

Clubs are open to all attendees at no additional fee.

Saturday, April 30

7:00am–9:00am

**1050A Bilirubin Club
Bilirubin Neurotoxicity–Processing Disorders**
Hyatt Regency Downtown, Centennial A

Target Audience: Scientists, clinicians and investigators with specific interest in bilirubin biology and its clinical as well as epidemiological implications.

Objective:

- To engage in an informal and interactive networking and learn about ongoing research projects related to visual, auditory and brainstem processing disorders

Chairs: Vinod K. Bhutani, Stanford University School of Medicine and Lois Hamerman, Children's Hospital of Philadelphia, Philadelphia, PA

To discuss ongoing investigations in the areas of bilirubin biology, bilirubin biotechnologies, bilirubin-related medical devices, clinical practice, clinical research protocols, impact of severe neonatal hyperbilirubinemia on visual, auditory and brainstem processing disorders. This session will be an interactive discussion of ongoing research.

- 7:00 Welcome: BIND in the Post-Phototherapy Era**
Vinod K. Bhutani, Stanford University School of Medicine, Palo Alto, CA
- 7:20 Tribute to 55 Years of Research and Practice of Neonatal Phototherapy**
Thor Willy Ruud Hansen, Oslo University Hospital - Rikshospitalet, Oslo, Norway
- 7:40 Visual Processing**
William Good, The Smith-Kettlewell Eye Research Institute, University of California, San Francisco, CA
- 8:00 Brainstem Processing Disorders**
Sanjiv B. Amin, University of Rochester, Rochester, NY
- 8:20 Auditory Processing Disorders**
Steven M. Shapiro, Medical College of Virginia, Richmond, VA
- 8:40 Panel Discussion: Lessons Learned and Yet to be Learned**
David K. Stevenson, Stanford University School of Medicine, Stanford, CA
Lucile Salter Packard Children's Hospital at Stanford, Palo Alto, CA

Contact for information:
Vinod K. Bhutani, MD
Stanford University School of Medicine
Phone: 650-723-6621
Email: bhutani@stanford.edu

12:30pm–1:45pm
1395A NICU Follow-Up Club
Four Seasons I

Target Audience: General and developmental pediatricians, neonatologists, family medicine physicians and nurse practitioners who care for infants, children and adolescents who were hospitalized in a Neonatal Intensive Care Unit at birth. Residents, fellows and faculty should be encouraged to attend.

Objective:

- To understand and identify various medical and developmental problems that may be detected in NICU graduates during childhood and adolescence and be able to inform parents about what type of follow-up is recommended for their child during school age and beyond

Chairs: Ricki F. Goldstein, Duke University Medical Center, Durham, NC and Sonia Obermeyer Imaizumi, Cooper University Hospital, Camden, PA

Speakers will discuss various medical and developmental problems which have been recognized in NICU graduates during early childhood and adolescence. Early risk factors for these later problems will be identified and discussed and mechanisms for follow-up will be suggested.

- 12:30 Medical and Developmental Problems in School and Beyond: Can We Ever Stop Worrying About Our NICU Grads?**
Seetha Shankaran, Children's Hospital of Michigan, Wayne State University School of Medicine, Detroit, MI
- 1:05 Medical and Developmental Problems in School and Beyond: Can We Ever Stop Worrying About Our NICU Grads?**
Betty R. Vohr, Women and Infant's Hospital, Providence, RI, Brown University, Providence, RI

Supported by a restricted educational grant from Abbott Nutrition

Contact for information:
Jim Couto, MA
American Academy of Pediatrics
Phone: 847/434-7656
Email: jcouto@aap.org

7:30pm–8:45pm
1920A Neonatal Hemodynamics Club
Sheraton Downtown, Plaza Ballroom D/E/F

Target Audience: Neonatologists as well as cardiologists and pediatric intensivists involved in the care of the newborn and translational and clinical researchers interested in cardiovascular physiology in general and the interaction among cerebral oxygenation, blood pressure and brain function in particular in very preterm neonates during transition to extrauterine life.

Objective:

- To understand the complex interaction among cerebral oxygenation, blood pressure and brain function in very preterm neonates during transition to extrauterine life and relate these findings to long-term neurodevelopmental outcome

Chair: Istvan Seri, Children's Hospital Los Angeles, Keck School of Medicine of the University of Southern California, Los Angeles, CA

The Neonatal Hemodynamics Club addresses clinically relevant topics in neonatal-perinatal medicine with a special focus on developmental cardiovascular physiology and neonatal hemodynamics. Since its inception in 2004, renowned national and international experts including but not restricted to Nick Evans, Michael Weindling, Adre du Plessis, Kristi Watterberg, Ronald Clyman, Keith Barrington and Istvan Seri gave presentations on different topics such as neonatal shock and its treatment; systemic blood flow, blood pressure, relative adrenal insufficiency and cerebral oxygenation during neonatal transition; persistent patent ductus arteriosus and persistent pulmonary hypertension of the neonate. The topic of the Hemodynamics Club in 2011 will be the analysis of data obtained by comprehensive monitoring of neonatal hemodynamic parameters in very preterm neonates during transition to extrauterine life with a special focus on the interaction among cerebral oxygenation, blood pressure and brain function and the relevance of these findings on medium- and long-term neurodevelopmental outcome.

- 7:30 Cerebral Oxygenation Using Near-Infrared Spectroscopy in Very Preterm Neonates During Postnatal Transition: Reliability and Pitfalls**
Frank van Bell, Wilhelmina Children's Hospital, University Medical Center Utrecht, Utrecht, Netherlands

8:05 Cerebral Oxygenation and Brain Function in Very Preterm Neonates During the Immediate Transitional Period: Clinical Relevance

Petra Lemmers, Wilhelmina Children's Hospital, University Medical Center Utrecht, Utrecht, Netherlands

Sponsored by the Center for Fetal and Neonatal Medicine/USC Division of Neonatal Medicine at Childrens Hospital Los Angeles and USC

Contact for information:

Istvan Seri, MD, PhD
Children's Hospital Los Angeles and Women's and Children's Hospital,
University of Southern California
Phone: 323-361-5932
Email: iseri@chla.usc.edu

Sunday, May 1

11:45am–1:00pm

2360A Perinatal Brain Club**Periventricular Intraventricular Hemorrhage in the Preterm Infant—A 30 Year Journey. Have We Made a Difference?**

Korbel 2A/3A

Target Audience: Scientists and clinicians involved in the care of sick very low birth weight infants as well as those who provide longitudinal neurodevelopmental followup.

Objective:

- To have an enhanced understanding of the pathogenesis of periventricular-intraventricular hemorrhage and post hemorrhagic hydrocephalus as well as current preventative and treatment strategies and the potential impact on neurodevelopmental outcome

Chair: Jeffrey M. Perlman, Weill Cornell Medical College & New York Presbyterian Hospital, New York City, NY

This session will focus on the pathogenesis as well as the interventions that have been evaluated over the past 30 years as it relates to the incidence of periventricular-intraventricular hemorrhage and post hemorrhagic hydrocephalus as well as to the neurodevelopmental outcome of very low birth weight infants.

11:45 General Overview

Jeffrey M. Perlman, Weill Cornell Medical College & New York Presbyterian Hospital, New York City, NY

12:10 Post Hemorrhagic Hydrocephalus

Andrew Whitelaw, School of Clinical Sciences, University of Bristol, Bristol, UK

12:35 Impact on Neurodevelopmental Outcome

T. Michael O'Shea, Wake Forest University School of Medicine, Winston-Salem, NC

Contact for information:

Jeff Perlman, MD
Weill Cornell Medical College
Phone: 212-746-3530
Email: jmp2007@med.cornell.edu

12:00pm–1:00pm

2370A Neonatal Sepsis Club

Korbel 2B/3B

Target Audience: Scientists and clinicians specializing in neonatology, pediatric critical care, pharmacology, infectious diseases, newborn care, NEC, patient safety and quality improvement will be interested in this topic.

Objective:

- To understand new findings of prolonged antiviral suppression of HSV and new management considerations for pregnancies complicated by HSV

Chair: David A. Kaufman, University of Virginia Children's Hospital, Charlottesville, VA

Poor neurodevelopmental outcomes and cutaneous recurrences remain frequent among survivors of neonatal Herpes simplex virus (HSV) disease. The National Institute of Allergy and Infectious Diseases (NIAID) Collaborative Antiviral Study Group (CASG) evaluated the ability of oral acyclovir suppressive therapy to impact these outcomes in an RCT. Neonates with HSV disease following completion of parenteral acyclovir were randomized to immediate acyclovir suppression (300 mg/m²/dose orally 3 times daily for 6 months) or placebo. Subjects randomized to acyclovir suppression had significantly higher mean Bayley Scales of Infant Development Mental Scores at 12 months compared with the placebo patients (88.24 vs. 68.12, p=0.046). Infants surviving neonatal HSV CNS disease have improved neurodevelopmental outcomes when started immediately on suppressive oral acyclovir therapy for six months. Additionally, antiviral suppression after both CNS and skin, eye, mouth (SEM) disease decreases skin lesion recurrences. This study and an update on perinatal, intrapartum and neonatal management will be discussed.

12:00 Introduction

David A. Kaufman, University of Virginia Children's Hospital, Charlottesville, VA

12:05 Herpes simplex Virus: Treatment For Six Weeks or Six Months. Update on Prenatal, Intrapartum and Neonatal Management

Richard J. Whitley, University of Alabama at Birmingham, Children's Hospital, Birmingham, AL

12:40 Discussion*Contact for information:*

David Kaufman, MD
University of Virginia School of Medicine
University of Virginia Children's Hospital
Phone: 434-924-9114
Email: dak4r@virginia.edu

12:15pm–1:45pm

2580A Directors of Research in Pediatrics

Room 107

Target Audience: Research directors, scientists, and research trainees. Appeal will be the availability and accessibility of experts in operationalizing a collective vision for pediatric research.

Objective:

- At the conclusion of this session, participants should be better able to summarize the positive and negative aspects of centralized national foci of pediatric research

Presentations and discussions regarding national centers for pediatric research including the National Children's Study and Child Health Research Development Award programs.

The Pediatric Research Consortia Bill: An Update

David A. Williams, The Children's Hospital of Boston, Harvard Medical School, Boston, MA

National Children's Study and Multicenter National Research Networks

Stephen R. Daniels, The Children's Hospital/University of Colorado, Denver, CO

Discussion

Box Lunches will be provided.

Underwritten by the William H. Eilinger Endowment of Golisano Children's Hospital of the University of Rochester Medical Center.

Contact for information:

Nina F. Schor, MD, PhD
University of Rochester Medical Center
Phone: 585-275-4673
Email: nina_schor@urmc.rochester.edu

3:30pm–5:00pm

2773A Milk Club
Room 106

Target Audience: Researchers and clinicians who are involved areas of human milk research, neonatology, gastroenterology and nutrition.

Objective:

- Participants will better understand what is new in the field of human milk banking and the issues surrounding the use of human milk in neonates

Chairs: Maya Bunik, University of Colorado Denver, The Children's Hospital, Aurora, CO and Cynthia Howard, University of Rochester, Rochester General Hospital, Rochester, NY

In the absence of an infant's own mother's milk, donor milk offers the benefits of optimal nutrition, digestibility, immune protection and growth factors. Human donor milk has been used for many reasons including prematurity, allergies, other medical or surgical complications and recently in disaster relief.

3:30 Update on Human Milk Banking and the Use of Human Milk
Ardythe L. Morrow, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

4:30 Panel Discussion
Richard J. Schanler, Albert Einstein College of Medicine, Bronx, NY, and Cohen Children's Medical Center of New York at North Shore, Manhasset, NY
Susan Landers, Dell Children's Medical Center, Seton Medical Center, Austin, TX
Deborah O'Connor, University of Toronto, The Hospital for Sick Children, Toronto, Canada

Contact for information:

Cynthia R. Howard MD, MPH
Associate Professor of Pediatrics, University of Rochester
Phone: 585-922-3926
Email: cindy.howard@rochestergeneral.org
Maya Bunik, MD, MSPH, FABM, FAAP
Associate Professor, Pediatrics, University of Colorado, Denver
Phone: 720-777-3890
Email: bunik.maya@tchden.org

Monday, May 2

12:00pm–1:00pm

3345A 28th Annual Audrey K. Brown Kernicterus Symposium
Four Seasons 3

Target Audience: Practitioners who take care of newborn infants or follow them up after birth.

Objectives:

- To understand when to consider hereditary spherocytosis and pyruvate kinase deficiency as contributing causes of neonatal jaundice
- To understand the importance of unbound bilirubin as a risk factor for neurologic injury in a population

Chairs: Vinod K. Bhutani, Stanford University School of Medicine, Stanford, CA, William J. Cashore, Women & Infants Hospital of Rhode Island, Providence, RI, and David K. Stevenson, Stanford University School of Medicine, Stanford, CA

The Kernicterus Symposium is offered annually as a didactic educational session designed to provide the most up-to-date information about important topics related to neonatal jaundice and its prevention or treatment.

12:00 In Neonates with Hyperbilirubinemia, When Should I Consider Hereditary Spherocytosis and Pyruvate Kinase Deficiency?
Robert D. Christensen, McKay Dee Hospital, Ogden, UT

12:30 Unbound Bilirubin: The Egyptian Story
Richard P. Wennberg, University of Washington School of Medicine, Seattle, WA

Contact for information:

David K. Stevenson
Stanford University School of Medicine
Phone: 650-723-5711
Email: dstevenson@stanford.edu

12:00pm–1:30pm

3350A Bioethics Interest Group
Are IRBs Seriously Outmoded? A Debate
Korbel 4E

Target Audience: All academic pediatricians, particularly those interested in or engaged in research.

Objectives:

- To review the rationale for IRBs
- To evaluate how the IRB system functions today
- To consider whether the IRB system needs a radical overhaul

Chair: Susan G. Albersheim, University of British Columbia, Vancouver, BC, Canada

12:00 Introduction and Case Presentation
Susan G. Albersheim, University of British Columbia, Vancouver, BC, Canada

12:10 No, IRBs Are Not Seriously Outmoded
Douglas S. Diekema, University of Washington School of Medicine, Seattle Children's Hospital, Seattle, WA

12:35 Yes, IRBs Are Seriously Outmoded
Norman Fost, University of Wisconsin, Madison, WI

1:00 Discussion

Contact for information:

Susan Albersheim, MD, PhD
University of British Columbia
Children's and Women's Hospitals of British Columbia
Phone: 604-875-2135
Email: salbersheim@cw.bc.ca

12:15pm–1:15pm

3425A Perinatal Nutrition and Metabolism Club

Hyatt Regency Downtown, Centennial D/E

Objectives:

- To review some recent scientific advances that have underlined the importance of the microbiome
- Review some of the basic interactions of nutrients with the resident microbiota of the gastrointestinal tract and their relevance to human health
- Review the interactions of the intestinal mucosal immune system with the intestinal microbiota and how these affect autoimmunity, allergy, obesity and other aspects of health and disease
- Speculate on future areas of research that will relate the microbiome to human health

Chairs: Patti J. Thureen, University of Colorado Health Sciences Center, Aurora, CO and Brenda L. Poindexter, Indiana University School of Medicine, Indianapolis, IN

Interest in the microbes in the human gastrointestinal tract is rapidly emerging based on newly developed molecular techniques as well as an understanding that this “forgotten organ” plays a major role in health and disease. This is especially pertinent to those who care for infants and children because the relationship between the intestinal microbiota and the development of the immune, endocrine and nervous systems are integrally related, and much of this occurs in the first years of life. Because of the major role microbes play in health and disease, a better understanding of the impact of various early perturbations such as the use of antibiotics, and feeding of foods of various compositions may have a life-long impact.

12:15 Development of the Intestinal Microbiome: Role in Subsequent Health

Josef Neu, University of Florida, Gainesville, FL

*Supported by a restricted educational grant from Abbott Nutrition**Contact for Information:*

Patti Thureen, MD
University of Colorado at Denver and Health Sciences Center
The Children’s Hospital of Denver
Phone: 303-724-2870
Email: Patti.thureen@ucdenver.edu

7:45pm–9:00pm

3950A Lung Club

Hyatt Regency Downtown, Centennial D/E

Target Audience: National and international physicians and investigators with a broad based interest in neonatal Pulmonology and the developmental biology of lung development.

Objective:

- To understand the role of endogenous nitric oxide mediated signaling pathways in lung development
- To recognize novel new approaches to enhance nitric oxide mediated biologic pathways and their enhancement in clinical Neonatology
- To transl

Chairs: Richard John Martin, Rainbow Babies & Children’s Hospital, Case Western Reserve University School of Medicine, Cleveland, OH and Robin H. Steinhorn, Children’s Memorial Hospital, Northwestern University, Chicago, IL

Despite enormous promise in animal models, the delivery of inhaled nitric oxide to preterm infants has generated conflicting data in alleviating chronic lung disease. This lecture will focus upon this challenge by beginning to identify fundamentally different and novel approaches to improving nitric oxide delivery, uptake and resultant benefit for preterm infants

Inhaled NO: Through the Narrow Gate

Richard L. Auten, Duke University Medical Center, Durham, NC

*Supported by a restricted educational grant from Abbott Nutrition**Contact for information:*

Richard J. Martin, MD
Rainbow Babies & Children’s Hospital
Phone: 216-844-3387
Email: rxm6@case.edu

Robin H. Steinhorn, MD
Children’s Memorial Hospital & Northwestern University
Phone: 773-880-4142
Email: r-steinhorn@northwestern.edu