

Clinic of Children and Adolescents JFM UC and UHM, Kollárova 2, Martin
Paediatric propedeutics 4th class – international students

Exam questions:

Round A:

1. Age categories of the childhood, their specificities and characteristics
2. Growth and development assessment in childhood
3. Psychomotor development of the child and its evaluation
4. Nutrition of the toddlers and older children - energetic and biological aspects
5. Breast feeding – physiology, contraindications, colostrum, transitional and mature milk Constitution of the human milk – nutritional and immunological aspects
6. Nutrition of the infants in the first year of life. Artificial milk formulas – characteristics, classification, indications. Differences between human and cow milk – quantitative and qualitative
7. Vaccination – national vaccination schedules
8. Vaccination – indications, contraindications, immunology of the vaccination, classification and composition of the vaccines
9. Paediatric history – general rules and its specificities in particular age categories. Physical examination in paediatrics – general rules, *status presens generalis et localis*. The specificities of the physical examination of the infants.
10. Classification of the new-borns and their assessment after the birth. New-born with low birth weight
11. First nursing of the new-born. First examination of the new-born. Screening programs in neonatology
12. Physiological characteristics of the cardiovascular system in the neonatal period
Premature new-born. Heart auscultation and cardiac murmurs
13. Birth (peripartal) trauma.
14. History and physical examination of the cardiovascular system. Clinical symptoms and findings of the cardiovascular disorders in children. Imagine techniques in paediatric cardiology – X-ray, echocardiography, angiocardiography. Blood pressure measurement technique, its evaluation in the childhood and percentile graphs. Electrocardiography – the evaluations and the physiological changes of ECG curve in different age categories
15. Anatomical and physiological specificities of the respiratory tract in children. Clinical symptoms and findings in the respiratory diseases. Physical examination of the respiratory tract. Imagine techniques of the respiratory tract - X-ray and the principles of the evaluation of the chest X-ray. Lung function testing, inflammometry.

Round B:

1. The development of the immune system in the childhood, symptoms of immune system disorders. Diagnostic approaches and tests in the paediatric immunology. Basics of clinical and laboratory examination in allergology, prevention of allergic diseases in childhood.
2. Investigation methods in haematology: medical history and physical examination, examination of blood picture. Normal values and the dynamics of the changes of haemoglobin and blood elements according to the age. Haemostasis.
3. Anatomic and physiological specificities of the gastrointestinal tract in children. History and physical examination of the gastrointestinal tract. Clinical manifestations of the gastrointestinal diseases. Laboratory investigations in gastrointestinal disorders, analysis of the faeces and its significance in the diagnosis of gastrointestinal disorders. Examination of the liver functions. Imaging techniques of the gastrointestinal tract
4. Anatomic and functional characteristics of the uropoietic tract in children. Clinical manifestations of the urinary tract diseases in children. Functional examination of the uropoietic system. Imaging techniques of the kidney and urinary tract. Laboratory examination of the urine and the techniques of its sampling in children
5. Metabolism of the water and electrolytes and its disturbances in children.
6. Acid base homeostasis and its disturbances.
7. Clinical findings and investigation methods in the disorders of adenohipophysis. Clinical symptoms of the adrenal gland diseases, Clinical symptoms of the thyroidal diseases. Laboratory examination. Imaging techniques.
8. Complex laboratory and clinical examination of the child with diabetes mellitus.
9. Neurological examination of the new-born, infants and older child. Examination of the nervous system diseases, Cerebrospinal fluid
10. Clinical and laboratory findings of the rheumatic diseases. Clinical and laboratory findings of the muscular disorders. Examination of the child with the disease of locomotor system
11. Injections and intravenous accesses in children - techniques, indications, specificities. Infusions - the principles of the intravenous application of the medicaments, transfusions and exchange transfusion. Punctures and biopsies in childhood. Gastric lavage
12. Principles of the investigation in the clinical genetics
13. Specificities of the thermoregulation in the new-borns and children. Fever in childhood and its treatment.
14. Specificities of pharmacotherapy in childhood. Pain in childhood and its treatment.
15. Basics of cardiopulmonary resuscitation in new-borns and children.