This one-day course is designed to present the latest developments in research and clinical care for very early-onset inflammatory bowel disease (VEO-IBD) and pediatric IBD. Participants will receive a comprehensive overview of the genomic, immunologic and microbiome discoveries in VEO-IBD and in pediatric IBD and of the advances in the diagnosis, management and therapy of the disease. This will include lectures by nationally and internationally recognized experts and interactive panel discussions.

This activity has been designed for pediatric gastroenterologists, pediatric gastrointestinal surgeons, GI fellows and residents, physician assistants, clinical nurse specialists, radiologists, pathologists, nutritionists, and other healthcare professionals.

**Course Objectives**

Upon completion of this activity, participants should be able to:

- Explain the genetics of VEO-IBD, new candidate genes and the relevance of these discoveries to disease development
- Discuss the role of the dysregulated immune system in VEO-IBD and how this can impact therapeutic strategies
- Review the latest techniques to study IBD using animal models and enterooids
- Manage difficult cases in patients with VEO-IBD and pediatric IBD
- Select appropriate therapy for patients with VEO-IBD and pediatric IBD, considering both the patient phenotype and the underlying genetics
- Describe the role of the microbiome in IBD and the interaction of the microbes and intestinal immune system
- Counsel patients about the role of diet in disease development and as therapy for IBD

**General Information**

The conference will be held in the Leonard and Madlyn Abramson Pediatric Research Center at Children's Hospital of Philadelphia. The registration fee for physicians is $75 and the fee for nurses is $50. Residents, fellows and medical students may attend for free, however, you'll still need to register. This fee includes breakfast, lunch and program material.

**Register online at chop.cloud-cme.com**

---

**PROGRAM — FRIDAY, JUNE 2, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>8:15 a.m.</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td></td>
<td>Bryan Wolf, MD, PhD</td>
</tr>
<tr>
<td></td>
<td>David Piccoli, MD</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>New Candidate Genes in VEO-IBD and IBD</td>
</tr>
<tr>
<td></td>
<td>Judy Cho, MD</td>
</tr>
<tr>
<td>8:50 a.m.</td>
<td>Clinical Case: Unique</td>
</tr>
<tr>
<td></td>
<td>Etiology in Monogenic VEO</td>
</tr>
<tr>
<td></td>
<td>Scott Saper, MD, PhD</td>
</tr>
<tr>
<td>9:10 a.m.</td>
<td>Immuno regulation and IBD</td>
</tr>
<tr>
<td></td>
<td>Kathleen Sullivan, MD, PhD</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Novel Molecular Defects Associated with VEO-IBD</td>
</tr>
<tr>
<td></td>
<td>Judith Kelsen, MD</td>
</tr>
<tr>
<td>10 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>10:10 a.m.</td>
<td>VEO-IBD and HLH: Defects in Cytotoxic Killing</td>
</tr>
<tr>
<td></td>
<td>Edward Behrens, MD, PhD</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Cross talk between Intestinal Microbes and the Immune System</td>
</tr>
<tr>
<td></td>
<td>David Arbis, MD</td>
</tr>
<tr>
<td>10:50 a.m.</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>11:10 a.m.</td>
<td>Abstract</td>
</tr>
<tr>
<td>11:25 a.m.</td>
<td>Abstract</td>
</tr>
<tr>
<td>11:40 a.m.</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

---

**AMCME Accreditation Statement**

The Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for physicians.

**AMA Credit Designation Statement**

The Children’s Hospital of Philadelphia designates this live activity for a maximum of 6.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Services for People with Disabilities**

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.

**Cancellation and Refund Policy**

Children’s Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, Children’s Hospital of Philadelphia will refund any registration fees, less a $40 service fee, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by hotels, airlines or travel agencies. In order to process refunds for course withdrawals, cancellations must be received in writing by Monday, May 22, 2017. No refunds will be issued thereafter.

**AMA Credit Designation Statement**

The Children’s Hospital of Philadelphia designates this live activity for a maximum of 6.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
All attendees are invited to submit an abstract for poster or oral presentations. Free program material. For free, however, you’ll still need to register. This fee includes breakfast, lunch and $75 and the fee for nurses is $50. Residents, fellows and medical students may attend Center at Children’s Hospital of Philadelphia. The registration fee for physicians is $110. The conference will be held in the Leonard and Madlyn Abramson Pediatric Research Center at Children’s Hospital of Philadelphia.

Course Objectives

Upon completion of this activity, participants should be able to:

• Explain the genetics of VEO-IBD, new candidate genes and the relevance of these discoveries to disease development
• Discuss the role of the dysregulated immune system in VEO-IBD and how this can impact therapeutic strategies
• Review the latest techniques to study IBD using animal models and enteroids
• Manage difficult cases in patients with VEO-IBD and pediatric IBD
• Select appropriate therapy for patients with VEO-IBD and pediatric IBD, considering both the patient phenotype and the underlying genetics
• Describe the role of the microbiome in IBD and the interaction of the microbes and intestinal immune system
• Counsel patients about the role of diet in disease development and as therapy for IBD

General Information

The conference will be held in the Leonard and Madlyn Abramson Pediatric Research Center at Children’s Hospital of Philadelphia. The registration fee for physicians is $75 and the fee for nurses is $50. Residents, fellows and medical students may attend for free, however, you’ll still need to register. This fee includes breakfast, lunch and program material.

All attendees are invited to submit an abstract for poster or oral presentations.

---

**PROGRAM — FRIDAY, JUNE 2, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>8:15 a.m.</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>New Candidate Genes in VEO-IBD and IBD</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Clinical Case: Unique Etiology in Monogenic VEO</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Novel Molecular Defects Associated with VEO-IBD</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>10:10 a.m.</td>
<td>VEO-IBD and HLA: Defects in Cytotoxic Killing</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Crossstalk Between Intestinal Microbes and the Immune System</td>
</tr>
<tr>
<td>10:50 a.m.</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td>11:10 a.m.</td>
<td>Abstract</td>
</tr>
<tr>
<td>11:25 a.m.</td>
<td>Abstract</td>
</tr>
<tr>
<td>11:40 a.m.</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

---

**Course Overview**

This one-day course is designed to present the latest developments in research and clinical care for very early-onset inflammatory bowel disease (VEO-IBD) and pediatric IBD. Participants will receive a comprehensive overview of the genomic, immunologic and microbiome discoveries in VEO-IBD and in pediatric IBD and of the advances in the diagnosis, management and therapy of the disease. This will include lectures by nationally and internationally recognized experts and interactive panel discussions.

This activity has been designed for pediatric gastroenterologists, pediatric gastrointestinal surgeons, GI fellows and residents, physician assistants, clinical nurse specialists, radiologists, pathologists, nutritionists, and other healthcare professionals.

Register online at chop.cloud-cme.com

---

**ACMIE Accreditation Statement**

The Children’s Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for physicians.

**AMA Credit Designation Statement**

The Children’s Hospital of Philadelphia designates this live activity for a maximum of 6.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Services for People with Disabilities**

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.

---

**Cancellation and Refund Policy**

Children’s Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, Children’s Hospital of Philadelphia will refund any registration fees, less a $40 service fee, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by hotels, airlines or travel agencies. In order to process refunds for course withdrawals, cancellations must be received in writing by Monday, May 22, 2017; No refunds will be issued thereafter.
Course Overview
This one-day course is designed to present the latest developments in research and clinical care for very early-onset inflammatory bowel disease (VEO-IBD) and pediatric IBD. Participants will receive a comprehensive overview of the genomic, immunologic and microbiome discoveries in VEO-IBD and in pediatric IBD and of the advances in the diagnosis, management and therapy of the disease. This will include lectures by nationally and internationally recognized experts and interactive panel discussions.

This activity has been designed for pediatric gastroenterologists, pediatric gastrointestinal surgeons, GI fellows and residents, physician assistants, clinical nurse specialists, radiologists, pathologists, nutritionists, and other healthcare professionals.

Course Objectives
Upon completion of this activity, participants should be able to:

- Explain the genetics of VEO-IBD, new gene candidates and the relevance of these discoveries to disease development
- Discuss the role of the dysregulated immune system in VEO-IBD and how this can impact therapeutic strategies
- Review the latest technologies to study IBD using animal models and enterooids
- Manage difficult cases in patients with VEO-IBD and pediatric IBD
- Select appropriate therapy for patients with VEO-IBD and pediatric IBD, considering both the patient phenotype and the underlying genetics
- Describe the role of the microbiome in IBD and the interaction of the microbes and intestinal immune system
- Counsel patients about the role of diet in disease development and as therapy for IBD

General Information
The conference will be held in the Leonard and Madlyn Abramson Pediatric Research Center at Children's Hospital of Philadelphia. The registration fee for physicians is $75 and the fee for nurses is $50. Residents, fellows and medical students may attend for free, however, you'll still need to register. This fee includes breakfast, lunch and program materials.

All attendees are invited to submit an abstract for poster or oral presentations.

Register online at chop.cloud-cme.com

PROGRAM — FRIDAY, JUNE 2, 2017

7:30 a.m. Registration and Continental Breakfast

8:15 a.m. Welcome and Introduction
Bryan Wolf, MD, PhD
David Piccoli, MD

8:30 a.m. New Candidate Genes in VEO-IBD and IBD
Judy Cho, MD

8:50 a.m. Clinical Case: Unique Presentation and Underlying Etiology in Monogenic VEO
Scott Snapper, MD, PhD

9:10 a.m. Immunoisregulation and IBD
Kathleen Sullivan, MD, PhD

9:30 A.M. Novel Molecular Defects Associated with VEO-IBD
Judith Kelsen, MD

10 a.m. Break

10:10 a.m. VEO-IBD and HLH: Defects in Cytotoxic Killing
Edward Behrens, MD, PhD

10:30 a.m. Cross-talk Between Intestinal Microbes and the Immune System
David Arbis, MD

10:50 a.m. Panel Discussion

11:10 a.m. Abstract

11:25 a.m. Abstract

11:40 a.m. Lunch

4:30 p.m. End of the Conference

5:00 p.m. Adjourn

ACCME Accreditation Statement
The Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for physicians.

AMA Credit Designation Statement
The Children's Hospital of Philadelphia designates this live activity for a maximum of 6.0 AMA PRA Category 1 Credit™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Services for People with Disabilities
If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.

Cancellation and Refund Policy
Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, Children's Hospital of Philadelphia will refund any registration fees, less a $40 service fee, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by hotels, airlines or travel agencies. In order to process refunds for course withdrawals, cancellations must be received in writing by Monday, May 22, 2017. No refunds will be issued thereafter.
Personalized IBD and VEO-IBD: Genomics, Microbiome, Biologics and Beyond

Friday, June 2, 2017
Leonard and Madlyn Abramson Pediatric Research Center

Unless otherwise noted, faculty are from Children’s Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania.

Course Directors
Robert Baldassano, MD
Director, Center for Pediatric Inflammatory Bowel Disease
Co-director, Penn/CHOP Microbiome Program
Professor of Pediatrics

Andrew Grossman, MD
Co-director Center for Pediatric Inflammatory Bowel Disease
Associate Professor of Clinical Pediatrics

Judith Kelsen, MD
Director, Very Early Onset IBD Program
Assistant Professor of Pediatrics

Guest Faculty
David Artis, PhD
Professor of Microbiology and Immunology
Joan and Sanford I. Weill Department of Medicine
Weill Cornell Medical College

Frederic D. Bushman, PhD
Chair, Department of Microbiology
Co-PI, Penn/CHOP Microbiome Program
Hospital of the University of Pennsylvania
Professor of Microbiology and Pediatrics

Marla Dubinsky, MD
Chief, Pediatric Gastroenterology and Hepatology
Co-director, Inflammatory Bowel Disease Center
Mount Sinai Medical Center
Professor of Pediatrics

Audy Chu, MD
Director, Institute for Personalized Medicine
Mount Sinai Hospital
Professor of Genetics and Genomic Sciences
Professor of Medicine: Gastroenterology
Mount Sinai School of Medicine

Jeffrey Hyams, MD
Division Head, Gastroenterology
Connecticut Children’s Medical Center
Professor of Pediatrics

University of Connecticut School of Medicine

Joel Rosh, MD
Director, Pediatric Gastroenterology
Vice Chairman, Clinical Development and Research Affairs
Goryeb Children’s Hospital/Atlantic Health System
Mount Sinai Hospital
Professor of Pediatrics

Mount Sinai School of Medicine

Scott Snapper, MD, PhD
Director, Inflammatory Bowel Disease Center
Boston Children’s Hospital
Associate Professor of Medicine
Harvard Medical School

Gary Wu, MD
Director, Molecular Biology Core Facility, NIDDK Center for Molecular Studies in Digestive and Liver Diseases
Associate Chief for Research, GI Division
Penn/CHOP Center for Digestive, Liver and Pancreatic Medicine
Co-director, Penn/CHOP Microbiome Program
Hospital of the University of Pennsylvania
Professor of Gastroenterology