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Nota di contenuto	<p>Section 1- Basic - General Aspects of Newborn Diseases and Care -- Neonatal Mortality And Morbidity - The Burden -- Impact Of Maternal Health And Disease On Neonatal Outcome -- Changes In The Newborn At Birth – Fetal To Newborn Transition -- Common Medical Conditions In The Neonates -- Neonatal Screening For Metabolic Diseases -- ophthalmological Surgical Conditions In The Newborn And Neonate -- Neonatal Transfusion -- Effect Of Anesthesia On Developing Brain -- Neonatal Rehabilitation And Outcome -- Section 2. Developmental Anatomical and Physiological aspects -- General Anatomical and Physiological Considerations in The Newborn and Neonates -- The Respiratory System - Development and Physiology -- The Neonatal Airway -- Autonomic Nervous System In The Neonate -- Ventilation And Ventilatory Modes in Neonate -- Haematological Diseases and Syndromes in The Neonate – Haemoglobin. Haemoglobinopathies, And Oxygen Therapy -- Thermoregulation In Newborns, Neonates and Premature -- Clinical Pharmacology of Anesthetic Drugs in Neonates -- Neuromuscular Disorders in Neonate -- Section 3– Special aspects of Neonatal anesthesia -- Preoperative Workup, Perioperative Fasting (NPO) and Early Recovery After Surgery (ERAS) -- Central Venous and Peripheral Arterial Access -- Ultrasound Guided Vascular Access -- Monitoring During Anesthesia In The Newborn And Neonate -- Perioperative Fluid Management and Blood Transfusion In Newborns And Neonates -- Regional and Central Neuraxial Blocks In Neonates -- Anaesthesia Or Sedation For Procedures Outside The Operation Theatre</p>

-- Pain Management In Neonates -- Perioperative Complications And Critical Incidents During Anesthesia In A Surgical Neonate -- Section 4 -- Case Based Anesthesia Management -- Common procedures -- Tracheoesophageal Fistula In The Neonate -- Anesthesia For Congenital Diaphragmatic Hernia -- Anaesthesia For Thoracic Surgery In Neonates -- Abdominal Wall Defects In Newborns And Neonates: Exomphalos And Gastroschisis -- Anesthesia For Gastrointestinal Surgical Conditions In Neonates -- Anaesthesia For Genitourinary Surgery In The Neonate -- Anesthesia For Ophthalmic Procedures In The Newborn, Neonate And Premature -- Neural Tube Development And Defects - Meningocele, Encephalocele, Hydrocephalus -- Anesthesia For Short Procedures -- Anesthetic Consideration In A Neonate With Congenital Heart Disease For Noncardiac Surgery -- Section 5 --anesthesia for Advanced procedures and Uncommon surgeries -- Anesthesia For Laparoscopic Surgery In Neonates -- Anesthesia For Bronchoscopy In Neonates -- Anesthesia For Neurosurgical Procedures In Neonates -- Exstrophy Bladder Or Ectopia Vesicae -- Biliary Atresia And Anesthetic Considerations -- Craniosynostosis -- Cystic Hygroma -- Nesidioblastoma (Congenital Hyperinsulinism – CHI) -- Congenital Broncho-Biliary Fistula (CBBF) -- Neonatal Malignancy And Anaesthesia -- Neonatal Palliative Care: A Paradigm Of Care -- COVID-19 And The Surgical Neonate -- Ethics In Neonatal Anesthesia And Research. .

Sommario/riassunto

The book covers all aspects of anesthesia in newborns, neonates (under 28 days) and premature babies. These patients are highly vulnerable, very small in size and weight, at very high risk, and have high mortality and morbidity, which gets further aggravated by the medical diseases and congenital abnormalities these babies may suffer from. The book provides knowledge that equips the anesthetists with the regional techniques used to provide both anesthesia and analgesia, including information about the drugs used, skills in providing neuraxial blocks, nerve blocks, etc., complications thereof and the specially designed equipment for these patients (IV cannula, endotracheal tubes, ryles tubes, laryngoscopes, SpO2 probes, monitors, incubators, warmers and heaters, mattresses, OT tables). The book covers the pharmacology of drugs used, the effect of anesthetic drugs on the developing brain, pulmonary physiology, airway assessment and management, ventilation modes, getting IV and arterial access, preoperative workup, anesthetic management, and postoperative care. It includes care and concerns from both surgical and anesthesia aspects. It covers all the common surgical diseases along with some rare cases such as oncological concerns, palliative care, ethical concerns and pain management. The book also discusses the role and use of ultrasound. The chapter on anesthesia for short procedures includes common birth and neonatal care injuries. The book contains chapters on fluid therapy, blood and blood product transfusion guidelines and indications, resuscitation of a newborn and neonate, and neonatal rehabilitation to improve neonatal outcomes. It contains a dedicated chapter on why these babies are at a high risk of morbidity and mortality and contributing maternal factors. All the chapters are written by experts in their fields with vast experience. This book bridges the gap in the knowledge of an anesthesiologist between anesthesia for children and adults and newborns, neonates and preterm babies.