

<b>SYLABUS PAEDIATRICS 6. grade</b>
<b>General paediatrics</b>
Seizures in childhood (febrile seizures epilepsy, seizures in other diseases)
Principles of cardiopulmonary resuscitation
Jaundice in the newborn
Lymphadenopathy - differential diagnosis
Psychomotor development of the child
Screening tests in paediatrics - prenatal, neonatal, in the pre-school and school age
Diarrhoea (acute and chronic) - differential diagnosis
Disturbances of consciousness (classification, evaluation, differential diagnosis)
Abdominal pain - differential diagnosis
Fluid therapy
Examination of the newborn after delivery (paediatric, neurological)
Acute dyspnoea
Fever, hyperpyrexia - aetiology, care fare the febrile child
Vaccination (basic principles, vaccines, compulsory and optional vaccinations, inoculation calendar, contraindications, complications, anti-vaccination movement)
Splenomegaly - differential diagnosis
Vomiting - differential diagnosis
Cough (aetiology, differential diagnosis, treatment)
Headache
Cyanosis - differential diagnosis
Formula feeding in infancy
Tonsillitis and its complications
Physiology and pathology of puberty
Disturbances of acid-base balance
Fever of unknown origin
Jaundice - differential diagnosis
Disorders of sodium and potassium metabolism, dehydration
Stridor - differential diagnosis
Oedema - aetiology and differential diagnosis
Central nervous system infections (meningitis, encephalitis, cerebral abscess)
Foreign bodies in the airways
Postnatal adaptation of the newborn
Enuresis, incontinence
Shock (anaphylactic, haemorrhagic) - clinical picture, diagnosis and therapy
Sepsis
Gastrointestinal bleeding (differential diagnosis)
Hepatomegaly – differential diagnosis
Malabsorption syndrome
Constipation, encopresis
Growth and growth disorders (growth physiology, intrauterine growth retardation, short stature, tall stature)
Disorders of calcium and phosphorus metabolism (rachitis, tetanus)
Polyuria and polydipsia
Hypoglycemia
<b>Specialized pediatrics 1</b>
Arthritis in childhood
Systemic lupus erythematosus and juvenile dermatomyositis
Most common systemic vasculitis in childhood (Henoch-Schönlein purpura, Kawasaki's disease, Takayasu's arteritis)
Focal bone disorders (bone tumors, osteomyelitis) - differential diagnosis
Congenital defects of the respiratory tract
Obstruction of the lower airways (obstructive bronchitis, bronchiolitis)

Pneumonia and bronchopneumonia
Atelectasis, emphysema, pneumothorax
Upper respiratory tract and ear disorders (inflammatory diseases, adenoid vegetations, sinobronchial syndrome, otitis)
Cystic fibrosis
Interstitial lung diseases
The preterm newborn (definition, clinical picture, most common complications)
Fetal and neonatal infections
Urgent situations in the neonatal age
Asphyxia syndrome in the newborn
Bleeding conditions in neonatal age
Delivery trauma
Vomiting in newborns
Acute renal insufficiency
Tubulopathies
Chronic renal insufficiency
Adrenal diseases (congenital adrenal hyperplasia, Addison's disease, Cushing's disease/syndrome, hyper/hypoaldosteronism, pheochromocytoma)
Acute and chronic respiratory insufficiency
Congenital developmental anomalies of the uropoetic system
Nephrotic syndrome
Hematuria and nephritic syndrome
Urinary tract infections (cystitis, pyelonephritis), obstructive uropathy
Inborn errors of lipid metabolism
Lysosomal storage diseases
Inborn errors of carbohydrate metabolism
Inborn errors of amino-acid metabolism
Congenital heart diseases with left-to-right shunt
Cyanotic heart diseases
Inflammatory heart diseases (pericarditis, myocarditis, endocarditis) and cardiomyopathy
Cardiac outflow obstruction (without a shunt)
Acute and chronic heart failure
Cardiac arrhythmias
Disorders of the innate (non-specific) immune system (immunodeficiency, auto-inflammatory diseases)
Bronchial asthma - diagnosis and treatment
Disorders of the adaptive (specific) immune system
Diseases of the biliary tract and pancreas
Hepatitis and liver failure
Congenital disorders of the gastrointestinal tract
Inflammatory bowel disease
Diseases of the thyroid gland
Disorders of sexual development
Obesity, metabolic syndrome
Diabetes mellitus in children
Disorders of parathyroid glands
Disorders of adenohypophysis
<b>Specialized paediatrics 2</b>
Anaemia - classification, diagnosis and treatment
Physiologic changes in blood count during childhood
Breastfeeding and its importance
Lumbar puncture and cerebrospinal fluid examination
Basic demographic concepts in pediatrics (incidence, prevalence, morbidity, mortality, natality)
Non-inflammatory orthopedic skeletal diseases (developmental dysplasia of hip joints, flat-foot, scoliosis, aseptic necrosis, hypermobile syndrome)
Most common solid tumors

Leukemia in childhood
Malignant lymphoma (Hodgkin's disease, non-Hodgkin's lymphoma)
Muscular dystrophy
Diagnostic methods in disorders of the kidney and urinary tract
Arterial hypertension (etiology, differential diagnosis, treatment)
Heart murmurs (functional and organic), ECG changes in childhood
Infectious exanthemas (morbilli, scarlatina, rubella, varicella, exanthema subitum, erythema infectiosum)
Tuberculosis in children
Congenital and sexually transmitted infections in children (TORCH, syphilis, HIV, herpes, chronic hepatitis) - clinical picture, diagnosis, prevention, treatment
Parasitic diseases
Children's rights, child abuse and neglect syndrome
Principles of nutrition after the first year of life
Poisoning and burns
Intracranial hypertension syndrome (hydrocephalus, brain tumors, developmental anomalies of the brain and spinal cord)
Rational approach to antibiotic therapy
Treatment with glucocorticoids and its complications
Indications and risks of oxygen therapy
Invasive procedures in pediatrics - punctures, lavage, biopsy (technique, indications, complications - excluding lumbar puncture)
Behavioral disorders
Acute appendicitis and intestinal invagination
Skin disorders in newborns and children
The most common eye diseases in children (retinopathy of prematurity, refractive errors, inflammatory eye diseases)
The importance of vitamins in the nutrition of children
Trauma in children (specific features of childhood fractures, craniotrauma, polytrauma)
Infantile cerebral palsy
Drug reactions and drug allergy in childhood
Atopic dermatitis
Primary pediatric care - the work of the general pediatric practitioner (preventive and follow-up care)
Coagulopathies (hereditary and acquired - except neonatal age)
Disorders of white blood cells (leukopenia, leukocytosis)
Purpura (thrombocytopenia, thrombocytopathy, vasculopathy)
Transfusion – indications and complications
Thrombotic microangiopathy (haemolytic-uremic syndrome, thrombotic thrombocytopenic purpura, disseminated intravascular coagulopathy)
Macrophage activation syndrom/haemophagocytic lymphohistiocytosis
X-chromosome linked disorders
Chromosomal aberrations (numerical and structural - except X-linked)
Monogenic diseases with autosomal recessive inheritance
Diseases requiring diet therapy (food intolerance, food allergies, gastrointestinal tract disorders, metabolic diseases) and alternative diets
Failure to thrive in infants and toddlers
Eating disorders (anorexia, bulimia)