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Dysplasia / Michael R. Gomez -- chapter 11 Influence of Surfactant Replacement on Development of Bronchopulmonary Dysplasia / Alan H. Jobe -- chapter 12 Drug Treatment for Established BPD / Thomas A. Hazinski -- chapter 13 Nutritional Issues in Chronic Lung Disease of Premature Infants / Ilene R.S. Sosenko, Michael T. Kinter, and Robert J. Roberts -- chapter 14 Pulmonary Function in BPD and Its Aftermath / Eric C. Eichenwald -- chapter 15 Cardiovascular Abnormalities in Bronchopulmonary Dysplasia / Michael Apkon -- chapter 16 Long-Term Recovery from Bronchopulmonary Dysplasia / Solomon Alkrinawi -- chapter 17 The Goal: Prevention of BPD / Mildred T. Stahlman -- chapter 18 Unique Features of the Immature Lung That Make It Vulnerable to Injury / Scott H. Randell -- chapter 19 Hormonal Effects on Lung Maturation and Disease / Philip L. Ballard -- chapter 20 Mechanisms and Physiological Sequelae of Reactive Species Injury to the Alveolar Epithelium / Imad Y. Haddad -- chapter 21 Surfactant in Chronic Lung Injury / Richard J. King -- chapter 22 The Regulation of the Formation of Pulmonary Alveoli / Donald J. Massaro -- chapter 23 Factors Mediating Cell Growth in Lung Injury / A. Keith Tanswell -- chapter 24 Developmental Airway Structure and Function in Health and Chronic Lung Injury / and Chronic Lung Injury Howard B. Panitch and Thomas H. Shaffer -- chapter 25 Lung Development and the Effects of Chronic Hypoxia / Sheila G. Haworth -- chapter 26 Altered Development of the Pulmonary Circulation in Chronic Lung Injury / Marlene Rabinovitch -- chapter 27 Pulmonary Hypertension in Chronic Lung Disease of Infancy: Pathogenesis, Pathophysiology, and Treatment / Steven H. Abman -- chapter 28 Connective Tissues in Lung Development and Diseases in Early Infancy / David J. Riley -- chapter 29 Pulmonary Edema After Premature Birth: Progression from Acute to Chronic Lung Disease / Richard D. Bland -- chapter 30 Molecular Mechanisms of Oxygen-Induced Lung Injury / Charles Vincent Smith -- chapter 31 Assessment of Tissue Injury from Reactive Oxygen Metabolites / Michael J. Thomas -- chapter 32 Chronic Lung Disease of Early Infancy: Role of Neutrophils / Diane E. Lorant -- chapter 33 The Role of Pulmonary Macrophages in Chronic Lung Disease of Early Infancy / Michael P. Sherman -- chapter 34 Oxidants and Antioxidants: What Role Do They Play in Chronic Lung Disease? / H. Lee Frank and Ilene R.S. Sosenko -- chapter 35 Proteolytic Enzymes and Their Inhibitors in Lung Health and Disease / John R. Hoidal -- chapter 36 Site- and Mechanism-Directed Interventions for Tissue Free Radical Injury / William R. Berrington -- chapter 37 Genetic Models for the Study of Autocrine–Paracrine Signaling in Lung Development and Repair / Jeffrey A. Whitsett -- chapter 38 Animal Models of Chronic Lung Injury / Jacqueline J. Coalson.

Sommario/riassunto

This definitive volume presents the clinical and pathological features of bronchopulmonary dysplasia, a disease that accounts for the majority of long-term hospitalizations, slow growth, and recurrent early childhood respiratory ailments that are common in low-birth-weight newborns. Highlights relevant animal models for studying the process of chronic lung disease through its evolution and during recovery! Written by nearly 75 leading international authorities on lung disease during early childhood development who describe the clinical, radiographic, and pathological changes that have occurred in the 30 years since bronchopulmonary dysplasia was first discovered, Chronic Lung Disease in Early Infancy focuses on the development of technology, notably changes in the application of assisted ventilation traces the evolution and impact of new therapies, including prenatal glucocorticoids and postnatal surfactants suggests effective therapeutic and preventive strategies explains how the lungs develop structurally

and functionally explores how lung development is altered by injury and the repair process critically examines research in the field of pediatric lung pathology reviews what is known and emphasizes what needs to be learned about bronchopulmonary dysplasia provides direction for future research into chronic lung disease and more!.
