

14th Annual International Asthma Conference At Nemaclin

An Interactive Forum on Patient Care, Therapy, and Research

Friday, October 25 - Sunday, October 27, 2019
Nemaclin Woodlands Conference Center
Farmington, Pennsylvania

INTERNATIONAL



NEMACOLIN ASTHMA CONFERENCE

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 NemaColin 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:

- Identify major advances in key areas of cutting-edge research in immunologic mechanisms and allergic responses, including pathophysiology of the upper and lower airways.
- Describe basic processes linking molecular and cellular biology and genetics with allergy and asthma pathophysiology.
- Translate emerging clinical science principles to clinical practice in patients with allergy and asthma.
- Evaluate and implement state-of-the-art diagnostic and therapeutic strategies for treating patients with allergy and asthma.
- Explain the impact of environmental exposures and external influences on patients with allergy and asthma.
- Recognize emerging trends in the prevalence of allergy and asthma and discuss their impact on public health.

- Evaluate the impact of new diagnostic and therapeutic strategies on health care costs and outcomes.
- Discuss processes, tools and technologies for the efficient allergy and asthma practice.

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 of Tulane University
Professor of Pediatrics
Tulane University School of Medicine
New Orleans

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, Monroeville PA
Medical Director, Allergy and Asthma Wellness Centers,
Butler PA

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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Morgantown, West Virginia

Sally E. Wenzel, MD

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Professor of Medicine and Immunology
Chair, Department of Environmental and Occupational Health
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Rachel Carson Chair in Environmental Health

Fellows Program Director

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

Chief Discussant

THOMAS A. E. PLATTS-MILLS, MD, PHD, FRS

Professor of Medicine and Microbiology University of Virginia
Charlottesville, Virginia

Scientific Session

Chair/Moderator

JAY K. KOLLS, M.D.

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

Speakers

ARGENTINA

Fernando Polack, MD

Scientific Director, INFANT Foundation
Buenos Aires

AUSTRALIA

Professor Helen Reddel, MBBS, PhD, FRACP

Research Leader, Woolcock Institute of Medical Research
Pulmonologist, Royal Prince Alfred Hospital
Chair, GINA Science Committee
Sydney

CANADA

Gail Gauvreau, PhD

Professor, Division of Respiratory
Department of Medicine, McMaster University
Hamilton

Professor, Division of Respiratory
Department of Medicine, McMaster University
Hamilton

Malcolm Sears, MBChB, FRACP, FRCPC, FAAAAI, FERS

Professor of Medicine, McMaster University
Hamilton

Padmaja Subbarao, MD, FRCP(C)

Paediatric Respiratory Medicine
Associate Professor, Paediatrics
University of Toronto
The Hospital for Sick Children
Toronto

Stuart Turvey, MBBS, DPhil, FRCPC

Canada Research Chair in Pediatric Precision Health
Aubrey J. Tingle Professor of Pediatric Immunology
The University of British Columbia
Vancouver

UNITED KINGDOM

Ian Pavord, MA, MBBS, DM, FRCP, FERS, FMedSci

Professor of Respiratory Medicine
University of Oxford
Honorary Consultant Physician
Oxford University Hospitals Foundation Trust
Oxford

Moisés Calderón, MD, PhD

Professor Internal Medicine and Allergy
Faculty of Medicine, University of Costa Rica
San José, Costa Rica
Honorary Clinical Consultant in Allergy and Respiratory Medicine
Royal Brompton Hospital, London

UNITED STATES

Rodney Britt, PhD

Assistant Professor of Pediatrics
The Ohio State University
Columbus

Matt Camiolo, MD

Post-Doctoral Scholar
University of Pittsburgh Asthma Institute at UPMC
Pittsburgh

Julie Cousler Emig, MSW, LSW

Executive Director
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John W Deming Endowed Chair in Internal Medicine
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Tulane School of Medicine
New Orleans

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Gladys and Roland Harriman Professor of Medicine
Joan and Sanford I. Weill Department of Medicine
Weill Cornell Medical College
New York

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Thomas A. E. Platts-Mills, MD, PhD, FRS

Professor of Medicine and Microbiology
University of Virginia
Charlottesville

Benjamin Raby, MD, MPH

Leila and Irving Perlmutter, Associate Professor of Pediatrics Harvard
Medical School
Chief, Division of Respiratory Medicine
Boston Children's Hospital
Director, Pulmonary Genetics Center
Brigham and Women's Hospital

Brian Schroer, MD

Division Director
Akron Children's Hospital
Center for Allergy and Immunology
Akron

David P. Skoner, MD

Professor of Pediatrics
West Virginia University School of Medicine
Morgantown

Sally E. Wenzel Morganroth, MD

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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

Jeff Wilson, MD, PhD

Division of Allergy & Immunology
Assistant Professor of Medicine
University of Virginia
Charlottesville

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, October 25

7:00 a.m.	<i>Registration, Continental Breakfast, Visit Exhibits</i>
8:20 a.m.	Welcome Remarks and Conference Overview David Skoner, MD Symposium: Corticosteroid Responses Moderator: David Skoner, MD
8:30 a.m.	Clinical Responses to Inhaled and Systemic Corticosteroids in Asthma David Skoner, MD
8:55 a.m.	Corticosteroid Resistance in Asthma: Glucocorticoid Receptor and Beyond Rodney Britt, PhD
9:20 a.m.	<i>Discussion</i>
9:30 a.m.	Using Relationship-Centered Communication Skills to Establish a Relationship and Improve Asthma Management Brian Schroer, MD
10:10 a.m.	<i>Break, Visit Exhibits</i> Symposium: Innovative Approaches to Improving Patient Outcomes Moderator: Deborah Gentile, MD
10:30 a.m.	School and Community Based Strategies to Improve Asthma Outcomes Deborah Gentile, MD
11:10 a.m.	Improved Asthma Outcomes in School-Based Health Centers Julie Cousler Emig, MSW, LSW
11:45 a.m.	<i>Discussion</i>
12:00 p.m.	<i>Lunch</i>
1:15 p.m.	Regulation of Extra-Intestinal Immunity by the Gut Microbiome Jay Kolls, MD Symposium: Airway Hyperreactivity/Airway Smooth Muscle Moderator: Jay Kolls, MD
1:45 p.m.	Airway Hyperreactivity in Mouse Models of Allergic Asthma Rodney Britt, PhD
2:10 p.m.	Airway Smooth Muscle in Asthma Reynold A. Panettieri, Jr., MD
2:35 p.m.	<i>Discussion</i>
2:45 p.m.	<i>Break, Visit Exhibits</i>
3:05 p.m.	Pro-Con Debate Anti IL-5 Pathway as Opposed to Anti IL-4R Pathway Should be the 1st Line Approach for T2-Hi Severe Asthma PRO: Ian Pavord, MA, MBBS, DM, FRCP, FERS, FMedSci CON: Sally Wenzel Morganroth, MD
3:50 p.m.	Medical Survivor: Pediatric Cases David Skoner, MD
4:35 p.m.	Closing Remarks/Adjournment
4:45 p.m.	Welcome Reception

Saturday, October 26

- 7:00 a.m. *Registration, Continental Breakfast, Visit Exhibits*
- 8:30 a.m. **Welcome Remarks and Conference Overview**
David Skoner, MD and Sally Wenzel Morganroth, MD
Symposium: De-Convolution of Asthma
Moderator: **Sally Wenzel Morganroth, MD**
- 8:45 a.m. **Keynote Lecture**
Treatable Traits as Tools to Understand and Treat Asthma
Ian Pavord, MA, MBBS, DM, FRCP, FERS, FMedSci
- 9:15 a.m. **The Phil Fireman Lecture**
The “De-Convolution” of Asthma and Impact on Guidelines
Helen Reddel, MBBS, PhD, FRACP
- 9:45 a.m. *Discussion*
- 10:00 a.m. *Break, Visit Exhibits*
- 10:20 a.m. Complex Integration of Molecular Data to Identify Phenotypes
Matt Camiolo, MD
- 10:45 a.m. IgE to Galactose- α -1,3-galactose (α -Gal) in Red Meat Allergy and Relevance to Coronary Artery Disease
Jeff Wilson, MD, PhD
- 11:10 a.m. *Discussion*
- 11:25 a.m. *Lunch*
- Symposium: Precision Respiratory Medicine**
Moderator: **Giovanni Piedimonte, MD**
- 12:35 p.m. Leveraging Digital Technology, Artificial Intelligence, and Precision Medicine to Treat Respiratory Diseases Along the Continuum of Care
Giovanni Piedimonte, MD
- 1:10 p.m. Precision Medicine in Asthma
Benjamin Raby, MD, MPH
- 1:40 p.m. **Gilbert Friday Memorial Lecture** Personalized Therapy for RSV Lower Respiratory Tract Disease: TLR4, the Environment and Type 2 Polarization
Fernando Polack, MD
- 2:20 p.m. *Discussion*
- 2:40 p.m. *Break, Visit Exhibits*
- 3:00 p.m. **Pro-Con Debate**
FeNO is Useful in Determining Treatment Requirements in Asthma
PRO: **Reynold A. Panettieri, Jr., MD**
CON: **Helen Reddel, MBBS, PhD, FRACP**
- 3:45 p.m. Fellows Presentations: **Ruth Cusack, MD; Christina Duncan, PhD; Taylor Eddens, MD, PhD; Rachel M. Wojcik, MD**
Moderator: **Reynold A. Panettieri, Jr., MD**
- 4:45 p.m. **Closing Remarks/Adjournment**
- 5:00 p.m. **Poster Session/Reception**
- 7:00 p.m. **Conference dinner for registrants, faculty and guests**

Sunday, October 27

- 7:30 a.m. ***Registration, Continental Breakfast, Visit Exhibits***
Symposium: Early Life Determinants of Asthma Development
Moderator: **Jay Kolls, MD**
- 8:15 a.m. Declining Antibiotic Use, Gut Microbiome, and Asthma Incidence in Children
Stuart Turvey, MBBS, DPhil, FRCPC
- 8:40 a.m. Viruses
Giovanni Piedimonte, MD
- 9:05 a.m. **William J. Doyle Memorial Lecture**
Environmental Allergens
Malcolm Sears, MBChB, FRACP, FRCPC, FAAAAI, FERS
- 9:35 a.m. Lung Function
Padmaja Subbarao, MD, FRCP(C)
- 10:00 a.m. ***Discussion***
- 10:20 a.m. ***Break, Visit Exhibits***

Symposium: IgE and Asthma
Moderator: **Deborah Gentile, MD**
- 10:30 a.m. Can the Allergen Model Help Identify Key Pathways of Allergic Airway Inflammation
Gail Gauvreau, PhD
- 10:55 a.m. Dust Mite, Asthma, and Immunotherapy
Moisés Calderón, MD, PhD
- 11:20 a.m. Effects of Hygiene on IgE Antibodies to Dust Mite Component
Thomas A. E. Platts-Mills, MD, PhD, FRS
- 11:45 a.m. ***Discussion***
- 12:00 p.m. **Closing Remarks and Adjournment**
Giovanni Piedimonte, 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 16.25 *AMA PRA Category 1 Credits*TM. 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.

Location, Directions, and Accommodations

Nemacolin Woodlands Conference Center Farmington, Pennsylvania

For directions to Nemacolin Woodlands, please visit their website at www.nemacolin.com.

A block of rooms has been reserved at Nemacolin Woodlands at the special conference rate of \$309.00 + tax single/double occupancy for a lodge room and \$329.00 + tax single/ double for chateau room. There is no additional charge for children seventeen (17) years of age and under when sharing the same room as the parents and using existing bedding.

A resort fee of \$20.00 per room/per night will also apply. This fee includes valet parking, on-property shuttle service, fitness center access (not inclusive of wet areas) wireless internet, local and toll-free calls, pool access, in-room coffee, newspaper, art tours, tennis, hiking, trail access, and marina access.

In addition, Nemacolin Woodlands is pleased to offer the following:

- 15% discount on merchandise purchases in the Nemacolin Retail Shoppes.
- 10% discount on all resort activities, including golf, spa, and shooting, excluding the Wild Side.

Reservations may be made by calling 1-800-422-2736 or 724-329-8555 (ask for reservations). Please be sure to mention you are with the International Asthma Conference to take advantage of the special conference room rate. The room block is limited; therefore, make reservations as soon as possible! The deadline for making reservations at the above rates is September 25, 2019. After this date, reservations will be accepted on space availability and at the prevailing rate.

Activities

Nemacolin Asthma Conference Dinner

Saturday Evening, 7 – 9 p.m.

Please join us for an opportunity to meet with fellow registrants, faculty, and guests. We promise you a fun-filled evening. Cost per conference registrant is \$45.00 per person; cost per guest is \$45.00 per person. There is also special pricing for children ages 5–11 years of \$15.00 per child. RSVP on the registration form. Tickets will be with your registration packet.

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 October 10, 2019. 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, lunch, and break refreshments.

Fee:

\$475 Physicians

\$200 Residents*, Fellows*, Nurses and Other Health Care Professional

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@macisteam.org).
- Fellows in Training (Allergy/Immunology and Pulmonology) can submit research abstract for presentation and apply for travel grant.