

THEMATIC PLAN
practical classes in pediatrics
for 6 year students of the Faculty of Medicine
(subordinate "General medical practice")
(for foreign citizens)
2024/2025 academic year

№	Theme of the practical lesson
1.	Aute respiratory infections in children. Differential diagnosis
2.	Acute and chronic heart failure, cardiac arrhythmias of children
3.	Convulsive and hyperthermic syndromes of children
4.	Acute kidney damage and chronic kidney disease
5.	Nephrotic syndrome
6.	Differential diagnosis of hemorrhagic disease in children
7.	Leukemia.
8.	Helminthiasis
9.	Syndrome of abdominal pain. Differential diagnostics of pain syndrome
10.	Differential diagnostics of coms. Acute and chronic adrenal insufficiency in children
11.	Sepsis. Toxicosis in children of early age. Infectious toxic shock

CONTROL QUESTIONS FOR THE LESSON ON TOPIC No. 1:
«AUTE RESPIRATORY INFECTIONS IN CHILDREN. DIFFERENTIAL
DIAGNOSIS»

1. Ethics and deontology in pediatrics.
2. Aetiology, patogenesis, classification of acute respiratory diseases.
3. Clinical manifestation according to viral agent.
4. Clinical manifestation of pneumonia according to agent.
5. Differential diagnosis respiratory diseases.
6. Urgent therapy of hyperthermic, obstructive, cardiovascular syndromes, respiratory failure.
7. Treatment of respiratory diseases.

CONTROL QUESTIONS FOR THE LESSON ON TOPIC No. 2:
“ACUTE AND CHRONIC HEART FAILURE, CARDIAC ARRHYTHMIAS
IN CHILDREN”

1. Modern ideas about the function and morphology of the conduction system of the heart.
2. Classification of arrhythmias.

3. Clinical, ECG diagnostics and medical tactics for various types of rhythm disturbance: impaired automatism, impaired excitability, impaired conduction, impaired contractility.

4. Electrocardiography, Holter monitoring and electrophysiological research in the diagnosis of arrhythmias of children.

5. Emergency care for an attack of paroxysmal tachycardia, cardiac arrest.

6. Definition of acute and chronic heart failure.

7. Acute heart failure in young children: clinical options and features of clinical manifestations. The principles of treatment of acute heart failure of children, emergency medical care.

8. Chronic heart failure: clinical presentation, diagnosis. Basic therapy of chronic heart failure of children.

CONTROL QUESTIONS FOR THE LESSON ON THEME No. 3: "CONVULSIVE AND HYPERTHERMIC SYNDROMES IN CHILDREN"

1. Hyperthermic syndrome: definition, clinical picture.

2. Criteria for prescribing antipyretic drugs to children.

3. The algorithm of emergency medical care for acute fever in children.

4. The causes of convulsive syndrome in children, the characteristic of seizures of various nature, the clinical picture, emergency laboratory research.

5. Emergency care for convulsive syndrome.

6. Anticonvulsant drugs, mechanism of action, indications and contraindications for use.

CONTROL QUESTIONS FOR THE LESSON ON TOPIC NO. 4: "ACUTE KIDNEY DAMAGE AND CHRONIC KIDNEY DISEASE"

1. Etiology and pathogenesis of acute kidney damage and chronic kidney disease.

2. The pathogenesis of syndromes in chronic renal failure.

3. Classification of renal failure. Differential diagnosis.

4. Clinical characteristics of the various stages of renal failure.

5. Diagnostic criteria for renal failure.

6. The principles of treatment of patients with renal failure.

CONTROL QUESTIONS FOR THE LESSON ON TOPIC N. 5: "NEPHROTIC SYNDROME"

1. Nephrotic syndrome: definition, classification.

2. The clinical picture of nephrotic syndrome, diagnosis.

3. The concept of primary and secondary nephrotic syndrome.

4. Treatment of nephrotic syndrome (basic, pathogenetic and symptomatic therapy).

5. The principles of corticosteroid therapy for nephrotic syndrome.
6. Medical rehabilitation and medical examination of patients with kidney diseases.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC No 6:
«DIFFERENTIAL DIAGNOSIS OF
HEMORRHAGIC DISEASE IN CHILDREN»**

1. Sepsis: definition, concepts of “systemic inflammatory response syndrome”, “compensatory syndrome of systemic inflammatory response”, infection pathways, etiology, pathogenesis, classification of neonatal sepsis.
2. Clinical forms of the disease (septicemia, septicopyemia), the concept of septic shock, the concepts of “septic shock”, “multiple organ failure”, diagnosis, differential diagnosis, the principles of complex treatment, clinical follow-up and medical rehabilitation of newborns.
3. Toxicosis Gasser, Kishsha, Rhea: pathogenesis, clinical picture, differential diagnosis. Toxic encephalopathy: pathogenesis, clinical presentation, emergency medical care.
4. Infectious-toxic shock: determination, pathogenesis, clinical picture, severity, the main clinical manifestations of shock in children in the first months of life, diagnosis, emergency medical care algorithm.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC No 7:
«LEUKEMIA»**

1. Leukemia: definition, etiology, pathogenesis, classification.
2. Clinical syndromes and types of blood patterns in leukemia.
3. Clinical manifestations of leukemia, diagnostic criteria, hemogram and myelogram indicators in acute lymphoblastic leukemia.
4. The strategy and principles of treatment of acute lymphoblastic leukemia.
5. Chronic myelogenous leukemia: clinical picture, indicators of hemo-, myelograms, treatment principles, prognosis.
6. Clinical examination of children with diseases of the blood system.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC No 8:
«Helminthiases»**

1. Anatomical and physiological characteristics of a digestive tract of children.
2. The stages of main food ingredients splitting in a digestive tract.
3. Pathomorphological changes in the mucous membrane in inflammatory diseases of digestive tract.

4. Pathophysiological mechanisms of the main pathological syndromes (pain, dyspeptic, asthenovegetative, anemic).

The life cycle of helminths, giardia.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC No 9:
« SYNDROME OF ABDOMINAL PAIN.
DIFFERENTIAL DIAGNOSTICS OF PAIN SYNDROME»**

1. Anatomical and physiological characteristics of the gastrointestinal tract in children.
2. The stages of the splitting of the main food ingredients in the digestive tract.
3. Pathomorphological changes in the mucous membrane of the gastrointestinal tract in inflammatory diseases.
4. Pathophysiological mechanisms of pain abdominal syndrome.

**CONTROL QUESTIONS FOR THE LESSON ON TOPIC No 10:
«DIFFERENTIAL DIAGNOSTICS OF COMS.
ACUTE AND CHRONIC ADRENAL INSUFFICIENCY IN CHILDREN»**

1. Coma: definition, types and severity, stage of impaired consciousness, depending on the depth of damage to the central nervous system. Glazko scale.
2. Coma for diabetes mellitus: differential diagnosis, emergency medical care.
3. Thyrotoxic coma: clinical picture, diagnosis and treatment algorithm.
4. Acute and chronic adrenal insufficiency: diagnostic criteria, emergency medical care.
5. The principles of hormone replacement therapy of various types of com.

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

1. Sepsis: definition, concepts of “systemic inflammatory response syndrome”, “compensatory syndrome of systemic inflammatory response”, infection pathways, etiology, pathogenesis, classification of neonatal sepsis.
2. Clinical forms of the disease (septicemia, septicopyemia), the concept of septic shock, the concepts of “septic shock”, “multiple organ failure”, diagnosis, differential diagnosis, the principles of complex treatment, clinical follow-up and medical rehabilitation of newborns.

3. Toxicosis Gasser, Kishsha, Rhea: pathogenesis, clinical picture, differential diagnosis. Toxic encephalopathy: pathogenesis, clinical presentation, emergency medical care.

4. Infectious-toxic shock: determination, pathogenesis, clinical picture, severity, the main clinical manifestations of shock in children in the first months of life, diagnosis, emergency medical care algorithm.