Disorders affecting primarily the alveolar epithelium and the alveolar space
- Infections
- Surfactant disorders
- Stem cell dysfunction
- Eosinophilic lung diseases

Disorders affecting primarily the alveolar vascular components
- Alveolar capillary dysplasia
- Pulmonary capillary hemangiomatosis
- Lymphatic disorders
- Diffuse alveolar hemorrhage syndromes

Disorders affecting primarily the alveolar interstitial components
- Myofibroblasts dysfunction