Tenth Annual Nemacolin International Asthma Conference
An Interactive Forum on Patient Care, Therapy and Research

Friday through Sunday, October 30 – November 1, 2015
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

Allegheny Health Network
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 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:

- Describe the long-term evolution of our understanding of asthma pathogenesis and treatment
- Describe unique aspects of severe asthma
- Describe new phenotypes of asthma
- Describe and understand the process of drug development for asthma
- Identify factors that contribute to the urban asthma epidemic and severe asthma in children
- Describe dietary and environmental influences on asthma inception and severity
- Differentiate chronic obstructive pulmonary disease (COPD) from asthma and other lung diseases
- Use biomarkers to predict therapeutic responses in asthma
- Prescribe optimal therapy for patients with asthma and COPD considering efficacy and safety
- Prescribe personalized immunomodulatory therapy for asthma
- Understand the roles of allergy and viruses in asthma
- Identify responders to Bronchial Thermoplasty
- Translate recent research findings into approaches to patients in clinical practice
- Anticipate future research that will impact our understanding and treatment of 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
Professor of Medicine
Temple University School of Medicine
Director of Research
Division of Allergy, Asthma and Immunology
Department of Medicine
Allegheny Health Network
Pittsburgh, Pennsylvania

Giovanni Piedimonte, MD, FAAP, FCCP
The Steven and Nancy Calabrese Chair for Excellence in Pediatric Care, Research and Education
Professor and Chair of Pediatrics, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
Chairman, Cleveland Clinic Pediatric Institute
Physician-in-Chief, Cleveland Clinic Children’s Hospital
President, Cleveland Clinic Children’s Hospital for Rehabilitation
Cleveland, Ohio

David P. Skoner, MD
Professor of Medicine
Temple University School of Medicine
Director, Division of Allergy, Asthma and Immunology
Department of Medicine
Allegheny Health Network
Pittsburgh, Pennsylvania

Sally E. Wenzel, MD
Professor of Medicine
Director, University of Pittsburgh Asthma Institute
Subsection Chief of Allergy
Pulmonary, Allergy and Critical Care Medicine
Pittsburgh, Pennsylvania

Honorary Conference Director
Paul O’Byrne MB, FRCP(C), FRSC,
EJ Moran Campbell Professor and Chair,
Department of Medicine,
Michael G DeGroote School of Medicine,
McMaster University
Ontario, Canada

Fellows Program Director
Reynold A. Panettieri Jr., MD
Robert L. Mayock and David A. Cooper Professor of Medicine
University of Pennsylvania Perelman School of Medicine
Adjunct Professor of Medicine, Wistar Institute
Philadelphia, Pennsylvania

Session Moderator
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
Pittsburgh, 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

Faculty
N. Franklin Adkinson, Jr., MD
Professor of Medicine and Program Director
Graduate Training Program in Clinical Investigation
Associate TP Director, Allergy-Immunology
Johns Hopkins Asthma & Allergy Center
Baltimore, Maryland

Elisabeth Bel, MD, PhD
Professor, Head of Department of Pulmonology
Academic Medical Centre, University of Amsterdam
Amsterdam, the Netherlands

Don Bukstein, MD
Allergy, Asthma and Sinus Center Milwaukee
and TeleHealth Allergy, Sinus and Asthma Physicians (Tele-ASAP)
Milwaukee, Wisconsin

William W. Busse, MD
Professor of Medicine
Allergy, Pulmonary and Critical Care Medicine
University of Wisconsin School of Medicine and Public Health
Madison, Wisconsin

Bradley E. Chipps, MD
Capital Allergy & Respiratory Disease Center
Sacramento, California
Faculty (cont.)

Charles G Irvin, PhD, FERS
Vice Chairman for Research
Department of Medicine
Director, Vermont Lung Center
Professor, Departments of Medicine and Molecular Physiology & Biophysics
Burlington, Vermont

Fernando Holguin, MD MPH
Associate Director, Asthma Institute
University of Pittsburgh
Pittsburgh, Pennsylvania

David M. Mannino, MD
Professor and Chair
Department of Preventive Medicine and Environmental Health
University of Kentucky College of Public Health
Lexington, Kentucky

Hassan H. Ramadan, MD, MSc, FACS
Professor and Chair
Program Director
Department of Otolaryngology H&N
Surgery Director, Sinus Center
West Virginia University
Morgantown, West Virginia

Harald Renz, MD
Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics
Philipps University Marburg
University Hospital Giessen and Marburg GmbH
Marburg, Germany

Jonathan M. Spergel, MD, PhD
Stuart Starr Professor of Pediatrics
Chief, Allergy Section
Division of Allergy-Immunology
The Children's Hospital of Philadelphia
Perelman School of Medicine at University of Pennsylvania

Padmaja Subbarao, MD, MSc
Clinician-Scientist, Co-Director CHILD Study
Director, Pulmonary Function Laboratory
Physiology & Experimental Medicine & Division of Respirology
Department of Pediatrics
The Hospital for Sick Children
University of Toronto
Toronto, Canada

Faculty (cont.)

Scott T. Weiss MD, MS
Professor of Medicine
Harvard Medical School
Director, Partners Personalized Medicine
Partners Health Care
Associate Director, Channing Division of Network Medicine
Brigham and Women's Hospital
Boston, Massachusetts

Discussants

Don Bukstein, MD
Allergy, Asthma and Sinus Center Milwaukee and TeleHealth Allergy, Sinus and Asthma Physicians (Tele-ASAP)
Milwaukee, Wisconsin

Bradley E. Chipps, MD
Capital Allergy & Respiratory Disease Center
Sacramento, California

David M. Lang, MD
Department Chair, Allergy and Clinical Immunology
Cleveland Clinic
Cleveland, Ohio

Anju Peters, MD
Professor of Medicine
Northwestern University
Feinberg School of Medicine
Division of Allergy-Immunology
Evanston, Illinois

Hassan H. Ramadan, MD, MSc, FACS
Professor and Chair
Program Director
Department of Otolaryngology H&N
Surgery Director, Sinus Center
West Virginia University
Morgantown, West Virginia

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).
10th Annual Nemacolin Asthma Conference
Session Chair: Deborah Gentile, MD
Friday, October 30, 2015

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

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

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

9:20 a.m. STARS Project in Pittsburgh
Deborah Gentile, MD

9:40 a.m. Sinusitis and Asthma in Children
Hassan H. Ramadan, MD

10:00 a.m. Discussion

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

11:10 a.m. Break and Refreshments (Visit Exhibits)

Asthma, the Glorious Past

11:30 a.m. Philip Fireman, MD Lecture
Allergen-Induced Asthma
Paul O’Byrne, MB, FRCP(C), FRSC

12:00 p.m. Pulmonary Physiology
Charles G. Irvin, PhD, FERS

12:20 p.m. Industry sponsored lunch or lunch on your own (Not for credit)
Bradley Chipps, MD – Genentech

1:20 p.m. Immunotherapy for Allergic Asthma
N. Franklin Adkinson, Jr., MD

1:40 p.m. Discussion

1:55 p.m. Studies of asthma genetics have improved our understanding of asthma pathobiology
PRO: Scott T. Weiss, MD
CON: William W. Busse, MD

2:40 p.m. Adjournment
10th Annual Nemacolin Asthma Conference
Session Chair: Sally E. Wenzel, MD and Paul O’Byrne, MB, FRCP(C), FRSC
Saturday, October 31, 2015
Asthma Present

7:00 a.m. Industry sponsored breakfast or breakfast on your own (Not for credit)
Marc Riedl, MD– Salix

7:30 a.m. Registration

7:55 a.m. Opening Remarks
David P. Skoner, MD

8:05 a.m. Opening Remarks and Introductions
Sally E. Wenzel, MD & Paul O’Byrne, MB, FRCP(C), FRSC

8:10 a.m. The Allergy Epidemics 1870-2010
Thomas A. E. Platts-Mills, MD

Mini-Symposium on Asthma Disparities
Moderator: Jay K. Kolls, MD

8:30 a.m. Health Disparities, The Inner City Asthma Consortium
William W. Busse, MD

8:50 a.m. Gilbert Friday Memorial Lecture
Vitamin D and asthma prevention (VDAART Study)
Scott T. Weiss, MD

9:35 a.m. Keynote Lecture
Development of asthma early in life and epigenetic regulation
Harald Renz, MD

10:20 a.m. Discussion
Led by Chief Discussant Thomas A. E. Platts-Mills, MD

10:35 a.m. Break (Visit Exhibits)

Mini-Symposium on the Asthma-COPD Overlap Syndrome (ACOS)
Moderator: Jay K. Kolls, MD

10:55 a.m. Heterogeneity of ACOS
Elisabeth Bel, MD, PhD

11:15 a.m. Irreversible airway obstruction in asthma: what we lose, we lose early
Bradley E. Chipps, MD

11:35 a.m. ACOS
David M. Mannino, MD

11:55 a.m. Bronchial Thermoplasty – The Science and Identification of Responders
Reynold A. Panettieri, MD

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

12:30 p.m. Industry sponsored lunch or lunch on your own (Not for credit)
David Lang, MD – Genentech
Saturday, October 31, 2015 (cont.)

**Mini-symposium on Diet, Environment and Asthma**

Moderator: Jay K. Kolls, MD

1:30 p.m. Understanding obesity and asthma severity through metabolic
dysregulation not increased inflammation
Fernando Holguin, MD

1:50 p.m. The Canadian Healthy Infant Longitudinal Development (CHILD) Study:
developmental origins of allergy and asthma
Padmaja Subbarao, MD, MSc

2:10 p.m. Eosinophilic Esophagitis and Asthma
Jonathan M. Spergel, MD, PhD

2:30 p.m. Discussion
Led by Chief Discussant Thomas A. E. Platts-Mills, MD

2:45 p.m. Airway neutrophils are an important cause of asthma exacerbations.
PRO: Sally E. Wenzel, MD
CON: Elisabeth Bel, MD, PhD

3:30 p.m. Closing Remarks/Adjournment

7:00 p.m. Conference dinner for registrants, faculty and guests – Costume
Encouraged but Optional!
### Asthma Future

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 7:00 a.m. | Industry sponsored breakfast or breakfast on your own (Not for credit)  
Anju Peters, MD – Greer Laboratories |
| 7:30 a.m. | Registration/Continental Breakfast (Visit Exhibits)                  |
| 8:00 a.m. | Opening Remarks and Introductions  
Giovanni Piedimonte, MD |
| 8:10 a.m. | Severe Asthma and UBIOPRED Results  
Elisabeth Bel, MD, PhD |
| 8:30 a.m. | Drug development in asthma (Not for Credit)  
Heleen Scheerens, PhD – Genentech |
| 8:50 a.m. | Discussion  
Led by Chief Discussant Thomas A. E. Platts-Mills, MD |
| 9:00 a.m. | Break (Visit Exhibits)                                               |
| 9:20 a.m. | Respiratory Viruses and Asthma: Will Emerging Viral Infections Change the World?  
Giovanni Piedimonte, MD |
| 9:40 a.m. | Update on Phenotypes  
Sally E. Wenzel, MD |
| 10:00 a.m. | Prevention of asthma and atopic disease-what does the future hold?  
Don Bukstein, MD |
| 10:20 a.m. | Discussion  
Led by Chief Discussant Thomas A. E. Platts-Mills, MD |
| 10:35 a.m. | David P. Skoner, MD, Medical Survivor |
| 11:20 a.m. | Closing Remarks/Adjournment  
Philip Fireman, MD; 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 12.5 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 12.5 AMA PRA Category 1 Credits™.

Credit Breakdown

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<tr>
<th>Date</th>
<th>Credits</th>
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<tr>
<td>Friday, October 30</td>
<td>4.5 AMA PRA Category 1 Credits™</td>
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<tr>
<td>Saturday, October 31</td>
<td>5.5 AMA PRA Category 1 Credits™</td>
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<tr>
<td>Sunday, November 1</td>
<td>2.5 AMA PRA Category 1 Credits™</td>
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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 $149.00 + tax single/double occupancy for lodge room and $199.00 + 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!
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!

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 Nemacolin Asthma Conference Web site at www.ahn.org/nemacolin-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 23, 2015. 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 23, 2015
(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.aghcmee.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.
**Tenth Annual Nemacolin 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 #**

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**EXP. DATE**

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**NAME ON CARD**

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**SIGNATURE**

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