELOPMENT PERIODS. PHYSICAL GROWTH AND  
BEHAVIORAL DEVELOPMENT.**

**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. Sexual development. Primary and secondary sexual characteristics. Sexual maturity rating (Tanner's stages).

**RECOMMENDED LITERATURE**

**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
2. Nelson textbook of pediatrics / A. Nelson [et al.] ; ed. by Robert M. Kliegman. – 19 th ed. – Philadelphia, 2011. – 3147 p.

**Additional sources**

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5. Pediatric physical examination : textbook for students of higher educational institutions : рекомендовано Центральным методическим кабинетом высшего медицинского образования Министерства охраны здоровья Украины / Katilov O. V. et al., – Vinnytsia : Nova Knyha, 2018. – 498 с.

CLASS №2  
**FEEDING OF INFANTS**

**CONTROL QUESTIONS**

1. Features of gastrointestinal tract in children.
2. Definitions of «exclusive breast-feeding». Advantages of breastfeeding.
3. Contraindications to breastfeeding.
4. Rules of breastfeeding. Ten steps to successful breastfeeding (WHO). «Self-regulation» by infants breast-feeding (breastfeeding on demand).
5. Weaning and complementary feeding. The rules of solid foods introduction.
6. Definition of «formula-feeding» and «partial breastfeeding».
7. Classification of infant formulas. Standard formulas.
8. Special infant formulas. Indication for using.
9. Menu planning for infants. Composition, amount and schedule.

**REPORTS**

1. Determining adequacy of milk supply.
2. Hypogalactyia
3. Diet for healthy breastfeeding mothers.

**RECOMMENDED LITERATURE**

**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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CLASS №3  
**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.

**REPORTS**

1. Overweight and obesity.
2. Celiac disease.
3. Cystic fibrosis. Gastrointestinal manifestations.
4. Lactase intolerance.
5. Pyloric stenosis.

**RECOMMENDED LITERATURE**

**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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**RICKETS. HYPERVITAMINOSIS D. INFANTILE TETANY**

**CONTROL QUESTIONS**

1. Anatomy and physiology of the musculoskeletal system in children.
2. Calcium phosphorus and. 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.

**REPORTS**

1. Hypervitaminosis D.
2. Congenital hypothyroidism.
3. Rickets-like genetic diseases.

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**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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CLASS №5  
**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 B<sub>12</sub> deficiency anemia.
3. Aplastic anemia.

**RECOMMENDED LITERATURE**

**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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CLASS №6  
**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.

**REPORTS**

1. Chronic lung diseases of genetic origin: cystic fibrosis (pulmonary manifestations), primary ciliary dyskinesia (Kartagener syndrome),  $\alpha_1$ -antitrypsin deficiency, pulmonary hemosiderosis.
2. Laryngitis. Croup.
3. Epiglottitis (supraglottitis).

**RECOMMENDED LITERATURE**

**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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CLASS №7  
**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. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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CLASS №8  
**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 caregivers. Written asthma action plan.

**REPORTS**

1. Anaphylaxis.
2. Atopic dermatitis in children.

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**Main sources**

1. Парамонова, Н.С. Педиатрия = Pediatrics : учебник для студентов факультета иностранных учащихся с английским языком обучения : допущено М-вом образования Респ. Беларусь / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, Т.С. Протасевич. – Минск : Новое знание, 2021. – 599 с.
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CLASS №9  
**CONGENITAL HEART DISEASES**

**CONTROL QUESTIONS**

1. The fetal to neonatal circulatory transition. The timing of fetal communications closure (functional and anatomic closure).
2. Age-related features of the cardiovascular system.
3. Etiology of congenital heart diseases.
4. Classification of congenital heart diseases.
5. Congenital heart diseases with the left-to-right shunt lesions (acyanotic):
  - Patent ductus arteriosus (Botallo`s duct)
  - Ventricular septal defect
  - Atrial septal defect
6. Congenital heart diseases with the right-to-left shunt lesions (with cyanosis):
  - Tetralogy of Fallot
7. Congenital heart diseases with the obstructive lesions:
  - Aortic stenosis
  - Coarctation of the aorta
8. Congenital heart diseases. Diagnosis. General principles of treatment. Management.

**REPORTS**

1. Features of electrocardiography in children of various ages.
2. Emergency care for children with paroxysmal hypercyanotic attack.
3. Transposition of the great vessels.
4. Disturbances of rate and rhythm of the heart.

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**Main sources**

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