



INSPIRED Preliminary Program

Session 1: Cystic Fibrosis – From Diagnosis to Aging

1. **Sweat Chloride Testing in Resource-Limited Settings**
Focus: Practical strategies for diagnosis where resources are limited.
2. **The Globalization of CF Care**
Focus: Global initiatives, access to modulators, registry development.
3. **The Microbiome and Inflammation in CF: From Pathogens to Precision Therapy**
Focus: Translational insights from microbiome studies to therapeutic innovation.
4. **Living Longer with CF: Advances in Care and Quality of Life**
Focus: Multisystem care, mental health, fertility, and long-term outcomes.

Session 2: Prematurity and Beyond – Chronic Pulmonary Challenges

1. **Long-Term Effects of Prematurity**
Focus: Lung function trajectories, early-life determinants of chronic lung disease.
2. **Bronchopulmonary Dysplasia: Evolving Definitions and Management Strategies**
Focus: Novel phenotyping, interventions, and long-term follow-up strategies.
3. **Molecular Pathways in Chronic Lung Disease**
Focus: Surfactant synthesis regulation, vascular development, epithelial–endothelial crosstalk.
4. **Neonatal Pulmonary Hypertension – Strategy for Management and Future Outcome**
5. Novel interventions to prevent severe respiratory outcomes in the preterm infant: the cases of CPAP and vitamin C.

Session 3: Complex Lung Disorders – A Global Perspective

1. **Bronchiolitis Obliterans Post-Transplantation**
2. *Focus:* Pathogenesis, early diagnosis, immune modulation, long-term management
3. **Aerodigestive & Lung Interface in Pediatrics**
Focus: Collaborative care models and advanced diagnostics

4. **Pediatric Lung Transplantation: When and How to Refer, and What Comes After**
5. **Home Mechanical Ventilation: Noninvasive versus Invasive Approaches**

Session 4 – Gates Symposium on Advances in Diagnosis of Pneumonia & Long-term Effects

Objective: Frame the global challenge of pediatric pneumonia and its long-term effects on lung health.

1. **Global Burden, Aetiology and Severity of Childhood Pneumonia in 2026 – Implications for Treatment**
2. **AI assisted diagnosis in pneumonia – CxR, lung ultrasound and more**
3. **Biomarkers for Diagnosing Pneumonia and Guiding Antibiotic Use**
4. **Long-Term Impact of Early Childhood Pneumonia**

Session 5 – Suppurative Lung Disease

Objective: Highlight advances in chronic suppurative diseases and immune-related respiratory conditions.

1. **New Insights into the Genetic Basis of Bronchiectasis**
2. **Guideline for the Diagnosis of Primary Ciliary Dyskinesia – New ATS/ERS Official Recommendations**
3. **Lung Involvement in Primary and Acquired Immunodeficiency States**
4. **Post-Infectious Bronchiolitis Obliterans – Latest Advances**

Session 6 – Novel Technology for Childhood Lung Diseases

Objective: Explore novel tools to revolutionize pneumonia diagnosis and clinical decision-making.

Chair: APPS President: Dr. Rina Triasih, Indonesia

1. **Telemedicine in Pediatric Respiratory Diseases**
2. **Interventional flexible bronchoscopy – the cutting edge.**
3. **Innovative and affordable pediatric respiratory devices: Solutions for LMICs.**
4. **Methods to study pulmonary function in children**

Session 7 – Asthma: From Guidelines to Precision Care

1. **GINA Lecture: From Guidelines to Ground Reality – Severe Asthma Across Borders**
Focus: Translating global guidance into real-world clinical practice (HIC vs LMIC)
2. **Debate – Tailoring Asthma Treatment in Children**
 - **Pro:** New asthma drugs biologicals for severe asthma block progression to adult-type disease truly transform the lives of children with severe asthma?
 - **Contra:** New asthma biologicals for severe asthma These new treatments are too costly and with have uncertain long-term effects to justify widespread use?
3. **Unlocking the Translational Pipeline: Biomarkers and Therapies in Pediatric Asthma**
 - *Focus:* From endotypes to biologic therapies, closing the bench-to-bedside gap

Session 8 – Health Disparities in Pediatric Sleep-Disordered Breathing: How to Improve Care Globally - Launch (GIBSY)

1. **Improving Care for SDB in Low-Resource Settings**
2. **Health Disparities Between HICs and LMICs:**
 - SDB diagnostics & treatment access (sleep studies, surgical care, CPAP)
 - Home-based NIV availability and barriers
3. **Proposition of a Global Initiative on SDB**
 - *Focus:* Use of AI and cell phone audiovisual recordings for screening and follow-up
4. **Technology-Dependent Child: Tech-Driven Advances in Pediatric Respiratory Diagnostics and Management**
 - *Focus:* Telemedicine, remote monitoring, digital tools for chronic respiratory care

Session 9 – Rare & Complex Pediatric Lung Diseases

1. A Silent Burden: Recognizing Pediatric Interstitial Lung Disease (ILD) in LMICs
2. Persistent Tachypnea of Infancy / Neuroendocrine Cell Hyperplasia
3. Persistent Cough: When to Worry, When to Investigate
4. Pulmonary Arteriovenous Malformations (AVMs): Diagnosis and Management

Session 10 – Environmental Exposures and Pediatric Lung Health

- 1. Impact of Air Pollution (Outdoor & Indoor) on Pediatric Respiratory Health**
 - Global epidemiology of air pollution
 - Outcomes: Asthma incidence, exacerbations, lung function, neurocognitive impact
- 2. Environmental Effects of Gas Flaring**
 - Evidence from oil-producing regions
 - Mechanistic insights: Airway inflammation, particulate exposure
 - Public health and policy interventions
- 3. Migration and the Pediatric Lung: Respiratory Health in Child Refugees**
 - Environmental exposures, infection risk, TB burden
 - Asthma prevalence and challenges of long-term care
 - Ethical and policy implications
- 4. Early Life Environmental Exposures and Risk of Chronic Lung Disease Development**
 - Perinatal exposures (smoke, pollution, infections)
 - Programming of long-term lung health

Session 11–Year in Review: Major Advances in Pediatric Respiratory Medicine

- 1.** Asthma Year in Review
- 2.** Cystic Fibrosis (CF) Year in Review
- 3.** Sleep Medicine Year in Review
- 4.** Pneumonia Year in Review

Session 12 – Tuberculosis in Children: Unmasking the Disease, Managing the Damage

- 1.** TB and Pneumonia – A Colliding Epidemic
- 2.** Pediatric Tuberculosis: What's New in Diagnosis and Management?
- 3.** Shorter Treatment Regimens for Childhood TB – Progress at Last?
- 4.** Long-Term Impact of Lung Damage After Pulmonary TB: Recognizing and Managing Post-TB Lung Disease

Session 13 – The Gates Foundation Symposium: New Advances in Prevention of Childhood Pneumonia to Reduce Mortality

1. **Severe Pneumonia: What Defines Hypoxaemia and What Are Optimal Interventions?**
 - New thresholds, pulse oximetry availability, oxygen systems
2. **New Immunisations for Children – What to Give and When? Or Immunisation Strategies for Children with Comorbidities (HIV, Sickle Cell Disease, Immunosuppression)**
3. **Access and Affordability of New Vaccines**
 - Financing models, LMIC rollout, partnerships
4. **Vaccine Hesitancy: Building Trust in Communities**
 - Communication strategies, tackling misinformation

Session 14 – The Editor's Choice: Landmark Publications & Translational Insights

Editor's Picks – Key Articles Shaping Pediatric Pulmonology (2025–2026)

- **Gary Wong** (NEJM)
- **Andy Bush** (AJRCCM)
- **Susanna McColley** (Pediatric Pulmonology)
- **Felix Ratjen** (Lancet Respiratory Medicine)

Session 15 - Respiratory Challenges in Preschool Children

1. **Preschool Lung Function: Why Early Detection Matters**
 - FeNO, oscillometry, and early spirometry in clinical decision-making
2. **Cardiopulmonary Exercise Testing in Chronic Lung Disease and Chest Wall Deformities**
 - Practical approach, interpretation, exercise prescription
3. **Pulmonary Rehabilitation in Children and Adolescents**
 - Models of care, exercise training, psychosocial support
4. **The Lung in Congenital Heart Diseases**
 - Pulmonary vascular disease, outcomes post-surgery