

# Tasks and questions for practical lessons

## 5-th year (9<sup>th</sup> semester)

### Lesson 1. **Heart failure in children. Cardiogenic shock.**

#### Questions:

- 1) Heart failure: definition, pathophysiology.
- 2) Clinical manifestations of heart failure.
- 3) Etiology of heart failure depend of age.
- 4) Diagnosis and classification of heart failure.
- 5) Common principles of heart failure treatment.
- 6) Cardiogenic shock: etiology, clinical manifestations and treatment.

### Lesson 2. **Anatomico-physiological features (APF) of endocrine system in children. Sexual development evaluation. Hypothyrosis. Obesity.**

#### Questions:

- 1) APF of endocrine system in children.
- 2) Sexual development evaluation.
- 3) Obesity in children.
- 4) Congenital hypothyrosis. Diagnostics and treatment.

### Lesson 3. **Nephrology. Anatomico-physiological features of the urinary system in children. Infectious and inflammatory diseases of kidney.**

#### Questions:

- 1) Anatomy of the glomerulus.
- 2) Glomerular filtration.
- 3) Anatomico-physiological features of the urinary system in children.
- 4) Urinary tract infections: definition, etiology, clinical manifestations, diagnostics and treatment.
- 5) Pyelonephritis: definition, predisposing factors, classification, clinical manifestations, complications, and diagnostics.
- 6) Treatment of pyelonephritis.

Lesson 4. **Glomerulonephritis. Acute and chronic renal failure.**

**Questions:**

- 1) Hematuric syndrome in children.
- 2) Glomerulonephritis: definition, etiology, classification.
- 3) Pathogenesis of different syndromes of glomerulonephritis.
- 4) Clinical signs depend on pathogenesis.
- 5) Treatment principles.
- 6) Acute renal failure in children: definition, etiology, clinical features, treatment.
- 7) Chronic renal failure: definition, etiology, classification, clinical features, treatment.

Lesson 5. **Gastroenterology. Chronic diseases of stomach and duodenum. Differential diagnosis of abdominal pain syndrome in children.**

**Questions:**

- 1) Major symptoms and signs of digestive tract disorders.
- 2) Causes of gastrointestinal symptoms in children.
- 3) Dysphagia, Regurgitation, Vomiting.
- 4) Causes of gastrointestinal obstruction.
- 5) Abdominal pain. Differential diagnosis of abdominal pain syndrome in children.
- 6) Gastritis, gastroduodenitis: definition, etiology, classification, pathogenesis.
- 7) Clinical manifestations, diagnostics and treatment of gastroduodenitis in children.

Lesson 6. **Diseases of biliary tract and pancreas in children.**

**Questions:**

- 1) Classification of biliary tract diseases.
- 2) Bile ducts dyskinesia: etiology, classification, clinical signs.
- 3) Diagnostics and treatment of bile ducts dyskinesia.
- 4) Chronic pancreatitis: etiology, pathogenesis, clinical manifestations.
- 5) Diagnostics and treatment principles of chronic pancreatitis.

Lesson 7. **Anatomico-physiological features in newborns. Child care. Feeding.**

**Questions:**

- 1) Definition: full-term and low-birth-weight child.
- 2) APF of mature child.
- 3) Maturity of newborn.
- 4) Feeding of low-birth-weight child.
- 5) Border-line conditions.
- 6) Morphological and functional maturity.
- 7) Newborn care.

**Lesson 8. Hemolytic newborn disease. Respiratory disorders in newborns.**

**Questions:**

- 1) Etiology of hemolytic newborn disease.
- 2) Classification.
- 3) Diagnostics.
- 4) Treatment principles.
- 5) Risk factors and etiology of respiratory disorders in newborns.
- 6) Respiratory distress syndrome of I type.
- 7) Respiratory distress syndrome of II type.

**Lesson 9. Pyoinflammatory diseases in newborns.**

**Questions:**

- 1) Classification of local forms of pyoinflammatory diseases.
- 2) Treatment and prevention principles.
- 3) Neonatal sepsis.
- 4) Risk factors of neonatal sepsis.
- 5) Classification.
- 6) Diagnostic criteria of systemic inflammatory response syndrome and neonatal sepsis.
- 7) Treatment principles.