



Neonatology

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Overview

Neonatologists are doctors who specialize in the care of newborn children, a patient population that can present a unique set of health challenges requiring a high level of skill and medical expertise to treat. This is particularly true of premature newborns and those with underdeveloped organs.

This field of practice addresses severe complications seen in newborns—intraventricular hemorrhage, tracheoesophageal fistula, gastroschisis and omphalocele, and congenital infections—and quickly recognizing these complications can be life-saving. Neonatologists also play an important role in more routine aspects of care, like counseling parents before, during, and after childbirth.

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Topics

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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 Infections of the Infant
- HIV in Infants: Perinatal Transmission and Management
- Congenital Rubella (German Measles) and Cytomegalovirus Infection (CMV)
- Congenital Herpes Simplex Virus (HSV)

Newborn Complications

- Assessment of Gestational Age
- Respiratory Distress in Newborns

- Hypothermia – Newborn Complications
- Hypoglycemia – Newborn Complications
- Hyperbilirubinemia – Newborn Complications
- Neonatal Sepsis – Newborn Complications
- Neonatal Abstinence Syndrome (NAS) – Newborn Complications

Newborn Assessment

- Timing and Fetal-to-neonatal Transition
- Newborn Adaptation to Extrauterine Life: Respiration
- First Newborn Assessment and Monitoring
- Medication in the Delivery Room and Newborn Care
- Normal Newborn Assessment: In a Nutshell
- Vital Signs – Initial Assessment of the Newborn
- Measurements – Initial Assessment of the Newborn
- General Appearance – Initial Assessment of the Newborn
- Head and Trunk – Physical Examination of the Newborn
- Genitourinary Assessment – Physical Examination of the Newborn
- Extremities – Physical Examination of the Newborn
- New Ballard Score for Gestational Age Assessment
- Newborn Reflexes and Screening
- Newborn Hearing and Cardiovascular Screening
- Neonatal Stress Reactivity and Circumcision
- When to Contact a Health Provider
- Physical Examination of the Newborn: In a Nutshell

Congenital Gastrointestinal Tract Disorders

- Gastroschisis
- Omphalocele
- Congenital Umbilical Hernia
- Intestinal Malrotation

Congenital Heart Disease (CHD) – Top USMLE Diseases

- Classification – Congenital Heart Disease
- Obstructive Congenital Heart Lesions – Congenital Heart Disease
- Congenital Heart Lesions – Congenital Heart Disease
- Conclusion – Congenital Heart Disease
- Anomalous Coronary Arteries – Congenital Heart Disease
- Shunts Present in Congenital Heart Diseases
- 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)

Preventive Medicine

- Infant Care
- Child and Adolescent Care
- Prenatal Care
- Adult Health Maintenance
- Breast Cancer
- Colorectal Cancer
- Prostate Cancer
- Lung Cancer

General Concepts (MBBS India)

- Outbreak Management and Infection Control
- Health Care Quality Indicators
- Poverty and Social Exclusion – Social Class (SOC)
- Ionizing Radiation – Carcinogenesis
- Miscellaneous Infections of the Gastrointestinal Tract
- Hepatitis A
- Hepatitis A Virus (HAV) – Picornaviruses
- Legionella Pneumophila
- Watery Diarrhea: V. Cholerae/Cholera Toxin
- Campylobacter Jejuni
- Encephalitis: Vector-borne Viruses
- Asbestos, PCB's, Herbicides & Pesticides – Toxic Substances
- Nutrition and Diets
- Prenatal Screening
- Genetic Counseling
- Infant Care
- Ergonomic Principles

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

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Faculty to learner ratio	✓ 1:10	✓ 1:50 or 1:75
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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
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Complementary e-Learning Module & Certification	✓ Yes	✗ No
Learner Support	✓ Yes	✗ No
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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
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Mediversal Academy

A-504B, Unitech Arcadia, South City-2,
Sector-49, Gurgaon (Delhi-NCR)

Branch: Vijayanagar, Bangalore (Karnataka)

+91 97178 59318

contact@mediversal.co.in

www.mediversal.co.in

