

## CLASS №1

### ACUTE RESPIRATORY DISEASES IN CHILDREN CONTROL QUESTIONS

1. Pneumonia. Classification. Diagnostic criteria.
2. Complications of pneumonia.
3. Treatment of pneumonia and its complications in children. Indications for hospitalization.
4. Differential diagnosis of the upper and lower airway obstructions.
5. Croup. Causes. Clinical presentation. Treatment.
6. Epiglottitis. Causes. Symptoms. Treatment.
7. Lower airway obstruction and wheezing syndrome (bronchiolitis, acute asthma, gastroesophageal reflux disease etc.). Clinical presentation. Treatment.
8. Foreign body aspiration. Diagnostics. Emergency help.

### REPORTS

1. Acute respiratory distress syndrome.
2. Antibiotics in pediatric practice.
3. Respiratory insufficiency.

### RECOMMENDED LITERATURE

#### Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
3. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students with English medium of instruction [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
4. Pediatrics: Manual for students of the Faculty of Foreign Students / N.S. Paramonova, V.A. Zhemoytiak, P.R. Gorbachevsky. – Grodno: GrSMU, 2010. – 264 p.

#### Additional sources

1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

## CLASS №2

### HEART FAILURE IN CHILDREN. HEART RHYTHM DISORDERS

#### CONTROL QUESTIONS

1. Acute and chronic congestive heart failure. Definition. Pathophysiology.
2. Causes of over circulation heart failure and pump heart failure in infants and children.
3. Right-sided and left-sided congestive heart failure. Systolic and diastolic ventricular dysfunctions. Clinical manifestations.
4. NYHA and Ross classifications for pediatric heart failure.
5. Investigations in heart failure: chest radiography, electrocardiography, echocardiography, MRI, endomyocardial biopsy, cardiac catheterization.
6. Laboratory biomarkers of heart failure.
7. Therapeutic approach in pediatric heart failure.
8. Tachyarrhythmias in infants and children. Acute management of sinus, supraventricular and ventricular tachycardias.
9. Follow-up after the arrhythmic event. Long term (chronic) management of tachyarrhythmias.
10. Bradycardia in infants and children. Emergency help and long term management.

#### REPORTS

1. Long Q-T syndromes.
2. Wolff-Parkinson-White (WPW) syndrome.

#### RECOMMENDED LITERATURE

##### Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbutis, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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##### Additional sources

1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

## CLASS №3

# CONVULSIONS AND SEIZURES IN CHILDREN. FEVER IN CHILDREN

### CONTROL QUESTIONS

1. Convulsions and seizures in children. Definitions. Causes. Differential diagnoses.
2. Acute management of seizures. Post seizure care.
3. Convulsive status epilepticus. Definition. Treatment.
4. Fever. Definition.
5. Causes of fever. Differential diagnoses.
6. Symptoms of fever in infants and children.
7. Management of pediatric patients with fever.

### REPORTS

1. Subfebrile fever in children.
2. Medication used in seizures.

### RECOMMENDED LITERATURE

#### Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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#### Additional sources

1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №4  
**ACUTE RENAL INJURY AND CHRONIC KIDNEY DISEASE**

**CONTROL QUESTIONS**

1. Acute kidney injury / acute renal failure in children. Definition. Types. Causes.
2. Acute kidney injury in children. Classifications (p-RIFLE, AKIN, KDIGO).
3. Acute kidney injury in children. Clinical features. Laboratory biomarkers.
4. Management of acute kidney injury in children. Prognosis.
5. Chronic kidney disease in children. Definition. Etiology. Classification.
6. Chronic kidney disease in children. Clinical features of CKD. Diagnosis.
7. Chronic kidney disease in children. Treatment.

**REPORTS**

1. Hemolytic uremic syndrome.
2. Renal replacement therapy.

**RECOMMENDED LITERATURE**

**Main sources**

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbutis, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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4. Pediatrics: Manual for students of the Faculty of Foreign Students / N.S. Paramonova, V.A. Zhemoiytiak, P.R. Gorbachevsky. – Grodno: GrSMU, 2010. – 264 p.

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1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №5  
**NEPHROTIC SYNDROME IN CHILDREN**

**CONTROL QUESTIONS**

1. Proteinuria. Definition. Types.
2. Nephrotic syndrome. Definition. Pathogenesis.
3. Nephrotic syndrome. Classification. Morphological variants.
4. Minimal change nephrotic syndrome in children.
5. Nephrotic syndrome with different morphological changes. Differential diagnoses.
6. Complications of nephrotic syndrome.
7. Treatment and outcome of nephrotic syndrome.

**REPORTS**

1. IgA-nephropathy.
2. Congenital nephrotic syndrome.

**RECOMMENDED LITERATURE**

**Main sources**

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbutis, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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4. Pediatrics: Manual for students of the Faculty of Foreign Students / N.S. Paramonova, V.A. Zhemoiytiak, P.R. Gorbachevsky. – Grodno: GrSMU, 2010. – 264 p.

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1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №6  
**HEMORRHAGIC SYNDROME. DIFFERENTIAL DIAGNOSIS**

**CONTROL QUESTIONS**

1. Primary and secondary hemostasis. Steps (mechanisms).
2. Laboratory evaluation of hemostasis.
3. Types of hemorrhagic rash.
4. Idiopathic thrombocytopenic purpura. Etiopathogenesis. Clinical presentation.
5. Idiopathic thrombocytopenic purpura. Diagnosis Treatment.
6. Henoch-Schönlein purpura. Etiopathogenesis. Clinical presentation.
7. Henoch-Schönlein purpura. Diagnosis. Treatment.
8. Hemophilia in children. Etiology. Clinical presentation. Treatment.
9. Differential diagnosis of hemorrhagic diseases with acute leukemia in children.

**REPORTS**

1. Von Willebrand disease.
2. Disseminated intravascular coagulation.

**RECOMMENDED LITERATURE**

**Main sources**

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
3. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students with English medium of instruction [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
4. Pediatrics: Manual for students of the Faculty of Foreign Students / N.S. Paramonova, V.A. Zhemoityak, P.R. Gorbachevsky. – Grodno: GrSMU, 2010. – 264 p.

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1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №7  
**LEUKEMIA IN CHILDREN**

**CONTROL QUESTIONS**

1. Leukemia. Definition. Risk factors.
2. Leukemia. Classification.
3. Leukemia. Clinical manifestations.
4. Tests to look for leukemia in children.
5. Acute lymphoblastic leukemia.
6. Chronic myelogenous leukemia.
7. Treatment strategy for leukemia. Prognosis.

**REPORTS**

1. Bone marrow/stem cell transplantation.
2. Chemotherapy for childhood leukemia.

**RECOMMENDED LITERATURE**

**Main sources**

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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4. Pediatrics: Manual for students of the Faculty of Foreign Students / N.S. Paramonova, V.A. Zhemoytiak, P.R. Gorbachevsky. – Grodno: GrSMU, 2010. – 264 p.

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1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

## CLASS №8

### ABDOMINAL PAIN SYNDROME. DIFFERENTIAL DIAGNOSIS

#### CONTROL QUESTIONS

1. Pathophysiological mechanisms of pain. Somatogenic pain and psychogenic pain.
2. Abdominal pain syndrome. Organic and functional, acute and chronic pain.
3. Abdominal pain syndrome in children. Causes. Differential diagnosis.
4. Indications for surgical consultation.
5. Management of abdominal pain in children.

#### REPORTS

1. Inflammatory bowel disease in children.
2. Acute abdomen. Signs and symptoms.

#### RECOMMENDED LITERATURE

##### Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
3. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students with English medium of instruction [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
4. Pediatrics: Manual for students of the Faculty of Foreign Students / N.S. Paramonova, V.A. Zhemoytiak, P.R. Gorbachevsky. – Grodno: GrSMU, 2010. – 264 p.

##### Additional sources

1. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
2. Педиатрия: учебное пособие для студентов по специальности 1-79 01 01 Лечебное дело / С.А. Ляликов [и др.]; под общ. ред. С.А. Ляликова – Гродно: ГрГМУ, 2011. – С. 400.
3. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6<sup>th</sup> Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №9  
**HELMINTHIASIS. PRACTICAL SKILLS**

**CONTROL QUESTIONS**

1. Helminthiasis. Classification.
2. Clinical manifestations of helminthiasis. General principles of diagnosis.
3. Toxocariasis.
4. Ascariasis.
5. Anthelmintic drugs.
6. Practical skills training.

**REPORTS**

1. Giardiasis in children.
2. Echinococcosis.

**RECOMMENDED LITERATURE**

**Main sources**

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbutis, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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## CLASS №10

# PEDIATRIC COMA. DIFFERENTIAL DIAGNOSIS. ACUTE AND CHRONIC ADRENAL INSUFFICIENCY IN CHILDREN

## CONTROL QUESTIONS

1. Coma. Definition.
2. Stages of coma. Glasgow coma scale.
3. Pediatric coma. Causes of coma in children. Evaluation of the comatose child.
4. Management of a child with coma. Prognosis.
5. Acute adrenal insufficiency. Causes. Clinical picture. Diagnosis.
6. Chronic adrenal insufficiency. Causes. Clinical picture. Diagnosis.
7. Treatment of adrenal insufficiency.

## REPORTS

1. Clinical and biological death.

## RECOMMENDED LITERATURE

### Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
2. Pediatrics: manual for the students of the Faculty of Foreign Students / T.I. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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CLASS №11  
**PEDIATRIC SEPSIS AND SEPTIC SHOCK**

**CONTROL QUESTIONS**

1. Systemic inflammatory response syndrome and sepsis. Updated key definitions and concepts according to «Sepsis-3».
2. Etiology and risk factors for pediatric sepsis.
3. Clinical features. Physical examination.
4. Criteria for organ dysfunction.
5. Laboratory tests for diagnosis of sepsis.
6. Indications for specific radiological evaluation.
7. Septic shock. Definition. Criteria for diagnosis.
8. Treatment of sepsis and septic shock.

**REPORTS**

1. Four categories of shock and their respective causes.
2. First line and reserve antibiotics in pediatric practice.

**RECOMMENDED LITERATURE**

**Main sources**

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 18 th ed. – Philadelphia, 2007. – 3147 p.
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