

6TH INTERNATIONAL

ILO, UPPER AND LOWER AIRWAY CONFERENCE: THE CONCEPT OF ONE AIRWAY

JUNE 13-14, 2024

WYNDHAM UNIVERSITY CENTER, PITTSBURGH, PA

COURSE DESCRIPTION

The 6th International ILO, Upper and Lower Airway Conference will provide a comprehensive approach to the evaluation and management of complex and overlapping respiratory symptoms of the Upper, Middle (Larynx), and Lower Airways. The world experts in the field will share their clinical management pearls and new diagnostic methods (including continuous laryngoscopy with exercise and provocation) to help make a timely and correct diagnosis. The conference will feature presentations and interactive multidisciplinary workshops by specialists in Pulmonary Medicine, Allergy/Immunology, Otolaryngology, Speech and Language Pathology, Sleep Medicine, Sports Medicine, and Gastroenterology.

OVERALL LEARNING OBJECTIVES (SESSION OBJECTIVES CAN BE FOUND IN THE AGENDA)

- Identify the overlap in symptoms and interaction between allergic and sinonasal disease, hypersensitive larynx, GERD, chronic cough, and asthma in the outpatient setting.
- Differentiate exercise-induced laryngeal obstruction from other causes of exertional dyspnea in adolescent and adult patients.
- Explain when and how to perform continuous laryngoscopy with exercise and/or provocation in a hands-on workshop.
- Describe the advanced speech and language pathology treatment approaches for ILO, EILO, and chronic cough.

TARGET AUDIENCE

Physicians, Physician Assistants, Respiratory Therapists, Nurses, Speech Pathologists, and other healthcare or academic professionals with a major clinical or research interest in otolaryngology or respiratory medicine.

REGISTRATION INSTRUCTIONS

Visit <http://cce.upmc.com> to register. You must create an account. For help creating an account visit <http://cce.upmc.com/FAQ>.

Registration Fees:

Early Registration (before May 25)

Physician (\$400)

Non-physician (\$300)

Medical resident, Fellows, Students (\$100)

Late Registration (after May 25)

Physician (\$450)

Non-physician (\$350)

Medical resident, Fellows, Students (\$150)

All cancellations must be in writing and sent to us by email to dobranksyta@upmc.edu. No telephone cancellations will be accepted. Tuition for cancellations postmarked or date stamped before May 1 will be refunded in full in the form of the original payment method. After May 1, a \$50 administrative fee will be assessed, the remaining amount refunded, and no refunds will be made after May 31, 2024.

COURSE COMPLETION REQUIREMENTS

Participants are expected to be present for the entire program and complete the course evaluation. Individuals who are not present for the full program will not be recommended for ASHA CEUs. No partial credit will be provided.

ACCOMMODATION POLICY

If you require a disability accommodation, please email dobranksyta@upmc.edu at least 10 days prior to the start date.

COMPLAINT POLICY

Complaints of the course will be addressed via email correspondence to Melinda Splane, splanemj@upmc.edu.

AGENDA

Thursday, June 13, 2024

7:00 AM 8:00 AM **Registration, Refreshments, and Exhibits**

8:00 AM 8:15 AM **Welcome and Opening Remarks**
Andrej Petrov, MD; University of Pittsburgh

8:15 AM 8:30 AM **Introduction**

SESSION 1: EXERTIONAL DYSPNEA

Moderator: Jessica Bon, MD, MS, University of Pittsburgh

Dr. Bon has no relevant financial or nonfinancial relationships to disclose.

8:30 AM - 10:35 AM (125 min)

Learning Objective: Summarize different respiratory patterns of the upper airway.

8:30 AM 8:45 AM **Evaluating the Larynx**
J. Tod Olin, MD, MSCS University of Colorado Anschutz Medical Campus
Dr. Olin is a paid consultant for the United States Olympic and Paralympic Committee, Medint and Design.ADG. Dr. Olin receives no financial compensation as a consultant for USA Swimming and US Ski and Snowboard.

8:45 AM 9:00 AM **Evaluating the Lower Airways**
Frank Scieurba, MD University of Pittsburgh
Dr. Scieurba has no relevant financial or nonfinancial relationships to disclose.

9:00 AM 9:15 AM **Evaluating Environmental and Allergic Factors**
Basil Kahwash, MD Vanderbilt University Medical Center
Dr. Kahwash is a clinical trial speaker for GSK and Astra Zeneca. Dr. Kahwash has no relevant nonfinancial relationships to disclose.

9:15 AM 9:30 AM **Evaluating Dysautonomia, POTS, and Long-Covid**
Joshua E. Levenson, MD University of Pittsburgh
Dr. Levenson has no relevant financial or nonfinancial relationships to disclose.

9:30 AM 9:45 AM **Evaluating Breathing Patterns**
Claudio Milstein, PhD Cleveland Clinic
Dr. Milstein has no relevant financial or nonfinancial relationships to disclose.

9:45 AM 10:00 AM **Vortex Whistle**
Shaheen Awan, PhD, CCC-SLP University of Central Florida
Dr. Awan is Primary Investigator for NIDCD #1R01DC020799-01A1. Dr. Awan has no relevant nonfinancial relationships to disclose.

10:00 AM 10:15 AM **New Diagnostic Tools**
John Dickinson, PhD University of Kent, UK
Dr. Dickinson has no relevant financial or nonfinancial relationships to disclose.

10:15 AM 10:35 AM **Q & A (Moderator)**

10:35 AM 11:00 AM **Refreshment Break and Exhibits**

11:00 AM 11:15 AM **Introduction**

SESSION 2: COUGH, ILO AND COMORBIDITIES-ASSESSING THE OVERLAP

Moderator: Thomas Carroll, MD, Harvard Medical School

Dr. Carroll receives consulting fees for Pentax Medical, Ambu, and GSK. Dr. Carroll; had stock options and is on the scientific advisory board for N-Zyme Biomedical, Sofregen Medical; and receives royalties from Plural Publishing. Dr. Carroll has no relevant financial or nonfinancial relationships to disclose.

11:15 AM – 12:50 PM (95 minutes)

Learning Objective: Compare and contrast different upper airway disorder.

11:15 AM 11:30 AM **Laryngeal Dysfunction, ILO, and Cough**
Anne Vertigan, PhD University of Newcastle, Australia
Dr. Vertigan has no relevant financial or nonfinancial relationships to disclose.

11:30 AM 11:45 AM **Nose, Sinuses, Allergens, ILO, and Cough**
Jonathan Bernstein, MD University of Cincinnati College of Medicine
Dr. Bernstein has no relevant financial or nonfinancial relationships to disclose.

11:45 AM 12:00 PM **GERD, ILO, and Cough** *Libby J. Smith, DO University of Pittsburgh*
Dr. Smith has no relevant financial or nonfinancial relationships to disclose.

12:00 PM 12:15 PM **Sleep Apnea and ILO** *Patrick Strollo, MD University of Pittsburgh*
Dr. Strollo has no relevant financial or nonfinancial relationships to disclose.

12:15 PM 12:30 PM **How to Measure Laryngeal Constriction**
Rita Patel, PhD Indiana University Bloomington
Dr. Patel is Editor in Chief American Journal of Speech-Language Pathology and is training content creator for North Speech Services. Dr. Patel is a member (unpaid) of the ASH Foundation Board of Trustees.

12:30 PM 12:50 PM **Q & A**

12:50 PM 1:50 PM **Lunch/Exhibits**

1:50 PM 2:00 PM **Introduction**

SESSION 3: COMORBIDITIES, CONTRIBUTORY, AND MIMICKING CONDITIONS

Moderator: Sara Van Meerbeke, MD, University of Pittsburgh

Dr. Van Meerbeke has no relevant financial or nonfinancial relationships to disclose.

2:00 PM – 3:35 PM (95 minutes)

Learning Objective: Explain the symbiotic relationship between breathing and emotions.

2:00 PM 2:15 PM **ILO and Asthma**
Paul Leong, MBBS, MPH, PhD Monash University, Australia
Dr. Leong has no relevant financial relationships to disclose. Dr. Leong is a board member of Global Initiative for ILO.

2:15 PM 2:30 PM **EILO and Comorbidities** *Hege Clemm, MD, PhD University of Bergen, Norway*
Dr. Clemm has no relevant financial relationships to disclose. Dr. Clemm is Chair of Board (no payment) for the Global Initiative of ILO (GILO) – non-profit organization.

2:30 PM 2:45 PM **ILO and Allergic Laryngeal Comorbidities**
David Khan, MD, University of Texas Southwestern Medical Center, Dallas
Dr. Khan has no relevant financial or nonfinancial relationships to disclose.

2:45 PM	3:00 PM	ILO and Psychology <i>Jackie Gartner-Schmidt, PhD, CCC-SLP Carlow University, Pittsburgh</i> <i>Dr. Gartner-Schmidt has no relevant financial or nonfinancial relationships to disclose.</i>
3:00 PM	3:15 PM	How to Diagnose ILO During Sleep? <i>Thomas M. Kaffenberger, MD University of Pittsburgh</i> <i>Dr. Kaffenberger is a consultant for Nyxoah SA and Inspire Medical Systems, inc. Dr. Kaffenberger has no relevant nonfinancial relationships to disclose.</i>
3:15 PM	3:35 PM	Q & A
3:35 PM	3:50 PM	Refreshment Break and Exhibits
3:50 PM	4:00 PM	GILO Announcement <i>Hege Clemm, MD, PhD</i>
4:00 PM	4:30 PM	PRO & CON DEBATE: Speech Therapy/Respiratory Retraining vs Medical Therapy as the 1st Line Treatment for the Hypersensitive Larynx, ILO, and Chronic Unexplained Cough <i>Learning Objective: Compare and contrast the pros and cons of respiratory retraining and medication.</i> <i>Moderator: Blair Stone, MD. University of Pittsburgh</i> <i>Dr. Stone has no relevant financial or nonfinancial relationships to disclose.</i> Emil Walsted, MD, PhD Bispebjerg University Hospital, Denmark VS Adrianna Shembel, PhD, CCC-SLP University of Texas at Dallas <i>Dr. Walsted has no relevant financial or nonfinancial relationships to disclose.</i> <i>Dr. Shembel has no relevant financial or nonfinancial relationships to disclose.</i>
4:30 PM	5:15 PM	PANEL DISCUSSION: Ask the Experts About Your Difficult Cases <i>Learning Objective: Assess and rank order information relevant to disentangling symptoms and signs of upper airway disorders.</i> <i>Moderators:</i> <i>John Robertson, MD, University of Texas</i> <i>Dr. Robertson has no relevant financial or nonfinancial relationships to disclose.</i> <i>Jemma Haines, MBE FRCSLT, BSc (Hons) (UK)</i> <i>Dr. Haines has no relevant financial relationships to disclose. Dr. Haines is Vice-Chair of Global Initiative for Inducible Laryngeal Obstruction and Trustee for Board of Directors for the Royal College of Speech and Language Therapists, UK</i>
5:15 PM		Adjournment

Friday, June 14, 2024

7:30 AM	7:50 AM	Registration, Refreshments, and Exhibits
7:50 AM	8:00 AM	Welcome and Introduction <i>Andrej Petrov, MD; University of Pittsburgh</i>

8:00 AM	8:25 AM	<p>Unified Airway: From IgE and Eosinophils to the Next Frontier <i>Learning Objective:</i> Interpret the impact of different types of inflammation on the upper airway.</p> <p><i>Sally Wenzel, MD University of Pittsburgh</i> <i>Dr. Wenzel is Consulting and Principal Investigator on Investigator Initiated Study for Regeneron and is a local investigator on multi-center clinical trial for Amgen. Dr. Wenzel has no relevant nonfinancial relationships to disclose.</i></p>
8:25 AM	8:50 AM	<p>How to Treat Asthma in Amateur and Professional Athletes <i>Learning Objective:</i> Associate ILO as a comorbidity to Asthma.</p> <p><i>J. Tod Olin, MD, MSCS; National Jewish Health, Colorado</i> <i>Dr. Olin is a paid consultant for the United States Olympic and Paralympic Committee, Medint and Design.ADG. Dr. Olin receives no financial compensation as a consultant for USA Swimming and US Ski and Snowboard.</i></p> <p><i>James Hull, PhD, FRCP, FACSM; Royal Brompton Hospital, UK</i> <i>Dr. Hull has no relevant financial or nonfinancial relationships to disclose.</i></p>
8:50 AM	10:20 AM	<p>WORKSHOP 1: ILO/EILO <i>Learning Objective:</i> Compare and contrast ILO and EILO.</p> <p><i>Moderators: Andrej Petrov, MD, University of Pittsburgh</i> <i>Dr. Petrov is on the advisory board for Genentech. Dr. Petrov has no relevant nonfinancial relationships to disclose.</i></p> <p><i>Thomas Halvorsen, PhD, University of Bergen</i> <i>Dr. Halvorsen has no relevant financial or nonfinancial relationships to disclose.</i></p> <p>Continuous Laryngoscopy with Exercise or Provocation Presenters: <i>Emil Walsted, MD, PhD Bispebjerg University Hospital, Denmark</i> <i>Dr. Walsted has no relevant financial or nonfinancial relationships to disclose.</i></p> <p><i>Hege Clemm, MD; University of Bergen, Norway</i> <i>Dr. Clemm has no relevant financial relationships to disclose. Dr. Clemm is Chair of Board (no payment) for the Global Initiative of ILO (GILO) – non-profit organization.</i> <i>James Hull, PhD, FRCP, FACSM; Royal Brompton Hospital, UK</i></p> <p><i>Dr. Hull has no relevant financial or nonfinancial relationships to disclose.</i></p> <p><i>J. Tod Olin, MD, MSCS; University of Colorado Anschutz Medical Campus</i> <i>Dr. Olin is a paid consultant for the United States Olympic and Paralympic Committee, Medint and Design.ADG. Dr. Olin receives no financial compensation as a consultant for USA Swimming and US Ski and Snowboard.</i></p> <p><i>Jemma Haines, MBE FRCSLT, BSc (Hons) (UK)</i> <i>Dr. Haines has no relevant financial relationships to disclose. Dr. Haines is Vice-Chair of Global Initiative for Inducible Laryngeal Obstruction and Trustee for Board of Directors for the Royal College of Speech and Language Therapists,</i> <i>UK</i></p>
10:20 AM	10:35 AM	<p>Refreshment Break and Exhibits</p>

10:35 AM 12:05 PM

WORKSHOP 2: Nose, Sinus, and Asthma

Learning Objective: Predict the impact of the upper airway disorders on the larynx.

Moderators:

Allyson Larkin, MD, University of Pittsburgh

Dr. Larkin has no relevant financial or nonfinancial relationships to disclose.

Rich Ramonell, MD, University of Pittsburgh

Dr. Ramonell has no relevant financial or nonfinancial relationships to disclose.

Refractory Asthma, The Role of Biologics, and Other Treatment Options

Presenters:

Jonathan Bernstein, MD; University of Cincinnati College of Medicine

Dr. Bernstein has no relevant financial or nonfinancial relationships to disclose.

David Khan, MD; University of Texas Southwestern

Dr. Khan has no relevant financial or nonfinancial relationships to disclose.

Sally Wenzel, MD; University of Pittsburgh

Dr. Wenzel is Consulting and Principal Investigator on Investigator Initiated Study for Regeneron and is a local investigator on multi-center clinical trial for Amgen. Dr. Wenzel has no relevant nonfinancial relationships to disclose.

How to Distinguish Asthma from Other Respiratory Conditions

Presenters:

James Hull, PhD, FRCP, FRCGS; Royal Brompton Hospital, UK

Dr. Hull has no relevant financial or nonfinancial relationships to disclose.

Paul Leong, MBBS, MPH, PhD; Monash University, Australia

Dr. Leong has no relevant financial relationships to disclose. Dr. Leong is a board member of Global Initiative for ILO.

Marc Gauthier, MD; University of Pittsburgh

Dr. Gauthier has no relevant financial or nonfinancial relationships to disclose.

Refractory Chronic Rhinosinusitis, The Role of Biologics, and Other Treatment Options

Presenters:

Eric Wang, MD; University of Pittsburgh

Dr. Wang has no relevant financial or nonfinancial relationships to disclose.

David Khan, MD; University of Texas Southwestern

Dr. Khan has no relevant financial or nonfinancial relationships to disclose.

Jonathan Bernstein, MD; University of Cincinnati College of Medicine

Dr. Bernstein has no relevant financial or nonfinancial relationships to disclose.

12:05 PM 12:45 PM

Lunch/Exhibits

12:45 PM 2:35 PM

WORKSHOP 3: SPEECH LANGUAGE PATHOLOGY DISORDERS

Learning Objective: Apply respiratory retraining and cough suppression therapy to Upper Airway Disorders.

*Moderator: Jackie Gartner-Schmidt, PhD, CCC-SLP, University of Pittsburgh
Dr. Gartner-Schmidt receives salary from Carlow University. Dr. Gartner-Schmidt has no relevant nonfinancial relationships to disclose.*

Respiratory Retraining for ILO

*Douglas Roth, CCC-SLP; Brigham & Women's Hospital
Dr. Roth has no relevant financial or nonfinancial relationships to disclose.*

*Adrianna Shembel, PhD, CCC-SLP; University of Texas
Dr. Shembel has no relevant financial or nonfinancial relationships to disclose.*

Respiratory Retraining for EILO

*Emily Nauman, MA, SLP; National Jewish Health
Emily Nauman receives salary from National Jewish Health. Dr. Nauman is a professional member of ASHA Sig 3.*

*J. Tod Olin, MD, MSCS; University of Colorado Anschutz Medical Campus
Dr. Olin is a paid consultant for the United States Olympic and Paralympic Committee, Medint and Design.ADG. Dr. Olin receives no financial compensation as a consultant for USA Swimming and US Ski and Snowboard.*

Cough Suppression Therapy

*James Curtis, PhD, CCC-SLP; Weill Cornell Medical College
Dr. Curtis has no relevant financial or nonfinancial relationships to disclose.*

*Laurie Slovarp, PhD, CCC-SLP; University of Montana
Dr. Slovarp is a paid consultant for Hyfe.ai. Dr. Slovarp has no relevant nonfinancial relationships to disclose.*

Breathing Pattern Disorders

*John Dickinson, PhD; University of Kent Claudio Milstein, PhD; Cleveland Clinic
Dr. Dickinson has no relevant financial or nonfinancial relationships to disclose.*

2:45 PM 4:00PM

WORKSHOP 4: GERD AND AIRWAYS – STATE OF THE ART

Learning Objective: Illustrate how GERD can affect the upper airway.

Moderators:

*Phillip Lamberry, MD, University of Pittsburgh
Dr. Lamberry has no relevant financial or nonfinancial relationships to disclose.*

*Shikha Gupta, MD, University of Pittsburgh
Dr. Gupta has no relevant financial or nonfinancial relationships to disclose.*

Laryngopharyngeal Reflux from the ENT Perspective

*Thomas Carroll, MD; Harvard Medical School
Dr. Carroll receives consulting fees for Pentax Medical, Ambu, and GSK. Dr. Carroll; had stock options and is on the scientific advisory board for N-Zyme Biomedical, Sofregen Medical; and receives royalties from Plural Publishing. Dr. Carroll has no relevant financial or nonfinancial relationships to disclose.*

GERD and Airways from the Pulmonary Perspective

*Christopher Faber, MD; University of Pittsburgh
Dr. Faber has no relevant financial or nonfinancial relationships to disclose.*

GERD, EOE, and Airways from the Gastroenterology Perspective

Kenneth Fasanella, MD; University of Pittsburgh

Dr. Fasanella has no relevant financial or nonfinancial relationships to disclose.

4:00 PM 4:15 PM

The Role of Imaging in Diagnosing ILO

Learning Objective: Explain the role of imaging in diagnosing ILO.

Philip G. Bardin FRACP, PhD; Monash University, Australia

Dr. Bardin receives consulting fees/contracted research for Novartis, Genentech, Sanofi-Regeneron, Astra Zeneca, GSK, Celldex, Allakos, Escient, Jasper, Blueprint, Cogent, Telios, Pharming, Takeda/Shire, CSL Behring, Ionis, Intelia, Biomarin, Kalvista, Roche, Amgen, Biocryst, DB. Dr. Bardin has no relevant nonfinancial relationships to disclose.

4:15 PM 4:45 PM

A Unified Approach to Hypersensitive Larynx

Learning Objective: Describe a unified approach to hypersensitive larynx.

Anne Vertigan, PhD; University of Newcastle, Australia

Dr. Vertigan has no relevant financial or nonfinancial relationships to disclose.

4:30 PM 4:45PM

The Great Future

Learning Objective: Discuss future diagnostic and therapeutic trends in upper airway disorder.

Expert Panel

Philip Bardin, FRACP, PhD; Monash University, Australia

Dr. Bardin receives consulting fees/contracted research for Novartis, Genentech, Sanofi-Regeneron, Astra Zeneca, GSK, Celldex, Allakos, Escient, Jasper, Blueprint, Cogent, Telios, Pharming, Takeda/Shire, CSL Behring, Ionis, Intelia, Biomarin, Kalvista, Roche, Amgen, Biocryst, DB. Dr. Bardin has no relevant nonfinancial relationships to disclose.

Hege Clemm, MD; University of Bergen, Norway

Dr. Clemm has no relevant financial or nonfinancial relationships to disclose.

Jacqueline Gartner-Schmidt, PhD, CCC-SLP; Carlow University

Dr. Gartner-Schmidt has no relevant financial or nonfinancial relationships to disclose.

James Hull, PhD, FRCP, FACSM; Royal Brompton Hospital, UK

Dr. Hull has no relevant financial or nonfinancial relationships to disclose.

Claudio Milstein, PhD; Cleveland Clinic

Dr. Milstein has no relevant financial or nonfinancial relationships to disclose.

J. Tod Olin, MD, MSCS; University of Colorado

Dr. Olin is a paid consultant for the United States Olympic and Paralympic Committee, Medint and Design.ADG. Dr. Olin receives no financial compensation as a consultant for USA Swimming and US Ski and Snowboard.

Anne Vertigan, PhD; University of Newcastle, Australia

Dr. Vertigan has no relevant financial or nonfinancial relationships to disclose.

4:45 PM 5:00 PM

Concluding Remarks

Andrej Petrov, MD; University of Pittsburgh

5:00 PM **Adjournment**

ORGANIZING COMMITTEE DISCLOSURE

NOTE: PRESENTER DISCLOSURES ARE LISTED IN THE AGENDA

Organizing Committee

Andrej Petrov, MD

Course Director

Associate Professor of Medicine
Section Chief of Allergy
Division of Pulmonary, Allergy, Critical Care, and Sleep
Medicine
University of Pittsburgh School of Medicine
Dr. Petrov is on the advisory board for Genentech. Dr. Petrov has no relevant nonfinancial relationships to disclose.

Hege Clemm, MD, PhD

Professor, Department of Clinical Science
University of Bergen, Norway
Dr. Clemm has no relevant financial relationships to disclose. Dr. Clemm is Chair of Board (no payment) for the Global Initiative of ILO (GILO) – non-profit organization.

Garner Faulkner, RPFT

Lead Pulmonary Technologist
UPMC Presbyterian Shadyside
Garner Faulkner has no relevant financial or nonfinancial relationships to disclose.

Summer Forsythe, RN

Comprehensive Lung Center
UPMC Presbyterian Shadyside
Summer Forsythe has no relevant financial or nonfinancial relationships to disclose.

Jackie Garner-Schmidt, PhD, CCC-SLP

Fellow of the American Speech-Language-Hearing
Association
Carlow University
Voice Now, LLC Presentation Effectiveness Training
Dr. Garner-Schmidt receives salary from Carlow University. Dr. Garner-Schmidt has no relevant nonfinancial relationships to disclose.

Kari Petruski, LPN

Comprehensive Lung Center
UPMC Presbyterian Shadyside
Kari Petruski has no relevant financial or nonfinancial relationships to disclose.

Leah Tamburlin, CRNP

Comprehensive Lung Center
UPMC Presbyterian Shadyside
Leah Tumberlin has no relevant financial or nonfinancial relationships to disclose.

Sara Van Meerbeke, MD

Instructor of Medicine
Division of Pulmonary, Allergy, Critical Care and Sleep
Medicine
University of Pittsburgh School of Medicine
Dr. Van Meerbeke has no relevant financial or nonfinancial relationships to disclose.

Karla Yoney, PA-C

Senior Physician Assistant
COVID Recovery Clinic, Comprehensive Lung Center
UPMC Presbyterian Shadyside
Karla Yoney has no relevant financial or nonfinancial relationships to disclose.

ACCREDITATION AND CREDIT DESIGNATION

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physicians

The University of Pittsburgh designates this live activity for a maximum of **13.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing (CNE)

The maximum number of hours awarded for this Continuing Nursing Education activity is **13.75** contact hours.

Physician Assistant (AAPA)

The University of Pittsburgh has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for **13.75** AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

ASHA CE

	<p>ASHA CE APPROVED PROVIDER</p>	<p>UPMC</p> <p>Advanced Level</p> <p>1.3 ASHA CEUs</p>
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