



Pediatric Pulmonology: State-of-the-Art

# Dysanapsis: An Anatomic Determinant of Lung Function in Both Development and Disease

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Virtual via ZOOM

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**Target audience:** Pediatric Pulmonologists; Advance Practice Practitioners, nurses and respiratory therapists in pulmonary medicine; Intensivists; Emergency Medicine physicians; Allergists; General Pediatricians

**Learning objectives:**

- Dysanapsis is defined as disproportionate airway caliber compared to lung parenchymal size. This concept was coined in the 1970s and we will review the historical implications of the definition and how it is used today.
- Although it is an anatomic concept, dysanapsis is most often defined clinically by spirometry: low FEV1/FVC ratio with a normal FEV1. A dysanapsis ratio (FEF50/FVC) is used to quantify degree of dysanapsis; a lower dysanapsis ratio equates to greater degrees of dysanapsis.
- Dysanapsis is implicated in disease susceptibility and pathophysiology of respiratory diseases; we will review key literature of dysanapsis and COPD, asthma, and BPD.

**Accreditation:** This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Medical Society of Virginia (MSV) through the joint providership of Inova Office of Continuing Medical Education and Children's National Medical Center. The Inova Office Continuing Medical Education is accredited by the Medical Society of Virginia to provide continuing education for physicians.

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