

SPRING SEMESTER
CLASS №1
CONGENITAL HEART DISEASES

CONTROL QUESTIONS

1. The fetal to neonatal circulatory transition. The timing of fetal communications closure (functional and anatomic closure).
2. Age-related features of the cardiovascular system.
3. Etiology of congenital heart diseases.
4. Classification of congenital heart diseases.
5. Congenital heart diseases with the left-to-right shunt lesions (acyanotic):
 - Patent ductus arteriosus (Botallo`s duct)
 - Ventricular septal defect
 - Atrial septal defect
6. Congenital heart diseases with the right-to-left shunt lesions (with cyanosis):
 - Tetralogy of Fallot
7. Congenital heart diseases with the obstructive lesions:
 - Aortic stenosis
 - Coarctation of the aorta
8. Congenital heart diseases. Diagnosis. General principles of treatment. Management.

REPORTS

1. Features of electrocardiography in children of various ages.
2. Emergency care for children with paroxysmal hypercyanotic attack.
3. Transposition of the great vessels.
4. Disturbances of rate and rhythm of the heart.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. Pediatrics: course of lectures: Manual for the Medical Faculty of Foreign Students [CD-ROM] / Н.А. Максимович [и др.] - Гродно: ГрГМУ, 2015.
3. Pediatrics: manual for the students of the Faculty of Foreign Students / Т.І. Rovbuts, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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.
5. Paramonova, N.S. Introduction to pediatrics [Текст]: учеб. пособие : допущ. М-вом образования Респ. Беларусь для студ. учреждений высш. образования по мед. специальностям / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, 2012. - 359 p.

Additional sources

1. Paramonova, N. S. Introduction to pediatrics [Электронный ресурс] : учеб. пособие: допущ. М-вом образования Респ. Беларусь для студ. учреждений высш. образования по мед. специальностям / Н.С. Парамонова, В.А. Жемойтяк, П.Р. Горбачевский, 2012.
2. Детские болезни: учебник / под ред. Н.П. Шабалова – 6-е изд.: в двух томах. – СПб.: Питер, 2007.
3. Rudolph's pediatrics/ ed.-in-chief Colin D. Rudolph, ed.: Abraham M. Rudolph [et al.], 2011. – L.V. - P. 2488.
4. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6th Edition Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №2
**ACUTE RHEUMATIC FEVER IN CHILDREN. RHEUMATIC HEART
DISEASE**

CONTROL QUESTIONS

1. Acute rheumatic fever. Definition. Risk factors and etiology. Pathogenesis
2. Acute rheumatic fever. Classification.
3. Acute rheumatic fever. Diagnostic criteria.
4. Rheumatic chorea in children (Sydenham chorea). Definition. Clinical manifestations.
5. Acute rheumatic fever. Treatment.
6. Acute rheumatic fever. Primary and secondary prevention.
7. Rheumatic heart disease. Definition. Clinical manifestations.
8. Patient supervision. Writing a case report.

REPORTS

1. Mitral stenosis and mitral insufficiency.
2. Aortic insufficiency and aortic stenosis.
3. Juvenile rheumatoid arthritis.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. 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.
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CLASS №3
HEART FAILURE IN CHILDREN

CONTROL QUESTIONS

1. Heart failure. Definition. Types.
2. Heart failure. Etiopathogenesis.
3. Classifications of pediatric heart failure.
4. Left-sided congestive heart failure. Clinical manifestations. Treatment.
5. Right-sided congestive heart failure. Clinical manifestations. Treatment.
6. Diagnostic approach to heart failure (investigations and laboratory biomarkers).
7. Management of acute and chronic heart failure in children.

REPORTS

1. Nonreumatic myocarditis.
2. Endocardial fibroelastosis.
3. Cardiomyopathy.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. 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.
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4. Ghai Essential Pediatrics / O. P. Ghai [et al.]; ed. by Dr O. P. Ghai – 6th Edition
Revised & Reprinted. – Delhi, 2005. – P. 719.

CLASS №4
STOMACH AND DUODENAL DISEASES IN CHILDREN

CONTROL QUESTIONS

1. Age-related features of the digestive system in children.
2. Etiology and pathogenesis of chronic diseases of stomach and duodenum in children.
3. Classification of chronic gastritis.
4. Classification of peptic ulcer disease.
5. Clinical manifestations of gastrointestinal pathology.
6. Diagnosis of gastrointestinal diseases in children.
7. Principles of treatment of chronic diseases of the stomach and duodenum. Follow-up.

REPORTS

1. Differential diagnosis of abdominal pain syndrome in children.
2. Diagnosis of Helicobacter pylori infection.
3. Helminthiasis in children (ascariasis, enterobiosis, trichuriasis).

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. 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.
3. Pediatrics: manual for the students of the Faculty of Foreign Students / Т.І. Rovbut, N.M. Tsikhan, N.A. Maximovich. – Grodno: GrSMU, 2013. – 348 p.
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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CLASS №5
BILIARY TRACT DISEASES IN CHILDREN

CONTROL QUESTIONS

1. Classification of biliary system diseases.
2. Functional gallbladder disorder (biliary dyskinesia) and sphincter of Oddi dysfunction. Clinical manifestation.
3. Diagnosis of functional biliary disorders in children.
4. Treatment of functional biliary disorders in children.
5. Cholelithiasis in children. Etiopathogenesis. Classification.
6. Clinical manifestation of cholelithiasis.
7. Diagnosis and treatment of cholelithiasis.

REPORTS

1. Cholecystitis in children.
2. Chronic pancreatitis.
3. Choleric agents (promoting bile secretion) and cholagogues (promoting bile discharge).
4. Digestive enzyme supplements and pancreatic enzyme replacement therapy.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. 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.
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CLASS №6
URINARY TRACT INFECTION IN CHILDREN

CONTROL QUESTIONS

1. Age-related features of the kidneys and urinary tract in children.
2. Urinary tract infections. Definition.
3. Pyelonephritis. Etiology. Pathogenesis.
4. Pyelonephritis. Classification.
5. Pyelonephritis. Clinical manifestations in infants and toddlers.
6. Pyelonephritis. Clinical manifestations in older children.
7. Pyelonephritis. Diagnostic criteria and diagnosis of pyelonephritis.
8. Pyelonephritis. Treatment. Rehabilitation.

REPORTS

1. Kidney function test.
2. Cystitis.
3. Oxalate nephropathy.
1. Interstitial nephritis.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
2. 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.
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CLASS №7
GLOMERULONEPHRITIS IN CHILDREN

CONTROL QUESTIONS

1. Glomerulonephritis. Definition. Clinical classification.
2. Acute poststreptococcal glomerulonephritis. Etiology. Pathogenesis. Clinical manifestations.
3. Acute poststreptococcal glomerulonephritis. Diagnostics. Differential diagnosis. Treatment.
4. Chronic glomerulonephritis. Definition. Morphological/histologic types.
5. Nephrotic syndrome. Definition. Primary and secondary nephrotic syndrome.
6. Minimal change nephrotic syndrome in children. Clinical manifestations. Diagnostics. Differential diagnosis. Treatment.
7. Chronic glomerulonephritis with nephritic syndrome (with hematuria). Differential diagnosis.
8. Chronic glomerulonephritis. Approach to treatment.

REPORTS

1. Rapidly progressive (crescentic) glomerulonephritis.
2. Congenital nephrotic syndrome.

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
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CLASS №8
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).
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.
8. **Practical skills training.**

REPORTS

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

RECOMMENDED LITERATURE

Main sources

1. Nelson textbook of pediatrics / A. Nelson [et al.]; ed. by Robert M. Kliegman. - 19 th ed. – Philadelphia, 2011. – 3147 p.
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