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Nota di contenuto	TABLE OF CONTENTS -- CHAPTER 1: History of Training Specialists in Respiratory Diseases -- CHAPTER 2: Development of the Respiratory System -- CHAPTER 3: Physiological basis of the respiratory system -- CHAPTER 4: Clinical History and Physical Examination of the Respiratory System -- CHAPTER 5: Physiological Evolution of Sleep -- CHAPTER 6: Immunological Defense Mechanisms of the Respiratory System -- CHAPTER 7: New Frontiers in Research on the Respiratory System -- CHAPTER 8: Evaluating Pulmonary Function in Infants and Pre-School Children -- CHAPTER 9: Assessing Pulmonary Function in School-age Children and Adolescents -- CHAPTER 10: Assessing Respiratory Muscular Function in Patients with Neuromuscular Diseases -- CHAPTER 12: Assessing Arterial Oxygen Saturation -- CHAPTER 13: Assessing the Sleep of Newborns to Adolescents -- CHAPTER 14: Study of Infection Agents in Respiratory Diseases -- CHAPTER 15: Assessing the Airway with Flexible Endoscopy -- CHAPTER 16: Assessing the Airway with Rigid Endoscopy -- CHAPTER 17: Children with Respiratory Failure -- CHAPTER 18: Children with Persistent Cough -- CHAPTER 19: Infants with Persistent Tachypnea -- CHAPTER 20: Children with Persistent Stridor -- CHAPTER 21: Children with snoring -- CHAPTER 22: Children with Recurring Wheezing -- CHAPTER 23: Haemoptysis in Children -- CHAPTER 24: Infant with an Apparently Life Threatening Event

-- CHAPTER 25: Management of an Immunosuppressed Child with Lung Infection -- CHAPTER 26: Respiratory complications in Children with Neurological Diseases -- CHAPTER 27: Managing a Foreign Body in a Child's Airway -- CHAPTER 28: Epidemiology of respiratory infections -- CHAPTER 29: Acute Laryngitis (CROUP) -- CHAPTER 30: Acute Bronchiolitis -- CHAPTER 31: Community Acquired Pneumonia -- CHAPTER 32: Atypical Pneumonia -- CHAPTER 33: Complicated Pneumonia -- CHAPTER 34: Pneumonia Caused by Emerging Viral Agents -- CHAPTER 35: Pulmonary Tuberculosis -- CHAPTER 36: Respiratory Diseases in the Newborn -- CHAPTER 37: Bronchopulmonary Dysplasia -- CHAPTER 38: Allergic diseases, from the infant to the adolescent -- CHAPTER 39: Latin America Asthma Epidemiology and Related Risk Factors.-CHAPTER 40: Evaluation of Asthma Risk in Infants and Preschoolers.-CHAPTER 41: Asthma: Clinical and Diagnosis Approach -- CHAPTER 42: Asthma: Treatment -- CHAPTER 43: Primary Ciliary Dyskinesia -- CHAPTER 44: Cystic Fibrosis: Clinical and Diagnosis Approach -- CHAPTER 45: Cystic Fibrosis: Treatment -- CHAPTER 46: Pulmonary Aspergillosis -- CHAPTER 47: Post Infectious Bronchiolitis Obliterans -- CHAPTER 48: Obstructive Sleep Apnea Syndrome in Children -- CHAPTER 49: Sudden Infant Death Syndrome -- CHAPTER 50: Primary Immunodeficiencies and Immune Diseases -- CHAPTER 51: Acquired Immune Deficiency Syndrome -- CHAPTER 52: Sickle Cell Disease -- CHAPTER 53: Congenital Malformations of the Airway -- CHAPTER 54: Congenital Lung Malformations -- CHAPTER 55: Gastroesophageal Reflux and Respiratory Diseases -- CHAPTER 56: Pneumothorax and Thoracic Trauma -- CHAPTER 57: Nutrition in Chronic Respiratory Disease -- CHAPTER 58: Diseases Caused by Pollutants and Tobacco Exposure -- CHAPTER 59: Nursing care Education in Chronic Respiratory -- CHAPTER 60: Evidence-Based Medicine for Respiratory Diseases -- CHAPTER 61: Inhalation Therapy -- CHAPTER 62: Pulmonary Anti-Inflammatory Effects of Macrolides -- CHAPTER 63: Chest Physiotherapy -- CHAPTER 64: Pulmonary Rehabilitation in Children with Chronic Respiratory Diseases -- CHAPTER 65: Prolonged Hospitalization due to Chronic Respiratory Diseases -- CHAPTER 66: Oxygen Therapy -- CHAPTER 67: Acute mechanical ventilation -- CHAPTER 68: Chronic Invasive Ventilation -- CHAPTER 69: Long-Term Non-Invasive Ventilation -- CHAPTER 70: Tracheotomy -- CHAPTER 71: Airway Surgery and Endoscopic Procedures -- CHAPTER 72: Lung, Chest Cavity, and Dorsal Spine Surgery -- CHAPTER 73: Extracorporeal Circulation Membrane Oxygenation Therapy for Acute Respiratory Diseases -- CHAPTER 74: Pediatric Lung Transplantation.

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## Sommario/riassunto

This book is a comprehensive and authoritative textbook on pediatric pulmonology. Edited by Pablo Bertrand and Ignacio Sánchez, renowned academics and pediatricians from the Pontifical Catholic University of Chile, it encompasses five sections and 74 chapters, presenting and discussing the most important topics related to pediatric respiratory diseases. Written and presented in a simple and didactic format, it intends to that ease learning and settlement of doubts in pediatric respiratory diseases. The reader is naturally introduced into the physiology, diagnosis, syndromes, diseases and the treatment associated to the respiratory pathologies affecting children. The chapters within this book includes algorithms for the treatment of syndromes and updated treatment proposals grounded on evidence-based medicine for more than 50 pulmonary diseases of pediatric importance. Pediatric Respiratory Diseases – A Comprehensive Textbook is an essential material for the proper clinical approach of respiratory diseases in children. It is intended for all interns, residents

and fellows with interest in pediatric pulmonary medicine, as well as to physicians, general practitioners, pediatricians and pulmonologist who face pediatric respiratory disorders on their clinical practice.

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