



Paediatrics

Paediatrics

Overview

Pediatrics is the branch of medicine that focuses on the integral diagnosis and management of illnesses that affect newborns, infants, young children, preteens, and adolescents until the age of 18 years. After birth, there is a constant change in the child's physiology as they grow. A pediatrician plays an important role in understanding and leveraging this knowledge to provide the best possible care. Pediatrics is referred to as "children's internal medicine," and this description is not far from the truth.

In this course, the student will be introduced to the main pathologies that effect every organ system in the pediatric population, along with introductory knowledge of adolescent medicine, neonatology, child development, pediatric oncology, and genetics. For optimal comprehension, the student is required to have a good understanding of human anatomy and physiology as well as internal medicine.

Children are especially susceptible to infectious diseases and congenital conditions, which could be brought about by genetic syndromes (e.g., ventricular septal defect in Down's syndrome). A general physician must be able to assess growth and development in children to ensure all milestones are being met and that they are not being subjected to conditions of abuse.

Thus, a solid grasp of the basic concepts of pediatrics can increase the likelihood of adequate intervention, either by the general practitioner or at a more specialized level after pertinent referral.

Topics

Pediatric Cardiology	18 Videos
Pediatric Pulmonology	19 Videos
Pediatric Gastroenterology	33 Videos
Pediatric Endocrinology	26 Videos
Pediatric Neurology	19 Videos
Pediatric Rheumatology and Orthopedics	14 Videos
Pediatric Nephrology and Urology	15 Videos
Pediatric Hematology	18 Videos
Pediatric Infectious Diseases	38 Videos
Pediatric Allergy and Immunology	05 Videos
Pediatric Dermatology	11 Videos
Adolescent Medicine	19 Videos
Neonatology (Newborn Medicine)	21 Videos
Child Development and Behavior	10 Videos
Pediatric Genetics	13 Videos
Pediatric Emergency Medicine	26 Videos
Pediatric Oncology	08 Videos
Pediatric Radiology	03 Videos

Pediatric Cardiology

- Diagnosis if a Baby is Blue and Hyperoxia Test
- Truncus Arteriosus and Transposition of the Great Vessels (TGV)
- Tricuspid Atresia
- Tetralogy of Fallot (TOF)
- Total Anomalous Pulmonary Venous Return (TAPVR)
- Hypoplastic Left Heart Syndrome (HLHS)
- Coarctation of the Aorta
- Hypertrophic Obstructive Cardiomyopathy (HOCM)
- Patent Ductus Arteriosus (PDA)
- Atrial Septal Defect (ASD)
- Ventricular Septal Defect (VSD)
- Infective Endocarditis (IE)
- Acquired Myocarditis
- Cardiomyopathy in Children
- Pericarditis
- Bradycardia (Slow Heart Rate)
- Tachyarrhythmias (Tachycardia): Definition
- Tachyarrhythmias (Tachycardia): Treatment

Pediatric Pulmonology

- Pediatric (Childhood) Asthma: Pathology, Signs & Symptoms
- Pediatric (Childhood) Asthma: Clinical Presentation
- Pediatric (Childhood) Asthma: Diagnosis & Treatment
- Pediatric Asthma: Management
- Bronchiolitis: Causes and Risks
- Bronchiolitis: Diagnosis
- Bronchiolitis: Clinical Presentation & Management
- Cystic Fibrosis (CF): Pathology
- Cystic Fibrosis (CF): Clinical Presentation, Signs & Symptoms

- Cystic Fibrosis (CF): Diagnosis & Management
- Chronic Lung Disease of Prematurity (Bronchopulmonary Dysplasia – BPD)
- Surfactant Deficiency
- Pulmonary Hypoplasia
- Diaphragmatic Hernia and Congenital Cystic Adenomatoid Malformation (CCAM)
- Pediatric Pulmonary Embolism (PE)
- Allergic Bronchopulmonary Aspergillosis (ABPA)
- Ciliary Dyskinesia
- Alpha-1 Antitrypsin Deficiency
- Pediatric Pneumothorax

Pediatric Gastroenterology

- Approach to Vomiting
- Pediatric Diarrhea: Pathology
- Pediatric Diarrhea: History & Physical Exam
- Pediatric Diarrhea: Lab Work & Imaging
- Conjugated Hyperbilirubinemia
- Alagille Syndrome
- Biliary Atresia
- Pediatric Choledochal Cysts
- Appendicitis in Children
- Pediatric Meckel's Diverticulum
- Intussusception in Children
- Pancreatitis in Children: Pathology
- Pancreatitis in Children: Signs, Symptoms, Diagnosis & Management
- Pediatric Cholecystitis (Inflammation of the Gallbladder)
- Failure to Thrive (FTT): Pathology
- Failure to Thrive (FTT): History & Physical Exam
- Failure to Thrive (FTT): Management

- Constipation in Children: Pathology & Clinical Presentation
- Constipation in Children: Diagnosis & Management
- Hirschsprung's Disease (Congenital Megacolon)
- Congenital Hypertrophic Pyloric Stenosis
- Duodenal Atresia in Children
- Intestinal Malrotation
- Gastroesophageal Reflux Disease (GERD): Pathology, Signs & Symptoms
- Gastroesophageal Reflux Disease (GERD): Diagnosis & Management
- Milk Protein Allergy in Children (Cow's Milk Protein Intolerance, CMPA)
- Celiac Disease in Children
- Pediatric Inflammatory Bowel Disease (IBD): Basics
- Pediatric Inflammatory Bowel Disease (IBD): Diagnosis
- Pediatric Inflammatory Bowel Disease (IBD): Management
- Fluid Replacement Therapy (FTP) in Children: Basics
- Fluid Replacement Therapy (FTP) in Children: Diagnosis
- Fluid Replacement Therapy (FTP) in Children: Management

Pediatric Endocrinology

- Tracking Growth in Children
- Understanding Short Stature in Children
- Growth Delay: Diagnosis & Management
- Normal Puberty in Children
- Precocious Puberty in Children
- Delayed Puberty in Children
- Inborn Errors of Metabolism: Metabolic Pathways
- Disorders of Carbohydrate Metabolism
- Disorders of Amino Acid Metabolism
- Defects of Fatty Acid Oxidation
- Urea Cycle Disorders
- Type 1 Diabetes (Juvenile Diabetes): Basics
- Type 1 Diabetes (Juvenile Diabetes): Typical Presentation

- Type 1 Diabetes (Juvenile Diabetes): Diagnosis
- Type 1 Diabetes (Juvenile Diabetes): Management
- Type 2 Diabetes (Adult Onset Diabetes)
- Diabetes Insipidus (DI) in Children
- SIADH (Syndrome of Inappropriate Antidiuretic Hormone Secretion) in Children
- Hyperthyroidism in Children
- Hypothyroidism in Children
- Congenital Adrenal Hyperplasia (CAH) in Children
- Cushing's Syndrome in Children
- Adrenal Insufficiency (Addison's Disease) in Children
- Calcium Homeostasis in Children
- Hypocalcemia in Children
- Hypercalcemia in Children

Pediatric Neurology

- Seizures in Children: Introduction
- Status Epilepticus: Management
- Generalized Seizure in Children
- Febrile Seizure
- Ataxia in Children
- Migraines and Headaches in Children
- Secondary Headache in Children
- Guillan-Barré Syndrome (GBS) and Acute Disseminated Encephalomyelitis (ADEM)
- Muscular Dystrophy in Children
- Spinal Muscular Atrophy (SMA) in Children
- Infant Botulism
- Myasthenia Gravis in Children
- Cerebral Palsy (CP)
- Intellectual Disability in Children
- Tics and Tourettes in Children

- Tuberous Sclerosis in Children
- Neurofibromatosis (NF) and Sturge Weber Syndrome
- Increased Intracranial Pressure (ICP), Hydrocephalus & Dandy-Walker Variant (DWW)
- Arnold-Chiari Malformations and Craniosynostosis

Pediatric Rheumatology and Orthopedics

- Juvenile Idiopathic Arthritis (JIA)
- Juvenile Idiopathic Arthritis (JIA): Diagnosis & Management
- Swollen Joint in Children: Reactive Arthritis & Transient Synovitis (TS)
- Systemic Lupus Erythematosus (SLE) in Children
- Systemic Lupus Erythematosus (SLE) in Children: Labs and Management
- Granulomatosis with Polyangiitis and Goodpasture Syndrome
- Henoch-Schönlein Purpura (HSP, Spring Fever)
- Kawasaki Disease (Mucocutaneous Lymph Node Syndrome)
- Developmental Dislocation (Dysplasia) of the Hip (DDH)
- Clubfoot (Talipes Equinovarus) and Metatarsus Adductus
- Pediatric Orthopedic Leg Problems: Blount's Disease, Legg-Calvé-Perthes Disease
- (LCPD), Slipped Capital Femoral Epiphysis (SCFE) and Osgood-Schlatter Disease (OSD)
- Nursemaid's Elbow
- Scoliosis in Children
- Osteogenesis Imperfecta (Brittle Bone Disease) in Children

Pediatric Nephrology and Urology

- Pediatric Hematuria (Blood in Urine)
- Pediatric Glomerulonephritis
- Pediatric Proteinuria (Protein in Urine)
- Tubular Proteinuria and Focal Segmental Glomerulosclerosis (FSGS)
- Workup of Proteinuria and Nephrotic Syndrome in Children
- Hemolytic-Uremic Syndrome (HUS) in Children
- Vesicoureteral Reflux (VUR) and Types of Reflux
- Posterior Urethral Valves (PUV) and Ureteropelvic Junction (UPJ) Obstruction
- Vesicoureteral Reflux (VUR): Management
- Pediatric Polycystic Kidney Disease
- Renal Tubular Acidosis (RTA) in Children: Type 1
- Renal Tubular Acidosis (RTA) in Children: Type 2 and 3
- Renal Tubular Acidosis (RTA) in Children: Type 4 and Review
- Pediatric Rhabdomyolysis
- Undescended Testicle in Children and Painful Testicle Syndrome

Pediatric Hematology

- Anemia in Children: Three Categories
- Anemia in Children: Severity and Diagnosis
- Direct and Indirect Coombs Tests
- Anemia in Children: Pathology and Diagnosis
- Pediatric Iron Deficiency Anemia, Vitamin B12 Deficiency, Folate Deficiency & Erythrocyte Aplasia
- Pediatric Pyruvate Kinase Deficiency, Autoimmune Hemolytic Anemia (AIHA) & Hereditary Spherocytosis
- Pediatric Bleeding Disorders: Von Willebrand Disease (VWD)

- Pediatric Bleeding Disorders: Hemophilia
- Hypercoagulability: Primary Causes
- Hypercoagulability: Secondary Causes
- Pediatric Sickle Cell Disease
- Hemoglobin SS Disease
- Pediatric Sickle Cell Disease: Management
- Pediatric Thalassemia
- Pediatric G6PD Deficiency
- Disseminated Intravascular Coagulation (DIC) in Children
- Idiopathic Thrombocytopenic Purpura (ITP)
- Pediatric Neutropenia

Pediatric Infectious Diseases

- The Febrile Baby: Introduction
- The Febrile Baby: Herpes Simplex Virus (HSV) Disease in the Neonate
- The Febrile Baby: Urinary Tract Infection (UTI), Bacteremia & Meningitis
- Infections of the Upper Pediatric Airway: Stomatitis (Oral Mucositis)
- Infections of the Upper Pediatric Airway: Peritonsillar Abscess (Quinsy)
- Infections of the Upper Pediatric Airway: Epiglottitis
- Infections of the Upper Pediatric Airway: Retropharyngeal Abscess
- Infections of the Upper Pediatric Airway: Croup
- Community-acquired Pneumonia (CAP): Pathology, Diagnosis, Signs & Symptoms
- Community-acquired Pneumonia (CAP): Management
- Mycoplasma Pneumonia in Children
- Pneumonia in Children: Pertussis (Whooping Cough)
- Meningitis in Children: Pathology and Diagnosis
- Meningitis in Children: Bacterial vs. Viral, Suspected Bacterial
- Orbital Cellulitis and Preseptal Cellulitis: Pathology & Clinical Presentation
- Orbital Cellulitis and Preseptal Cellulitis: Diagnosis & Management

- Cervical Lymphadenitis: Differential Diagnosis
- Bacterial Cervical Lymphadenitis: Management & Diagnosis
- Scarlet Fever and Rheumatic Fever in Children
- Tuberculosis (TB) in Children: Pathology & Diagnosis
- Tuberculosis (TB) in Children: Management
- Malaria in Children
- Mononucleosis (Mono) in Children
- HIV in Children: Pathology, Clinical Presentation & Diagnosis
- HIV in Children: Management & Prevention
- Toxic Shock Syndrome (TSS) in Children
- Urinary Tract Infections (UTI, Bladder Infection) in Children: Pathology & Diagnosis
- Urinary Tract Infections (UTI, Bladder Infection) in Children: Management
- Urinary Tract Infections (UTI, Bladder Infection) in Children: Underlying Renal Abnormalities & Prevention
- Skin and Soft Tissue Infections (SSTI) in Children: Pathology, Clinical Presentation & Diagnosis
- Skin and Soft Tissue Infections (SSTI) in Children: Management
- Osteomyelitis (Bone Infection) and Septic Arthritis in Children: Pathology
- Septic Arthritis in Children
- Osteomyelitis (Bone Infection) and Chronic Recurrent Multifocal Osteomyelitis (CRMO) in Children
- Immunizations in the United States: Introduction
- Immunizations in the United States: Vaccines
- Immunizations in the United States: Combined Vaccines and Special Considerations
- Tick-Borne Disease, Lyme Disease, Rocky Mountain Spotted Fever (RMSF) & Ehrlichiosis

Pediatric Allergy and Immunology

- Urticaria (Hives) and Angioedema in Children
- Anaphylaxis and Food Allergy (Hypersensitivity) in Children
- T-Cell Deficiency, Severe Combined Immunodeficiency (SCID), Ataxia-Telangiectasia, Wiskott–Aldrich syndrome (WAS) & DiGeorge Syndrome
- Chronic Granulomatous Disease (CGD)
- Humoral Immune Deficiency

Pediatric Dermatology

- Eczema in Children
- Seborrheic Dermatitis, Psoriasis and Impetigo in Children
- Erythema Multiforme and Stevens-Johnson Syndrome (SJS) in Children
- Serum Sickness in Children
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)
- Hemangioma
- Nevus (Moles) in Children
- Scabies, Head Lice (Pediculosis Capitis) and Tinea Corporis (Ringworm) in Children
- Pityriasis Rosea in Children
- Warts (Verruca Vulgaris) and Molluscum Contagiosum in Children
- Hair Loss in Children: Alopecia Areata, Nevus Sebaceus, Traction Alopecia & Trichotillomania (TTM)

Adolescent Medicine

- Dysfunctional Uterine Bleeding (DUB) in Adolescent Girls
- Dysmenorrhea in Adolescent Girls
- Contraception for Adolescent
- Managing Contraceptive Use
- Primary Amenorrhea: Physical Exam
- Secondary Amenorrhea (Adolescent Medicine)
- Vaginitis in Adolescent Girls
- Urethritis in Adolescents
- Pelvic Inflammatory Disease (PID) in Adolescents
- Human Papilloma Virus (HPV) and Genital Warts in Adolescents
- Genital Herpes in Adolescents
- Syphilis in Adolescents
- Breast Masses in Adolescent Girls: Fibroadenoma & Mastitis
- Scrotal Masses in Adolescent Males: Testicular Torsion, Epididymitis, Hydrocele & Varicocele
- Gynecomastia in Adolescent Males
- Depression and Suicide in Adolescents
- Substance Abuse in Adolescents
- Acute Management of Drug Overdose in Adolescents
- Eating Disorders in Adolescents: Bulimia Nervosa & Anorexia Nervosa

Neonatology (Newborn Medicine)

- Neonatology (Newborn Medicine): Introduction
- Neonatal Resuscitation
- Newborn Physical Exam (Part 1)
- Newborn Physical Exam (Part 2)
- Breastfeeding and Anticipatory Guidance for New Parents
- Breastfeeding Problems

- General Infant Care
- Prematurity and Respiratory Distress Syndrome (RDS)
- Apnea of Prematurity and Necrotizing Enterocolitis (NEC)
- Intraventricular Hemorrhage (IVH)
- Infant of a Diabetic Mother
- Laryngomalacia and Tracheomalacia
- Tracheoesophageal Fistula (TEF)
- Neonatal Hyperbilirubinemia (Neonatal Jaundice)
- Unconjugated Hyperbilirubinemia
- Neonatal Hyperbilirubinemia (Neonatal Jaundice): Evaluation of a Baby
- Gastroschisis and Omphalocele
- Neonatal Abstinence Syndrome (NAS)
- Congenital Toxoplasmosis
- Congenital Syphilis
- HIV in Infants: Perinatal Transmission and Management
- Congenital Rubella (German Measles) and Cytomegalovirus Infection (CMV)
- Congenital Herpes Simplex Virus (HSV)

Child Development and Behavior

- Attention-Deficit/Hyperactivity Disorder (ADHD)
- ADHD: Diagnosis
- ADHD: Management
- Autism Spectrum Disorders (ASD)
- Vaccine-Autism-Connection and Clinical Diagnosis
- Sleep Problems in Children
- Baby Colic and Breath Holding Spells
- Toilet Training
- Enuresis
- Encopresis

Pediatric Genetics

- Trisomy 21
- Trisomy 21: Prenatal Screening
- Trisomy 18 and Trisomy 13
- Klinefelter (XXY) and Turner Syndrome (Gonadal Dysgenesis)
- DiGeorge Syndrome
- Williams Syndrome
- Fragile X Syndrome (FXS, Martin-Bell Syndrome)
- Prader–Willi (PWS) and Angelman Syndrome (AS, Happy Puppet Syndrome) in Children
- Marfan Syndrome (MFS)
- Ehlers-Danlos Syndrome (EDS, Elastic Skin)
- CHARGE and VACTERL
- Treacher-Collins Syndrome (TCS) and Pierre Robin Sequence
- Fetal Alcohol Syndrome (FAS)

Pediatric Emergency Medicine

- Red Eye and Orbital Trauma
- Shock in Children
- Treatment of Shock
- Pediatric Primary and Secondary Survey: Introduction
- Pediatric Primary Survey
- Pediatric Secondary Survey
- Burns in Children
- Treatment of Burns
- Common Poisonings in Children
- Aspirin Toxicity
- Acetaminophen Toxicity in Children
- Hypoglycemic Agents, Caustic Agents and Drugs of Abuse

Rheumatology – Pathology

- Lead Poisoning (Plumbism) in Children
- When Babies Stop Breathing: ALTE, BRUE and SIDS
- Sudden Infant Death Syndrome (SIDS)
- Child Abuse
- Child Abuse: Diagnosis and Management
- Sexual Abuse of Children
- Lacerations, Wounds and Bites in Children
- Treatment of Lacerations
- Pediatric Bone Fractures
- Greenstick-, Buckle-, Apophyseal Avulsion-, Supracondylar and Toddler's Fractures
- Epistaxis and Nasal Trauma
- Sinusitis (Sinus Infection) in Children
- Otitis Media (Middle Ear Infection) in Children
- Otitis Externa (Swimmer's Ear) and Mastoiditis in Children

Pediatric Oncology

- Leukemia in Children
- Leukemia in Children: General Symptoms
- Lymphoma in Children
- Central Nervous System Tumors in Children
- 3 Major Types of CNS Tumors: Medulloblastoma & Primitive Neuroectodermal Tumor (PNET), Ependymoma and Glioma
- Neuroblastoma in Children
- Wilms Tumor
- Retinoblastoma in Children

Pediatric Radiology

- Pediatric Fractures
- Chest Abnormalities in Pediatric Radiology
- Bowel Abnormalities in Pediatric Radiology



Mediversal

Why Mediversal?

	Mediversal	
CPD hours/ Credit	✓ 110 hours/Credit	⚠ 3—50 hours/Credit
NMC Guideline	✓ Advantages in accordance with provision 1.4.2 of NMC regulations	⚠ Not all. (Very few)
Renowned International faculties	✓ Yes	⚠ Only for few subjects
Faculty to learner ratio	✓ 1:10	✓ 1:50 or 1:75
Case based learning	✓ Yes	✗ No
AI supported learning	✓ Yes	✗ No
Live Interaction Sessions	✓ Yes	✗ No
Clinical Attachments	✓ Yes (Case to Case basis)	✓ Yes
Associated with Hospitals for Clinical Training	✓ Yes	✓ Yes
Books	✓ Yes (Printable Pdf copy)	✗ No
Complementary e-Learning Module & Certification	✓ Yes	✗ No
Learner Support	✓ Yes	✗ No
Community of Doctors for peer support (Mediversal Alumni only)	✓ Yes	✗ No
Alumni Support	✓ Yes	⚠ Only a few
e-Certification	✓ Yes	✓ Yes
Physical Certification	✓ Yes	⚠ Only a few
Lifetime certificate validity	✓ Yes	✓ Yes
Digital Marketing and Business Support for your hospital/clinic	✓ Yes	✗ No
Admission process	✓ Smooth, Transparent & all details provided	⚠ Spamming through multiple channels.
Data and privacy protection	✓ Yes	✗ No
CME access	✓ Yes (Lifetime)	✗ No
Medico Legal Session	✓ Yes (Free. By renowned high court advocates)	✗ No
National Level Felicitation Award (for Mediversal Alumni)	✓ Yes	✗ No



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