

MD PAEDIATRICS

Growth and development:

- Principles of growth and development
- Normal growth and development
- Sexual maturation and its disturbances
- Childhood and adolescence
- Failure to thrive and short stature

Neonatology

- Perinatal care
- Low birth weight
- Care in the labor room and resuscitation _
- Newborn feeding
- Prematurity
- Respiratory distress
- Common transient phenomena
- Infections
- Anemia and bleeding disorders
- Jaundice
- Neurologic disorders
- Renal disorders
- Understanding of perinatal medicine
- Thermoregulation and its disorders

Behavioral & Developmental disorders

- Rumination
- Pica
- Enuresis
- Encopresis
- Sleep disorders
- Habit disorders
- Breath holding spells
- Anxiety disorders
- Mood disorders - temper tantrums
- Attention deficit hyperactivity disorders
- Autism

Social pediatrics

- National health programs related to child health _ child abuse and neglect
- Child labor
- Adoption
- Disability and rehabilitation
- Rights of the child

- National policy of child health and population
- Juvenile delinquency

Genetics

- Principles of inheritance
- Pedigree drawing
- Chromosomal disorders
- Single gene disorders
- Multifactorial/polygenic disorders
- Genetic diagnosis
- Prenatal diagnosis

Nutrition

- Maternal nutritional disorder
- Nutrition for the low birth weight
- Breast feeding
- Infant feeding including vitamin and mineral deficiencies
- Complementary feeding
- Protein energy malnutrition
- Obesity
- Adolescent nutrition
- Parenteral and enteral nutrition
- Nutritional management of neonates and children
- In systemic illness like celiac disease, hepatobiliary disorders, nephrotic syndrome

Cardiovascular

- Congenital heart diseases - cyanotic and acyanotic
- Rheumatic fever and rheumatic heart disease
- Infective endocarditis
- Arrhythmias
- Disease of myocardium and pericardium
- Systemic hypertension
- Hyperlipidemia in children

Respiratory

- Congenital and acquired disorders of nose
- Infections of upper respiratory tract
- Obstructive sleep apnea
- Congenital anomalies of lower respiratory tract
- Foreign body in larynx, trachea & bronchus
- Trauma to larynx
- Neoplasm of larynx and trachea chronic
- Bronchitis
- Bronchiolitis
- Aspiration pneumonia
- GER

- Acute pneumonia
- Recurrent and interstitial pneumonia
- Suppurative lung diseases like bronchiectasia
- Atelectasis
- Lung cysts
- Emphysema and hyper-inflation
- Bronchial asthma
- Pulmonary edema
- Pleural effusion
- Pulmonary leaks
- Mediastinal mass

Gastrointestinal and liver disease

- Disease of mouth, oral cavity and tongue
- Disorders of deglutition and esophagus
- Peptic ulcer disease
- H. pylori infection
- Foreign body
- Congenital pyloric stenosis
- Intestinal obstruction
- Malabsorption syndrome
- Acute and chronic diarrhea
- Irritable bowel syndrome
- Inflammatory bowel diseases- ulcerative colitis and Crohn's disease
- Hirschsprung's disease
- Anorectal malformations
- Hepatitis
- Hepatic failure
- Chronic liver disease
- Wilson's disease
- Budd-Chiari syndrome
- Metabolic diseases of liver
- Cirrhosis and portal hypertension

Renal disorders

- Acute and chronic glomerulonephritis
- Nephrotic syndrome
- Hemolytic uremic syndrome
- Urinary tract infection
- VUR and renal scarring
- Renal tubular disorders diseases
- Congenital and hereditary renal disorders
- Renal and bladder stones
- Posterior urethral valves, hydronephrosis, voiding dysfunction
- Undescended testis
- Wilms tumor

Neurologic disorders

- Seizure and non-seizure paroxysmal events
- Epilepsy and epileptic syndromes
- Meningitis of childhood
- Brain abscess
- Coma
- Acute encephalitis and febrile encephalopathies
- Guillain-Barre syndrome
- Neurocysticercosis
- HIV encephalopathy
- SSPE
- Cerebral palsy
- Neurometabolic disorders
- Neurodegenerative disorders
- Neuromuscular disorders
- Mental retardation
- Learning disabilities
- Muscular dystrophies
- Acute flaccid paralysis and AFP surveillance
- Ataxias
- Movement disorders of childhood
- CNS tumors
- Malformations

Hematology & Oncology

- Deficiency anemias
- Hemolytic anemias
- Aplastic anemias
- Thrombocytopenia
- Hemostasis
- Blood component therapy
- Transfusion related infections
- Bone marrow transplant/stem cell transplant
- Acute and chronic leukemia
- Myelodysplastic syndrome
- Hodgkin disease
- Non-Hodgkin's lymphoma
- Neuroblastoma
- Hypercoagulable states

Endocrinology

- Hypopituitarism/hyperpituitarism
- Diabetes insipidus
- Pubertal disorders
- Hypo- and hyperthyroidism
- Adrenal insufficiency
- Cushing's syndrome

- Adrenogenital syndromes
- Diabetes mellitus
- Hypoglycemia
- Short stature
- Gonadal dysfunction and intersexuality
- Obesity

Infections

- Bacterial
- Viral
- Fungal
- Parasitic
- Rickettsial
- Mycoplasma
- Protozoal
- Tuberculosis
- Nosocomial
- HIV
- Control of epidemics and infection prevention
- Safe disposal of infective material

Emergency & Critical care

- Emergency care of shock & cardio-respiratory arrest
- Respiratory failure
- Acute renal failure
- Status epilepticus
- Acute severe asthma
- Fluid and electrolyte disturbances and its therapy
- Acid-base disturbances
- Poisoning
- Accidents
- Scorpion and snake bites

Immunology & Rheumatology

- Arthritis (acute and chronic)
- Connective tissue disorders
- Immuno-deficiency syndromes
- Kawasaki disease

ENT

- Acute and chronic otitis media
- Conductive/sensorineural deafness
- Post-diphtheritic palatal palsy
- Acute/chronic tonsillitis/adenoids
- Allergic rhinitis/sinusitis
- Foreign body

Skin Diseases

- Exanthematous illnesses
- Vascular lesions
- Pigment disorders
- Vesicobullous disorders
- Infections: pyogenic, viral, fungal and parasitic
- Stevens-Johnson syndrome
- Eczema
- Seborrheic dermatitis
- Drug rash
- Urticaria
- Alopecia
- Ichthyosis

Eye diseases

- Refraction and accommodation
- Partial/total loss of vision cataract
- Night blindness
- Chorioretinitis
- Strabismus
- Conjunctival and corneal disorders
- Retinopathy of prematurity
- Retinoblastoma
- Optic atrophy
- Palledema

Orthopedics

- Major congenital orthopedic deformities
- Bone and joint infections
- Common bone tumors