

THEMATIC PLAN
practical classes in pediatrics
for 6 year students of the Faculty of Medicine
(subordinate "General medical practice")
(for foreign citizens)
2025/2026 academic year

№	Theme of the practical lesson
1.	Acute respiratory infections in children. Respiratory failure in children.
2.	Chronic and allergic respiratory diseases in children. Anaphylaxis
3.	Acute and chronic heart failure, heart rhythm disorders in children
4.	Emergency conditions in paediatrics
5.	Kidney disease in children. Acute kidney damage. Chronic kidney disease
6.	Abdominal pain syndrome. Differential diagnosis of pain syndrome in children
7.	Physiology and pathology of the newborn period. Emergency care for asphyxia
8.	Differential diagnosis of anaemia
9.	Leukaemia. Haemorrhagic syndrome
10.	Chronic nutritional disorders. Protein-energy deficiency. Malabsorption syndrome. Helminthiasis
11.	Sepsis. Toxicoses in children of early age. Infectious-toxic shock.

Заведующий кафедрой педиатрии
с курсом ФПКиП

А.И. Зарянкина

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №1:
«ACUTE RESPIRATORY INFECTIONS IN CHILDREN. RESPIRATORY
FAILURE IN CHILDREN»**

1. Ethics and deontology in pediatrics.
2. Etiopathogenesis, classification of acute respiratory diseases in children of different ages.
3. Differential diagnosis of lesions of the upper and lower respiratory tract.
4. Pulmonary and extrapulmonary complications of pneumonia.
5. Respiratory failure syndrome. Respiratory diseases occurring with respiratory failure syndrome.
6. Modern principles of treatment of complicated and uncomplicated forms of respiratory pathology.
7. Treatment of respiratory failure.
8. Antibacterial therapy of acute pneumonia.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №2:
«CHRONIC AND ALLERGIC RESPIRATORY DISEASES IN CHILDREN.
ANAPHYLAXIS»**

1. Differential diagnosis of chronic respiratory diseases in children.
2. Etiopathogenesis of allergic diseases.
3. Allergic rhinitis. Differential diagnosis. Treatment. Prevention.
4. Bronchial asthma. Differential diagnostics. Basis therapy of bronchial asthma. Specific immunotherapy.
5. Emergency care of an attack of bronchial asthma.
6. Anaphylaxis. Emergency treatment.

**CONTROL QUESTIONS FOR THE LESSON ON THEME №3:
«ACUTE AND CHRONIC HEART FAILURE, HEART RHYTHM
DISORDERS IN CHILDREN»**

1. Clinical, ECG diagnostics, treatment tactics for various heart rhythm disorders.
2. Emergency treatment of paroxysmal tachycardia, fibrillation, flutter, asystole.
3. Acute heart failure in children. Etiopathogenesis, clinic, diagnosis. Principles of treatment of acute heart failure in children, emergency medical care. Chronic heart failure.
4. Diseases occurring with chronic heart failure.
5. Basic therapy of chronic heart failure in children.
6. Emergency treatment for paroxysmal tachycardia.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №4:
«EMERGENCY CONDITIONS IN PAEDIATRICS»**

1. Diagnosis, first aid and tactics of a general practitioner for the main pathological syndromes in children: fever, seizure syndrome, bronchoobstructive syndrome, acute stenotic laryngotracheitis.
2. Emergency conditions in cardiology: hypertensive crisis, vegetovascular crises, dyspnoea cyanotic attack.
3. First aid in accidents in children: heat stroke, acute poisoning, burns, frostbite, bites of insects, snakes, animals.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №5:
«KIDNEY DISEASE IN CHILDREN. ACUTE KIDNEY DAMAGE. CHRONIC
KIDNEY DISEASE»**

1. Nephrotic syndrome. Etiopathogenesis. Clinic. Diagnosis. Treatment.
2. Etiology, pathogenesis of acute kidney injury. Clinic. Differential diagnosis.
3. Etiology, pathogenesis of chronic kidney disease.
4. Clinical characteristics of various stages of renal failure.
5. Indications for hemodialysis in renal failure.
6. Principles of treatment of patients with renal failure

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №6:
«ABDOMINAL PAIN SYNDROME. DIFFERENTIAL DIAGNOSIS OF
PAIN SYNDROME IN CHILDREN»**

1. Acute and chronic abdominal pain.
2. Types of abdominal pain. Causes of pain syndrome depending on the age of the child.
3. Differential diagnosis of diseases occurring with abdominal pain syndrome.
4. Algorithm of examination of children with pain syndrome.
5. Emergency care, treatment of diseases with abdominal pain syndrome.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №7:
«PHYSIOLOGY AND PATHOLOGY OF THE NEWBORN PERIOD.
EMERGENCY CARE FOR ASPHYXIA»**

1. General characteristics of newborns. Borderline conditions of newborns.
2. Asphyxia, Apgar score. Emergency care.
3. Congenital pneumonia. Classification. Etiology. Pathogenesis. Clinical picture. Treatment. Dispensary supervision.
4. Intrauterine infections, mechanisms of development, risk factors. Etiology. Pathogenesis. Clinical picture. Differential diagnosis. Treatment. Dispensary supervision.
5. Differential diagnosis of neonatal jaundice. Hemolytic disease of newborns. Emergency care for nuclear jaundice.
6. Antibacterial therapy for intrauterine infections.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №8:
«DIFFERENTIAL DIAGNOSIS OF ANAEMIA»**

1. Post-haemorrhagic anaemias (acute and chronic). Etiopathogenesis. Clinic. Diagnostics. Treatment.
2. Anaemia due to erythropoiesis disorders (hypochromic, normochromic, hyperchromic). Etiopathogenesis. The clinic. Diagnostics. The treatment. 3.
3. Anemia due to increased destruction of red blood cells (hemolytic anemia). Etiopathogenesis. Clinic. Diagnostics. Treatment.
4. Differential diagnosis of anemia in children.
5. Emergency conditions in haematology: haemolytic crisis.
6. Prevention of anemia in children. Dyspenserization of children with diseases of the blood system.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №9:
«LEUKAEMIA. HAEMORRHAGIC SYNDROME»**

1. Leukemias: etiopathogenesis, classification.
2. Clinical masks of leukemias in children.
3. Diagnosis and differential diagnosis of leukemias.
4. Principles of therapy for acute lymphoblastic leukemia.
5. Causes of bleeding and hemorrhagic syndrome in children.
6. Differential diagnosis of hemorrhagic syndrome (in hemophilia, thrombocytopenic purpura, and DIC syndrome). Emergency care.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №10:
«CHRONIC NUTRITIONAL DISORDERS. PROTEIN-ENERGY
DEFICIENCY. MALABSORPTION SYNDROME. HELMINTHIASIS»**

1. Chronic eating disorders in children. Etiopathogenesis. Classification. Clinic. Diagnostics. Treatment.
2. Protein-energy insufficiency. Etiopathogenesis. Classification. Clinic. Diagnostics. Treatment.
3. Obesity. Etiopathogenesis. Classification. Clinic. Diagnostics. Treatment.
4. Differential diagnosis of malabsorption syndrome (disaccharidase deficiency, cystic fibrosis, celiac disease).
5. Treatment tactics for children with malabsorption syndrome.
6. Differential diagnosis of helminth infections in children (nematodeosis, tenidosis, trematodeosis). Treatment.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC №11:
«SEPSIS. TOXICOSES IN CHILDREN OF EARLY AGE. INFECTIOUS-
TOXIC SHOCK »**

1. Sepsis: definition, systemic inflammatory response syndrome, etiology, pathogenesis, and classification of neonatal sepsis.
2. Clinical forms of sepsis (septicemia, septicopyemia). Septic shock. Diagnosis. Principles of treatment.
3. Hemolytic-uremic syndrome (Gasser's disease). Hepatocerebral encephalopathy (Reye's disease): pathogenesis, clinical manifestations, and differential diagnosis. Emergency medical care.
4. Infectious-toxic shock: etiopathogenesis, clinic, diagnostics. Emergency medical care.
5. Antibacterial therapy of sepsis in children.