Tasks and questions for practical lessons 6th year (11th semester)

LESSON 1.

ACUTE RESPIRATORY TRACT DISEASES IN CHILDREN

CONTROL QUESTIONS:

- 1. Anatomy and physiology of respiratory system in children.
- 2. Anatomical and physiological features of respiratory tract organs in children.
- 3. Cough: the role, features of diagnostics and differential diagnosis diseases, accompanied with cough.
- 4. Acute bronchitis: etiology, pathogenesis, clinical picture, diagnostics, differential diagnosis and treatment.
- 5. Acute obstructive bronchitis: etiology, pathogenesis, clinical picture, diagnostics, differential diagnosis and treatment.
- 6. Bronchiolitis: etiology, pathogenesis, clinical picture, diagnostics, differential diagnosis and treatment.
- 7. Obliterative bronchiolitis: etiology, pathogenesis, clinical picture, diagnostics, differential diagnosis and treatment.
- 8. Recurrence bronchitis: etiology, pathogenesis, clinical picture, diagnostics, differential diagnosis and treatment.
- 9. Bronchitis due to aspiration: etiology, pathogenesis, clinical picture, diagnostics, differential diagnosis and treatment.

TOPICS FOR REPORTS:

- 1. Usage of antibacterial agents in pediatrics.
- 2. Respiratory failure.

LESSON 2.

ACUTE AND CHRONIC HEART FAILURE. HEART RHYTHM DISORDERS IN CHILDREN

CONTROL QUESTIONS:

- 1. Circulatory failure: definition, etiological factors and pathogenesis.
- 2. Acute heart failure. Stages (degrees of severity) of acute heart failure.
- 3. Acute left ventricle insufficiency: clinical picture, diagnostics, and treatment.
- 4. Acute right ventricle insufficiency: clinical picture, diagnostics, and treatment.
- 5. Chronic heart failure: etiology, classification in children.
- 6. Treatment of chronic heart failure.
- 7. Tachyarhythmias in children. Emergency help.
- 8. Bradyarhythmias in children. Emergency help.

TOPICS FOR REPORTS:

- 1. Prolonged QT interval syndrome.
- 2. WPW-syndrome.

LESSON 3. HYPERTHERMIC AND CONVULSIVE SYNDROME IN CHILDREN

CONTROL QUESTIONS:

- 1. Fever in children: etiology and pathogenesis.
- 2. Classification of fever.
- 3. Fever: differential diagnosis.
- 4. Hyperthermic syndrome: definition.
- 5. Emergency help algorithm in hyperthermia in children.
- 6. Convulsive syndrome in children: etiology, differential diagnosis.
- 7. Emergency help algorithm in convulsive syndrome.

TOPICS FOR REPORTS:

1. Diseases, associated with subfebrile body temperature in children.

LESSON 4. ACUTE KIDNEY INJURY AND CHRONIC KIDNEY DISEASE

CONTROL QUESTIONS:

- 1. Acute kidney injury: definition, etiology. Classification.
- 2. Acute renal failure: clinical picture, laboratory findings, and treatment principles.
- 3. Indications to the emergency (peritoneal and hemodialysis) dialysis in acute kidney injury.
- 4. Chronic kidney disease: definition, etiology, classification.
- 5. Clinical picture, diagnostics, therapy principles of the chronic kidney disease.
- 6. Tubulointersticial nephritis in children: etiology, pathogenesis, clinical picture, diagnostics, treatment principles.

TOPICS FOR REPORTS:

1. Diseases, associated with subfebrile body temperature in children.

LESSON 5. NEPHROTIC SYNDROME

CONTROL QUESTIONS:

- 1. Physiology of urinary system.
- 2. Urinary syndrome: types and diagnostic value.
- 3. Proteinuria: definition and types.
- 4. Nephrotic syndrome: definition and etiology.
- 5. Classification of nephrotic syndrome according to severity degrees and clinical course.
- 6. Clinical picture of the nephrotic syndrome: pathogenesis of different symptoms.
- 7. Laboratory and instrumental findings in nephrotic syndrome.
- 8. Hematuric syndrome in children: etiology, diagnostics, treatment.
- 9. Treatment principles of nephrotic syndrome.

LESSON 6. HEMORRHAGIC SYNDROME IN CHILDREN

CONTROL QUESTIONS:

- 1. Physiology of hemostasis. Mechanisms of blood coagulation.
- 2. Clinical and laboratory evaluation of primary and secondary hemostasis.
- 3. Hemorrhagic diathesis: definition and classification. Main types of the hemorrhagic rush.
- 4. Thrombocytopenia in children: etiology, pathogenesis, classification. Idiopathic thrombocytopenic purpura.
- 5. Hemophilia in children: pathogenesis, classification, clinical picture, treatment principles.
- 6. Hemorrhagic vasculitis: etiology, pathogenesis, clinical picture, diagnostics, therapy.

TOPICS FOR REPORTS:

1. von Willebrand disease.

LESSON 7. LEUKEMIA: DIFFERENTIAL DIAGNOSTICS

CONTROL QUESTIONS:

- 1. Age features of blood in children.
- 2. Diagnostic value of changes of indexes in blood leucocytic formula.
- 3. Leukemia: definition, risk factors.
- 4. Lymph proliferative syndrome in leukemia: differential diagnosis.
- 5. Anemic syndrome in leukemia: differential diagnosis.
- 6. Differential diagnosis of hemorrhagic syndrome in children.
- 7. Intoxication syndrome: etiology, ways of pathogenesis, differential diagnosis.
- 8. Common principles of the leukemia treatment.

LESSON 8. ABDOMINAL PAIN SYNDROME: DIFFERENTIAL DIAGNOSIS

CONTROL QUESTIONS:

- 1. Abdominal syndrome in children. Parietal and visceral pain.
- 2. Abdominal pain reasons depend on the location.
- 3. Etiology of abdominal pain depends on age of a child.
- 4. Abdominal pain features in stomach and duodenum diseases.
- 5. Features of pain in diseases of pancreas.
- 6. Acute cholecystitis as a reason of abdominal pain syndrome.
- 7. Indications for Surgeon consultation.
- 8. Tactics in abdominal syndrome in children.

TOPICS FOR REPORTS:

1. Chronic inflammatory bowel diseases in children.

LESSON 9.

GASTROINTESTINAL TRACT DISORDERS IN HELMINTHIC DISEASES IN CHILDREN

CONTROL QUESTIONS:

- 1. Helminthic diseases: definition, classification.
- 2. Gallbladder disorders in helminthic diseases.
- 3. Jaundice in children: etiology, pathogenesis depends on etiological agent.
- 4. Diarrhea in children: etiology, classification, therapeutical tactics.
- 5. Constipations in children: etiology, treatment.
- 6. Bowel disorders in helminthic diseases.

TOPICS FOR REPORTS:

- 1. Ascariosis in children.
- 2. Enterobiosis in children.
- 3. Lambliosis in children.

LESSON 10.

DIFFERENTIAL DIAGNOSIS OF COMA. ACUTE AND CHRONIC ADRENAL GLAND INSUFFICIENCY IN CHILDREN

CONTROL QUESTIONS:

- 1. Coma: definition.
- 2. Stages of coma development (Glasgo Coma Scale for children).
- 3. Main types of coma in children. Clinical symptoms and diagnostics.
- 4. Hyperglycemic coma: pathogenesis and diagnostics.
- 5. Hypoglycemic coma: pathogenesis and diagnostics.
- 6. Acute adrenal gland insufficiency: etiology, clinical picture, and diagnostics.
- 7. Chronic adrenal gland insufficiency: etiology, clinical picture, and diagnostics.
- 8. Treatment of adrenal gland insufficiency.

LESSON 11.

SEPSIS. TOXICOSES IN EARLY AGE CHILDREN. INFECTIOUS AND NOXIC SHOCK.

CONTROL QUESTIONS:

- 1. Systemic inflammatory response syndrome: definition, diagnostic criteria.
- 2. Sepsis: definition, etiology, risk factors in children.
- 3. Clinical picture of sepsis.
- 4. Organs' dysfunction criteria.
- 5. Laboratory tests, using for sepsis diagnostics.
- 6. Indications for instrumental methods of investigation (CT, MRI, X-Ray).
- 7. Infectious and toxic shock: definition, diagnostic criteria.
- 8. Toxicosis: definition and types of toxicoses.

TOPICS FOR REPORTS:

- 1. Intestinal toxicosis with exicosis.
- 2. Neurotoxicosis.