

Special Issue

Challenges in Bronchopulmonary Dysplasia

Message from the Guest Editor

Bronchopulmonary dysplasia (BPD) is the most common chronic lung disease in premature infants and is caused by lung inflammation and abnormal lung development. Despite the improved management of acute respiratory failure in preterm infants, BPD lacks curative therapies and remains the most common chronic respiratory morbidity affecting 18,000 infants annually in the United States. BPD is also the most expensive neonatal disease in the United States; the hospitalization cost incurred by an infant with BPD in the first year of life is twice that of infants without BPD. Furthermore, the affected infants have significant long-term pulmonary, cardiovascular, and neurodevelopmental abnormalities, imposing social and economic burdens. Additionally, pulmonary hypertension (PH) is common morbidity of BPD. Importantly, the presence of PH increases both the short- and long-term morbidities and mortality in BPD infants. In this Special Issue, we welcome submissions of studies focused on pathogenesis, pathology, diagnostics and artificial intelligence, management strategies, and long-term outcomes of BPD infants with and without PH.

Guest Editor

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