

Eleventh Annual NemaCOLIN International Asthma Conference

An Interactive Forum on Patient Care, Therapy and Research

Friday through Sunday, October 28-30, 2016

NemaCOLIN Woodlands Conference Center

Farmington, Pennsylvania



SPONSORED BY

Department of Medicine
Division of Allergy, Asthma and Immunology
Allegheny General Hospital
Allegheny Health Network
Pittsburgh, Pennsylvania

In collaboration with

The Cleveland Clinic Foundation
Cleveland, Ohio

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**Allegheny General
Hospital**



Cleveland Clinic

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 Objectives

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

At the conclusion, participants should have the ability to:

- Explore the prenatal and postnatal origins of asthma.
- Examine the small airway pathology in asthma versus other lung diseases.
- Review small airway physiology and treatment.
- Update steroid safety in children and adults with asthma.
- Discuss the mechanisms and treatment of chronic cough in asthma and chronic rhinosinusitis.
- Examine the gut and lung microbiome related to asthma.
- Review the science of adherence in asthma treatment.
- Update the relationship between allergy and asthma.

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 Directors

Deborah Gentile, MD

Associate Professor of Medicine
Temple University School of Medicine
Director of Research
Division of Allergy, Asthma and Immunology
Allegheny Health Network
Pittsburgh, Pennsylvania

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

Dean and Vice President,
Faculty of Health Sciences,
Michael G DeGroote School of Medicine,
McMaster University
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Giovanni Piedimonte, MD, FAAP, FCCP

Conference Co-Founder
Professor & Chair, Cleveland Clinic Pediatric Institute
Physician-in-Chief, Cleveland Clinic Children's Hospital
President, Cleveland Clinic Children's Hospital for
Rehabilitation
The Cleveland Clinic
Cleveland, Ohio

David P. Skoner, MD

Conference Co-Founder
Professor of Pediatrics,
Director, Division of Allergy and Immunology
West Virginia University School of Medicine
Morgantown, West Virginia

Sally E. Wenzel, MD

Professor of Medicine
Director, University of Pittsburgh Asthma Institute @
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Subsection Chief of Allergy Pulmonary, Allergy and
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Pittsburgh, Pennsylvania

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

Oscar Swineford Jr Professor of Medicine
Head, Asthma and Allergic Diseases Center
University of Virginia
Charlottesville, Virginia

Symposium Chair

Jay K. Kolls, MD

Director, Richard King Mellon Foundation Institute for
Pediatric Research
Professor of Pediatrics
University of Pittsburgh School of Medicine
Vice Chair for Translational Research
Department of Pediatrics
Children's Hospital of Pittsburgh of UPMC
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Faculty

Maria G. Belvisi BSc, PhD FBPhS, FERS

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London, United Kingdom

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Tyra Bryant-Stephens, MD

Director and Founder, The Community Asthma
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Leonardo M. Fabbri, MD, FERS

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Sant'Agostino Estense Hospital
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Faculty (cont.)

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Department Chair
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Henry Ford Hospital and Health System
Detroit, Michigan

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Professor of Medicine
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Department of Medicine UPMC
Chair of Translational Pulmonary and Critical Care
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and the Microbiome
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

Dennis R. Ownby, MD

Professor of Pediatrics
Augusta University
Augusta, Georgia

Robert Schleimer, PhD

The Roy and Elaine Patterson Professor
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Northwestern Feinberg School of Medicine
Chicago, Illinois

Faculty (cont.)

Jaclyn Smith, FRCP, PhD

Professor of Respiratory Medicine/ Honorary Consultant
Centre for Respiratory and Allergy, University of
Manchester,
University Hospital of South Manchester,
Manchester, United Kingdom

Donata Vercelli, MD

Professor of Cellular and Molecular Medicine
Director, Arizona Center for the Biology of Complex
Diseases
Associate Director, Asthma and Airway Disease Research
Center
University of Arizona
Tucson, Arizona

Andrew G. Weinstein MD

Associate Clinical Professor Pediatrics
Sidney Kimmel Medical College-Thomas Jefferson
University
President, Asthma Management Systems LLC
Philadelphia, Pennsylvania

Samuel Yousem, MD

Vice Chairman of Anatomic Pathology Services
Director of the Division of Anatomic Pathology,
Co-Director of the Community Pathology Division
UPMC
Pittsburgh, Pennsylvania

In accordance with the Accreditation Council for Continuing Medical Education (ACCME) and the policy of Allegheny General Hospital, presenters must disclose all relevant financial relationships, which in the context of their presentation(s), could be perceived as a real or apparent conflict of interest, (e.g., ownership of stock, honoraria or consulting fees). Any identifiable conflicts will be resolved prior to the activity. Any such relationships will be disclosed to the learner prior to the presentation(s).

11th Annual Nemaclin International Asthma Conference

Friday, October 28, 2016

8:00 a.m. *Registration/Continental Breakfast (Visit Exhibits)*

8:45 a.m. Welcome Remarks
David P. Skoner, MD

9:00 a.m. Update on Corticosteroid Safety in Children
David P. Skoner, MD

9:30 a.m. Precision severe asthma management: The How, When and Where?
Reynold A. Panettieri, Jr., MD

10:00 a.m. Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**

10:20 a.m. Fellows Abstract Presentations
**Moderators, Reynold A. Panettieri Jr., MD, Director of Conference
Fellows Program**

11:20 a.m. *Break and Refreshments (Visit Exhibits)*

Symposium on Origins of Asthma
Symposium Chair: Giovanni Piedimonte, MD

11:35 a.m. **Philip Fireman, MD Lecture**
Epigenetic mechanisms of asthma inception
Donata Vercelli, MD

11:55 a.m. Fetal programming by viruses
Giovanni Piedimonte, MD

12:15 p.m. Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**

12:35 p.m. *Industry sponsored lunch or lunch on your own (Not for credit)*

1:35 p.m. Systems biology of asthma
Sergejs Berdnikovs, PhD

1:55 p.m. PRO/CON Debate
Environmental Allergens are the Major Cause of Childhood Asthma
PRO: Dennis Ownby, MD
CON: Giovanni Piedimonte, MD

2:40 p.m. *Adjournment*

11th Annual NemaColin International Asthma Conference

Saturday, October 29, 2016

7:00 a.m. *Optional Industry Lecture and Breakfast*

8:00 a.m. *Registration/Continental Breakfast (Visit Exhibits)*

8:30 a.m. Opening Remarks

David P. Skoner, MD

8:45 a.m. Opening Remarks and Introductions

Sally E. Wenzel, MD & Paul O'Byrne, MB, FRCP(C), FRSC

9:00 a.m. Regulation of Extraintestinal Immunity by the Gut Microbiome

Jay Kolls, MD

Symposium on Small Airways

Symposium Chair: Sally Wenzel, MD

9:20 a.m. **Gilbert Friday Memorial Lecture**

Reduced FEF₂₅₋₇₅ in asthma. What does it mean and what are the clinical implications?

Fernando Holguin, MD

10:00 a.m. **Keynote Lecture**

Pathologic Approach to Small Airways Disease

Samuel Yousem, MD

10:40 a.m. Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**

11:00 a.m. *Break (Visit Exhibits)*

Symposium on Chronic Cough

Symposium Chair: Paul O'Byrne, MB, FRCP(C), FRSC

11:20 a.m. Chronic Cough in Asthma

Jaclyn Smith, FRCP, PhD

11:40 a.m. Mechanisms of Chronic Cough

Maria G. Belvisi, BSc, PhD, FBPhS, FERS

12:00 p.m. Mechanisms of Pathogenesis of Chronic Rhinosinusitis

Robert P Schleimer, MD

12:20 p.m. Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**

12:40 p.m. *Industry sponsored lunch or lunch on your own (Not for credit)*

1:40 p.m. PRO/CON Debate

Animal Models are Required for the Development of New Drugs for Asthma

PRO: Maria G. Belvisi, BSc, PhD, FBPhS, FERS

CON: Sally Wenzel, MD

Saturday, October 29, 2016 (cont.)

Symposium on the Science of Adherence

Symposium Chair: Deborah Gentile, MD

- 2:25 p.m.** Impact of Health Literacy and Socioeconomic Status on Asthma Disparities
Tyra Bryant-Stephens, MD
- 2:45 p.m.** A Telehealth Program to Improve Adherence to Inhaled Corticosteroid Therapy
Andrew G Weinstein, MD
- 3:05 p.m.** Update on Local Pediatric Asthma Prevalence and Control
Deborah Gentile, MD
- 3:25 p.m.** Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**
- 3:45 p.m.** *Closing Remarks*
- 4:00 p.m.** *Adjournment*
- 7:00 p.m.** *Conference dinner for registrants, faculty and guests – Costume Optional!*
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11th Annual Nemaclin International Asthma Conference

Sunday, October 30, 2016

7:30 a.m. *Registration/Continental Breakfast (Visit Exhibits)*

8:00 a.m. Opening Remarks and Introduction
Deborah Gentile, MD

Symposium on Gut and Lung Microbiome

Symposium Chair: Jay Kolls, MD

- 8:10 a.m.** The Early Life Gut Microbiome: The Link between Asthma-Related Risk Factors and Disease?
Christine Cole Johnson, PhD, MPH
- 8:30 a.m.** How Gut Microbes Alter the Risks of RSV Infections and Asthma in Mice and Men
Dennis R. Ownby MD
- 8:50 a.m.** Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**
- 9:10 a.m.** *Break (Visit Exhibits)*
- 9:40 a.m.** COPD: Influence of the micro- and mycobiomes
Alison Morris, MD
- 10:00 a.m.** Importance of concomitant chronic diseases in severe exacerbations of asthma and COPD
Leonard M. Fabbri, MD, FERS
- 10:20 a.m.** Discussion **Led by Chief Discussant Thomas A. E. Platts-Mills, MD, PhD, FRS**
- 10:40 a.m.** **David P. Skoner, MD, Medical Survivor**
- 11:20 a.m.** *Closing Remarks/Adjournment*
Giovanni Piedimonte, MD

Accreditation

Physicians



Allegheny General Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Allegheny General Hospital designates this live activity for a maximum of *13.5 AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses

For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credits™* issued by organizations accredited by the ACCME

Designation of credits for non-physicians

Allegheny General Hospital certifies participation in this educational activity, which has been designated for a maximum of *13.5 AMA PRA Category 1 Credits™*.

Credit Breakdown

| | |
|----------------------|----------------------------------|
| Friday, October 28 | 5.0 AMA PRA Category 1 Credits™ |
| Saturday, October 29 | 5.75 AMA PRA Category 1 Credits™ |
| Sunday, October 30 | 2.75 AMA PRA Category 1 Credits™ |

Location, Directions and Accommodations

Nemacolin Woodlands Conference Center Farmington, Pennsylvania

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

A block of rooms has been reserved at Nemacolin Woodlands at the special conference rate of \$159.00 + tax single/double occupancy for lodge room and \$209.00 + 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 Allegheny General Hospital 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 27, 2016. After this date, reservations will be accepted on space availability and at the prevailing rate.

Activities

Nemacolin Asthma Conference Dinner Saturday Evening, 7:00-10:00 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. Please RSVP on the registration form. Tickets will be with your registration packet. Halloween costumes encouraged but optional!

Maci's Mile

Maci's TEAMS is pleased to announce the 2nd Maci's Mile, held during the weekend of the annual Nemacolin International Asthma Conference. The race is a one mile run/walk hosted by Maci's TEAMS, a non-profit organization whose mission is to keep children on commonly-used allergy and asthma medications safe by educating parents, patients and healthcare practitioners about proper diagnosis, medication doses and side effects. Please visit their website (www.macisteam.org) to view a special video about their mission. The goal of the race is to raise awareness about the need for medication safety education and to raise funds for the creation of online safety-related CME courses for health care practitioners and patient education.

Race Information

General Information

Maci's Mile will be a one-mile walk/run through the zoo at Nemacolin Woodlands Resort on Friday, October 28th. Runners will start at 4:00 PM and walkers will start five minutes after the runners at 4:05 PM.

Registration and Fees

Participants can sign up at the Maci's TEAMS exhibit booth or at the race. There will be no fee to enter, but participants will be encouraged to make an optional donation to Maci's TEAMS.

Additional Information

For additional information, contact the Continuing Medical Education office by calling **412.359.4952** or by e-mail: rmiglior@wpahs.org.

Please visit the Nemaacolin Asthma Conference Web site at www.ahn.org/nemaacolin-asthma for conference updates.

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 24, 2016. After this date, refunds will not be made. Fees will not be refunded for failure to attend.

Allegheny General Hospital 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: \$425 Physicians

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

(* must include verification letter from Chief of Service)

Deadline: October 24, 2016

(After this date, registrations will be taken on a space available basis.)

To Register: Telephone registrations are not accepted. To register online or to download a brochure please visit www.aghcme.org; select Course Schedule from the left menu and scroll down to locate the conference. To mail or fax your registration, please complete the registration form and return it with the registration fee to:

Continuing Medical Education
Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pennsylvania 15212-4772

412.359.4952

412.359.8218 Fax

The preferred method of payment is VISA, MasterCard, American Express or Discover; however, checks will be accepted made payable to *Allegheny General Hospital CME*.

Eleventh Annual Nemaclin International Asthma Conference

Registration Form

PLEASE INDICATE: _____ # Adults attending Saturday Dinner @ \$45.00

_____ # Children attending Saturday Dinner @ \$15.00

NAME

DEGREE

AFFILIATION

ADDRESS

CITY

STATE

ZIP

TELEPHONE ()

E-MAIL ADDRESS

If you require assistance with hearing, vision or mobility to make this conference accessible to you, please check this box and contact the CME office at **412.359.4952** at least two weeks prior to the conference date.

METHOD OF PAYMENT: Credit Card
 Check

CREDIT CARD TYPE: Visa
 MasterCard
 American Express
 Discover

TOTAL AMOUNT

CREDIT CARD #

EXP. DATE

NAME ON CARD

SIGNATURE*

** By signing this form, I authorize Allegheny General Hospital to charge my credit card for the above amount. My signature also indicates that I will not dispute this charge in the future through my credit card company.*

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Please visit the Nemacolin Asthma Conference Web site at www.ahn.org/nemacolin-asthma for conference updates.