Friday, October 23, 2015

• Prodromal Responses – Detecting the presence of nausea in humans and pre-clinical models
• Acute-to-Chronic Nausea and Vomiting
• Cyclic Vomiting Syndrome Research Symposium
• Poster Session
• Reception and Group Dinner

Saturday, October 24, 2015

• Early-Stage Investigator Symposium
• Clinical Panel Discussion
• Back to the Future – Conference Integration Session
• Cyclic Vomiting Syndrome Adult Guidelines Session

Course Directors
Charles Horn, PhD, University of Pittsburgh School of Medicine
Bill Yates, PhD, University of Pittsburgh School of Medicine

Planning Committee
Richard Gralla, MD, Albert Einstein College of Medicine
Kenneth Koch, MD, Wake Forest School of Medicine
B.U.K. Li, MD, Medical College of Wisconsin
Charles Oman, PhD, Massachusetts Institute of Technology
Henry Parkman, MD, Temple University School of Medicine
Thangam Venkatesan, MD, Medical College of Wisconsin
Susan Wesmiller, PhD, University of Pittsburgh School of Nursing

Location
The University Club
123 University Place
Pittsburgh, PA 15260

Conference Websites
Registration:
https://ceehs.upmc.com/home.jsf
Biology and Control of Nausea and Vomiting Program:
http://emesis2015.com/

Sponsored by:
• National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK).
• Cyclic Vomiting Syndrome Adult Guidelines Session Sponsored by the Cyclic Vomiting Syndrome Association in partnership with the American Neurogastroenterology and Motility Society
• University of Pittsburgh School of Medicine Center for Continuing Education in the Health Sciences
### Conference Objectives

The primary objectives for **Biology and Control of Nausea and Vomiting 2015** are to:

1. Provide a forum for cross-disciplinary exchange of ideas to advance research on the biological mechanisms for nausea and vomiting.
2. Foster interactions for early-stage investigators to present research findings and connect with laboratories and more senior investigators working in the field of nausea and vomiting research.
3. Offer a forum where clinicians who treat patients with nausea and vomiting can exchange information.
4. Produce an overview and discussion of the major unresolved questions in nausea and vomiting biology and provide the latest methodology.
5. Broadly disseminate the findings and consensus of the meeting in peer-review manuscripts published in *Autonomic Neuroscience: Basic and Clinical* (Elsevier).

### Target Audience

**Biology and Control of Nausea and Vomiting 2015** is designed for basic researchers and clinical investigators working in the field of nausea and vomiting. Information provided will also be useful for clinicians needing an up-to-date presentation of treatments for nausea and vomiting, particularly difficult-to-treat cases.

### Schedule

**Day One: Friday, October 23, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Registration, breakfast, and poster setup</td>
</tr>
<tr>
<td>8:00 am</td>
<td>Welcome remarks</td>
</tr>
<tr>
<td>8:10 am</td>
<td><strong>Session 1: Prodromal Responses - Detecting the presence of nausea in humans and animal models</strong></td>
</tr>
<tr>
<td></td>
<td><em>Chairs: Charles Horn, PhD and Bill Yates, PhD – University of Pittsburgh</em></td>
</tr>
<tr>
<td>8:15 am</td>
<td>“Determining the presence of nausea in emetic animals.” – Bill Yates, PhD, University of Pittsburgh</td>
</tr>
<tr>
<td>8:40 am</td>
<td>“Time course of symptoms and signs in motion sickness.” – Charles Oman, PhD, Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>9:05 am</td>
<td>Break</td>
</tr>
<tr>
<td>9:15 am</td>
<td>“Behavioral and physiological signs of visceral malaise in rats.” – Linda Rinaman, PhD, University of Pittsburgh</td>
</tr>
<tr>
<td>9:40 am</td>
<td><strong>Session 2: Acute-to-Chronic Nausea and Vomiting</strong></td>
</tr>
<tr>
<td></td>
<td><em>Chairs: Richard Gralla, MD – Albert Einstein College of Medicine, and Charles Horn, PhD – University of Pittsburgh</em></td>
</tr>
<tr>
<td>9:45 am</td>
<td>“The pathobiology and palliation of acute/chronic chemotherapy-induced nausea and vomiting.” – Aminah Jatoi, MD, Mayo Clinic</td>
</tr>
<tr>
<td>10:10 am</td>
<td>“Hyperemesis in pregnancy - What's new?” – Steve Caritis, MD, University of Pittsburgh</td>
</tr>
<tr>
<td>10:35 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 am</td>
<td>“Biological pathways underlying nausea and vomiting in gastroparesis.” – William Hasler, MD, University of Michigan</td>
</tr>
<tr>
<td>11:10 am</td>
<td>“Cellular basis for gastroparesis” – Gianrico Farrugia, MD, Mayo Clinic</td>
</tr>
<tr>
<td>11:45 am</td>
<td>Group photo</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Lunch – University Club</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Plenary lecture: “Anti-Emetic Research: Showing superiority over older drugs is key.” – John Rudd, PhD, The Chinese University of Hong Kong</td>
</tr>
<tr>
<td>2:15 pm</td>
<td><strong>Session 3: Cyclic Vomiting Syndrome Research Symposium</strong></td>
</tr>
<tr>
<td></td>
<td><em>Chairs: Thangam Venkatesan, MD – Medical College of Wisconsin, and Klaus Bielefeldt, MD, PhD – University of Pittsburgh</em></td>
</tr>
<tr>
<td>2:20 pm</td>
<td>“Cyclic vomiting syndrome: Phenotypic features to be explained by a pathophysioligic model(s).” – B.U.K. Li, MD, Medical College of Wisconsin</td>
</tr>
<tr>
<td>2:45 pm</td>
<td>“Autonomic Control in Nausea – a mechanism-based analysis.” – Thomas Chelimsky, MD, Medical College of Wisconsin</td>
</tr>
<tr>
<td>3:10 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:20 pm</td>
<td>“Adult cyclical vomiting syndrome: A disorder of allostatic regulation?” – David Levinthal, MD, PhD, University of Pittsburgh</td>
</tr>
<tr>
<td>3:45 pm</td>
<td>“Neuroimaging altered brain circuitries and neurotransmitter levels in cyclic vomiting syndrome.” – Vitaly Napadow, PhD, Massachusetts General Hospital</td>
</tr>
<tr>
<td>4:15 pm</td>
<td><strong>ADJOURNMENT OF ORAL SESSIONS</strong></td>
</tr>
<tr>
<td>4:20 pm</td>
<td>Scientific Poster Session</td>
</tr>
<tr>
<td>6:30 pm</td>
<td>Reception and Dinner</td>
</tr>
</tbody>
</table>
Day Two: Saturday, October 24, 2015

7:00 am  Breakfast

8:00 am  Session 4: Early-Stage Investigator Symposium
         *Chairs: Charles Horn, PhD and Bill Yates, PhD – University of Pittsburgh*

8:05 am  “Identification of risk factors for adverse outcomes and recurrence of hyperemesis gravidarum (HG).” – Aromalyn Magtira, PhD, University of California, Los Angeles

8:20 am  “The intracellular calcium mechanism involved in emesis in the least shrew.” – Weixia Zhong, PhD, Western University of Health Sciences

8:35 am  “Hindbrain-forebrain communication in cisplatin-induced malaise.” – Amber Alhadeff, PhD, University of Pennsylvania

8:50 am  Break

9:00 am  “Vagal function and CNS control for nausea and their responses to transcutaneous electrical acupuncture in patients with Diabetic Gastroparesis.” – Gengqing Song, MD, PhD, Texas Tech University, Health Sciences Center

9:15 am  “Endocannabinoid suppression of rat conditioned gaping: Insights into the role of visceral insular cortex 2-AG during acute nausea.” – Martin Sticht, PhD, University of Calgary, Canada

9:35 am  Session 5: Clinical Panel Discussion – Difficult Cases
         *Chairs: Henry Parkman, MD – Temple University School of Medicine, and Kenneth Koch, MD – Wake Forest University School of Medicine*

9:40 am  “Management options for refractory nausea and vomiting in a patient with gastroparesis.” – Richard McCallum, MD, Texas Tech University, Health Sciences Center

9:55 am  “Integrative medicine approach to managing nausea and vomiting.” – Linda Lee, MD, Johns Hopkins University

10:10 am  “Finding Relief: Novel therapies for nausea in gastroparesis.” – Linda Nguyen, MD, Stanford University

10:25 am  Break

10:35 am  “Why patients still experience postoperative nausea and vomiting?” – Piotr Janicki, MD, Pennsylvania State University

10:50 am  “Chemotherapy-induced nausea and vomiting.” – Richard Gralla, MD, Albert Einstein College of Medicine

11:10 am  Back to the future – conference overview
          *Moderated by Charles Horn, PhD, Bill Yates, PhD, and Planning Committee – University of Pittsburgh*
          (A synopsis of the major ideas presented during the conference and open discussion).

12:00 pm  CONFERENCE ADJOURNMENT
          Lunch – local options on own

1:30 pm  Session 6: Cyclic Vomiting Syndrome Adult Guidelines Session
         *Chairs: Thangam Venkatesan, MD and B.U.K Li, MD – Medical College of Wisconsin*

4:30 pm  GUIDELINE SESSION ADJOURNMENT
Locations

The Biology and Control of Nausea and Vomiting 2015 Conference will be held at The University Club on Friday, October 23, and Saturday, October 24. The University Club is located at 123 University Place, Pittsburgh, PA 15260.

Visit [www.uc.pitt.edu](http://www.uc.pitt.edu) or call (412-648-8213) for directions or additional information about the University Club.

Abstracts/Posters

Nausea and emesis research abstract submissions are encouraged from all conference attendees. While novel research is preferred, abstracts submitted at previous meetings are welcome.

- Abstract length is limited to 500 words
- No abstracts will be published without author agreement
- A 4x8 poster space will be reserved for all accepted abstracts
- All abstracts are due by September 15, 2015. No abstract acceptance or poster space will be guaranteed after September 15.

Accommodations

The host for the Biology and Control of Nausea and Vomiting 2015 is the Wyndham Pittsburgh University Center, located at 100 Lytton Avenue, Pittsburgh, PA 15213. This hotel is approximately two blocks from The University Club. The discounted room rate is $140/night or $170/night plus taxes and fees.

- To reserve your room online, visit [www.wyndhampittsburghuniversitycenter.com](http://www.wyndhampittsburghuniversitycenter.com), click on “Reservations” and then “Special Rates &Codes.” The conference group code is 10226841NV.
- By telephone, call 412-682-6200 or 800-UNIVCTR and say that you are with the “Biology and Control of Nausea and Vomiting 2015” group or reference the group code.
- Room availability and pricing will not be guaranteed after October 2, 2015.

Parking

Conference parking is not provided. Nearby parking is available at the Soldiers & Sailors garage (Bigelow Blvd.), the O’Hara garage near the Western Psychiatric Institute & Clinic of UPMC (O’Hara St.), or the Wyndham Pittsburgh University Center garage. To see these and other University of Pittsburgh parking options, visit [www.pts.pitt.edu/parking/maps](http://www.pts.pitt.edu/parking/maps).

Transportation

Shuttle bus and taxi transportation may be arranged from the Pittsburgh International Airport (PIT). Public transportation using the “28X” bus is a cost-effective transportation alternative at $3.75 each way. This bus leaves from the airport’s lower level door #6 and will travel within three blocks of the conference location (Oakland/Atwood stop). More information about the 28X may be found at [www.portauthority.org/PAAC/apps/pdfs/28X.PDF/](http://www.portauthority.org/PAAC/apps/pdfs/28X.PDF/).

Americans with Disabilities Act Information

Participation by all individuals is encouraged. Advance notification of any special needs will help us to provide better service. Please notify us of any special needs at least two weeks in advance of the program by calling (412-623-7701) or emailing polij@upmc.edu.

Continuing Education Credit

The University of Pittsburgh School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 11.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals are awarded 1.1 continuing education units (CEU’s) which are equal to 11.2 contact hours.

For More Information

Jessica Poli
University of Pittsburgh Cancer Institute
Hillman Cancer Center – Basic Research
5117 Centre Avenue
Suite, G17
Pittsburgh, PA 15213

Telephone: (412) 623-7701
Fax: (412) 623-1119
Email: polij@upmc.edu

The University of Pittsburgh is an affirmative action, equal opportunity institution.