

# Virtual 15th Annual International Asthma Conference At Nemaclin

An Interactive Forum on Patient Care, Therapy, and Research

*Friday, March 19<sup>th</sup>, 2021*  
*Virtual Event*



**SPONSORED BY:**



 West Virginia University  
ROBERT C. BYRD  
HEALTH SCIENCES CENTER

## **Conference Overview**

Despite significant advances in our understanding of the pathophysiology and treatment of asthma, and the availability of national and international guidelines on the diagnosis and treatment of asthma, recent surveys show that asthma control and morbidity have not improved. Research is being conducted to address many of these issues. This conference will bring the latest research developments in this rapidly changing field to health care professionals practicing, researching, and teaching asthma care.

Asthma exists in diverse environments and populations and varies in severity by time and patient. Moreover, based on the results of recent research, asthma is being viewed less as a disease and more as a syndrome with multiple phenotypes and endotypes. The resultant heterogeneity forms the basis for the education and discussion embedded in the Nemaclin International Asthma Conference, which takes pride in being one of the only conferences in the world dedicated exclusively to asthma. Its purpose is to create a highly interactive educational environment, including the world's best asthma researchers, teachers, and clinicians, to critique cutting-edge research and translate key research findings into clinical pearls that will benefit patients with asthma.

## Intended Audience and Conference Objectives

This conference is intended for primary care physicians, pediatricians, pulmonologists, allergists, physician assistants, nurse practitioners, ENTs, and asthma specialists.

### Target Audience:

- All practicing allergists/immunologists and pulmonologists
- Fellows in allergy/immunology and pulmonary training programs
- Primary care physicians who care for asthma patients
- Allied health professionals with interest in asthma

### Learning Objectives:

At the conclusion, participants should have the ability to:

- Compare the clinical presentation, complications and risk factors of COVID-19 in children vs. adults
- Describe the pathogenesis of COVID-19
- Discuss the role of primate models and immune responses to COVID-19
- Discuss the development of the new NAEPP guidelines
- Discuss the rationale for the questions chosen
- Discuss the recommendations and implications of the recommendations
- Discuss the history and pharmacology of inhaled  $\beta$ 2-agonists
- Recognize the risks and benefits of short acting inhaled  $\beta$ 2-agonists (SABAs), alone and in combination with LABAs
- Describe the benefits, risks and hurdles for ICS/LABA combinations as maintenance treatment or reliever treatment from mild to severe asthma
- Identify the social determinants of poorly controlled asthma
- Identify the components of a community based approach to improve asthma outcomes
- Recognize the role of emerging technology to predict asthma exacerbations caused by outdoor environmental exposures

## Intended Outcome

To positively impact the morbidity and cost of asthma by providing health care practitioners with recommendations on the care of patients with asthma that are based on the most up-to-date research conducted by the world's leading asthma experts.

## Conference Co-Founders

### Giovanni Piedimonte, MD, FAAP, FCCP

Vice President for Research and Institutional Official of  
Tulane University  
Professor of Pediatrics, Biochemistry and Molecular Biology  
Tulane University School of Medicine  
New Orleans, Louisiana

### David P. Skoner, MD

Professor of Pediatrics  
West Virginia University School of Medicine  
Morgantown, West Virginia

## Conference Directors

### Deborah Gentile, MD

Director of Allergy, Asthma and Immunology,  
East Suburban Pediatrics  
Murrysville, Pennsylvania

### Paul O'Byrne, MB, FRCP(C), FRSC

Dean and Vice President,  
Faculty of Health Sciences,  
Michael G DeGroot School of Medicine,  
McMaster University  
Hamilton, Ontario, Canada

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### David P. Skoner, MD

Professor of Pediatrics  
West Virginia University School of Medicine  
Morgantown, West Virginia

### Sally E. Wenzel, MD

Sally E. Wenzel, MD  
Professor of Medicine and Immunology  
Chair, Department of Environmental and Occupational Health  
Graduate School of Public Health  
Director, University of Pittsburgh Asthma Institute @ UPMC  
Rachel Carson Chair in Environmental Health  
Pittsburgh, Pennsylvania

## Speakers

### CANADA

### Paul O'Byrne, MB, FRCP(C), FRSC

Dean and Vice President,  
Faculty of Health Sciences,  
Michael G DeGroot School of Medicine,  
McMaster University  
Hamilton, Ontario, Canada

### SOUTH AFRICA

### Eric D. Bateman, MB ChB (UCT), MD(UCT), FRCP, DCH(UK)

Emeritus Professor  
Division of Pulmonology & Department of Medicine  
University of Cape Town  
*and*  
University of Cape Town Lung Institute  
Cape Town, South Africa

### UNITED STATES

### Leonard Bielory, MD

Professor of Medicine, Allergy, Immunology and Ophthalmology  
Hackensack Meridian School of Medicine  
Professor of Medicine  
Thomas Jefferson University - Sidney Kimmel School of Medicine  
Professor Center of Environmental Prediction  
Rutgers University  
East Rutherford, New Jersey

### William W. Busse, MD

Professor of Medicine  
Division of Allergy, Pulmonary and Critical Care Medicine  
University of Wisconsin School of Medicine and Public Health  
Madison, Wisconsin

### Merritt Fajt, MD FAAAAI

Assistant Professor of Medicine  
Division of Pulmonary, Allergy and Critical Care Medicine  
Associate Program Director- Allergy Immunology Fellowship  
University of Pittsburgh Medical Center  
Pittsburgh, Pennsylvania

### Benjamin Gaston, MD

Professor of Pediatrics  
Herman B Wells Center for Pediatric Research  
Indiana University School of Medicine  
Indianapolis, Indiana

### Deborah Gentile, MD

Director of Allergy, Asthma and Immunology  
East Suburban Pediatrics  
Murrysville, Pennsylvania

### Sumita B. Khatri, MD MS

Director, Asthma Center & Vice Chair Respiratory Institute  
Professor of Medicine, CCLCM / CWRU School of Medicine  
Cleveland Clinic  
Cleveland, Ohio

### Jay K. Kolls, MD

Professor of Medicine and Pediatrics  
John W Deming Endowed Chair in Internal Medicine  
Director, Center for Translational Research in Infection and  
Inflammation  
Tulane School of Medicine  
New Orleans, Louisiana

### Robert F. Lemanske, Jr., MD

Professor Emeritus of Pediatrics and Medicine  
University of Wisconsin School of Medicine and Public Health  
Madison, Wisconsin

### Amy G. Nevin, MD

Pediatrician  
*Program Director / Coach*, Diabetes Wraparound Program of UPMC  
Children's Hospital of Pittsburgh  
*Consultant/Educator*, University of Pittsburgh School of Medicine,  
Department of Adolescent Medicine  
Pittsburgh, Pennsylvania

### **Reynold A. Panettieri Jr., MD**

Professor of Medicine  
Robert Wood Johnson Medical School  
Vice Chancellor, Clinical & Translational Science Director  
Rutgers Institute for Translational Medicine & Science  
Emeritus Professor of Medicine  
University of Pennsylvania  
Philadelphia, Pennsylvania

### **Giovanni Piedimonte, MD,**

#### **FAAP, FCCP**

Vice President for Research and Institutional Official of  
Tulane University  
Professor of Pediatrics, Biochemistry and Molecular Biology  
Tulane University School of Medicine  
New Orleans, Louisiana

### **James E. Robinson, MD**

Professor of Pediatrics  
Section of Infectious Diseases  
Tulane University School of Medicine  
New Orleans, Louisiana

### **Chad J. Roy, Ph.D., M.S.P.H.**

Director, Infectious Disease Aerobiology  
Director, Biodefense Research Programs  
Tulane National Primate Research Center  
Professor of Microbiology & Immunology  
Tulane School of Medicine  
New Orleans, Louisiana

### **David P. Skoner, MD**

Professor of Pediatrics  
West Virginia University School of Medicine  
Morgantown, West Virginia

### **Tyra Bryant-Stephens, MD**

Director and Founder  
The Community Asthma Prevention Program  
The Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania

### **Sally E. Wenzel Morganroth, MD**

Professor of Medicine and Immunology  
Chair, Department of Environmental and Occupational Health  
Graduate School of Public Health  
Director, University of Pittsburgh Asthma Institute@UPMC  
Rachel Carson Chair in Environmental Health  
Pittsburgh, Pennsylvania

## **Disclosure:**

It is the policy of the WVU School of Medicine Office of CME to ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty/authors/planners participating in our programs are expected to disclose any relevant relationships they may have with commercial companies. Final disclosure information is available on the conference website at <https://www.asthma-nemacolin.com>

## Friday, March 19th

- 7:50 a.m. **Welcome Remarks and Conference Overview**  
**David Skoner, MD**
- Symposium: COVID-19**  
Moderator: **Giovanni Piedimonte, MD, FAAP, FCCP**
- 8:00 a.m. COVID-19 Transmission, Clinical Presentation, Complications and Risk Factors of COVID-19 in children vs. adults  
**Giovanni Piedimonte, MD, FAAP, FCCP**
- 8:20 a.m. Pathogenesis of COVID-19  
**Jay K. Kolls, MD**
- 8:40 a.m. Primate models of COVID-19  
**Chad J. Roy, Ph.D., M.S.P.H.**
- 9:00 a.m. Immune response to SARS-CoV-2 and the SeroNet project  
**James E. Robinson, MD**
- 9:20 a.m. *Discussion*
- 10:00 a.m. *Break, Visit Virtual Exhibits*
- Symposium: Update on the 2020 NAEPP Guidelines**  
Moderator: **Sally E. Wenzel Morganroth, MD**
- 10:15 a.m. Overview of approach, certainty of recommendations, gaps, and future directions  
**Robert F. Lemanske, Jr., MD**
- 10:35 a.m. Update on FeNO and pediatrics  
**Benjamin Gaston, MD**
- 10:55 a.m. Use of Allergen remediation and Immunotherapy  
**Merritt Fajt, MD, FAAAAI**
- 11:15 a.m. Update on BT recommendations  
**Sumita B. Khatri, MD MS**
- 11:35 a.m. *Discussion*
- 12:15 p.m. **BREAK**
- Symposium: The Pros and Cons of Inhaled  $\beta_2$ -agonists in Asthma**  
Moderator: **Paul O'Byrne, MB, FRCP(C), FRSC**
- 1:15 p.m. Pharmacology of Inhaled  $\beta_2$ -agonists  
**Reynold A. Panettieri, Jr., MD**
- 1:35 p.m. Benefits vs Risks of Short-Acting  $\beta_2$ - Agonists in Asthma  
**Paul O'Byrne, MB, FRCP(C), FRSC**
- 1:55 p.m. Inhaled Corticosteroids/Long Acting  $\beta_2$ -Agonists as Relievers  
**Eric D Bateman MB ChB (UCT), MD (UCT), FRCP, DCH(UK)**
- 2:15 p.m. Benefits, Risks, and Hurdles to Inhaled Corticosteroids/Long Acting  $\beta_2$ - Agonist Use in Mild to Severe Asthma  
**William W. Busse, MD**
- 2:35 p.m. *Discussion*

3:15 p.m.

***Break, Visit Virtual Exhibits***

**Symposium:** Symposium - Community Initiatives to Improve Asthma Outcomes

Moderator: **Deborah Gentile, MD**

3:30 p.m.

Social Determinants of Asthma

**Amy G. Nevin, MD**

3:50 p.m.

Community Asthma Prevention Program: Road to Achieving Health Equity for Children with Asthma

**Tyra Bryant-Stephens, MD**

4:10 p.m.

Development of Personal Technology to Prevent Worsening Asthma Due to Outdoor Environmental Exposures

**Leonard Bielory, MD**

4:30 p.m.

***Discussion***

5:00 p.m.

**Closing Remarks/Adjournment**

**David P. Skoner, MD**

## Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the WVU School of Medicine and Maci's TEAMS. The WVU School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The WVU Office of CME designates this live activity for a maximum of 7.5 *AMA PRA Category 1 Credits*<sup>™</sup>.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Non-Physicians

West Virginia University Office of Continuing Education will confirm participation in this educational activity.

## Refund Policy

A refund of the registration fee, less a \$75 processing fee, will be made when a written request or a telephone request followed by a written confirmation is received prior to March 18<sup>th</sup>, 2021. After this date, refunds will not be made. Fees will not be refunded for failure to attend.

West Virginia University reserves the right to cancel or postpone any conference because of unforeseen circumstances or insufficient enrollment. In the event of such cancellation, full tuition will be refunded.

## Registration Information

The registration fee includes course materials.

### Fee:

\$200 Physicians

\$150 Nurse Practitioners, Physician Assistants, and Other Healthcare Professionals

\$100 Fellows in Training

### To Register:

Please go to <https://www.asthma-nemacolin.com>

The preferred method of payment is by VISA, MasterCard, American Express or Discover.

## Additional Information

- Visit Website to View Complete Conference Information (including CME) and Register: <https://www.asthma-nemacolin.com>
- For questions, contact Jessica Bolton ([jbolton@macisteams.org](mailto:jbolton@macisteams.org)).