



# ECHO

Environmental influences  
on Child Health Outcomes

A program supported by the NIH.



## ECHO Events at PAS April 27–30, 2019 PAS | Baltimore, MD

### Saturday, April 27

Session Time/Session Title		Author(s)/Presenter(s)
8:00 a.m. – 10:00 a.m. Genomics/Epigenomics Convention Center 321-323	<b>Platform Presentation</b>  <i>DNA methylation variations associated with medical complications in very preterm infants at NICU discharge.</i>	Todd Everson, Carmen Marsit, Amber Burt, Karen Hermetz, James Hagood, Wesley Jackson, Brian Carter, Jennifer Helderman, Julie Hofheimer, Elisabeth McGowan, Charles Neal, Steven Pastyrnak, Lynne Smith, Antoine Soliman, Sheri DellaGrotta, Lynne Dansereau, James Padbury, Barry Lester, T. Michael O'Shea
8:00 a.m. – 10:00 a.m. Neonatal Follow-Up: Neonatal Outcomes Convention Center Ballroom II	<b>Platform Presentation</b>  <i>Value of the Neonatal Research Network Estimator for Predicting School-Age Neurodevelopmental Outcomes of Extremely Preterm Infants</i>	Genevieve Taylor, Robert Joseph, John Douglass, Jeff Laux, Wayne Price, T. Michael O'Shea
1:15 p.m. – 2:30 p.m. 1819 Emergency Medicine: Operations 2 Convention Center Halls D-G	<b>Poster Presentation</b> <b>Board #: 156</b>  <i>Impact of a Mobile Device-Based Clinical Decision Support Tool on Guideline Adherence and Mental Workload Amongst Trainees and Attending Physicians</i>	Russell McCulloh, Ellen Kerns, Katherine Richardson, Sarah Fouquet
1:15 p.m. – 2:30 p.m. 1827 Quality Improvement: Improve Screening and Prevention in Ambulatory Care 1 Convention Center Halls D-G	<b>Poster Presentation</b> <b>Board #:214</b>  <i>Feasible Strategies for Sustaining Guideline Adherence: Cross-sectional Analysis of a National Collaborative</i>	Russell McCulloh, Sunitha Kaiser, Kristin Shadman, Eric Biondi
1:15 p.m. – 2:30 p.m. Neonatal Epidemiology, Health Services Research: Neurology Convention Center Halls D-G	<b>Poster Presentation</b> <b>Board #:469</b>  <i>Neonatal Neurobehavior in Infants Born &lt;30 weeks to High Risk Mothers</i>	Julie Hofheimer, Lynne Smith, T. Michael O'Shea, Brian Carter, Steven Pastyrnak, Jennifer Helderman, Charles Neal, Antoine Soliman, Lynne Dansereau, Sheri DellaGrotta, Barry Lester, Brown University

## Saturday, April 27

Session Time/Session Title		Author(s)/Presenter(s)
<b>2:45 p.m. – 4:15 p.m.</b>	<b>Hot Topic/Topic Symposia</b>	Matthew Gillman
Precision Pediatrics: The Promise of Integrating Advanced Science and Technology with Prospective Birth Cohort Studies	<i>ECHO: Environmental Influences on Child Health Outcomes: Leveraging Multiple Cohort Studies</i>	
<b>Convention Center 301-302</b>		
<b>3:00 p.m. – 6:00 p.m.</b>	<b>Workshop</b>	Robert Annett, Ann Davis, Russell McCulloh, Bruce Shiramizu, Jessica Snowden, Christine Turley, Sara Watson
1604 Applying Team Science to Building Research Collaborative	<i>Applying Team Science to Building Research Collaborative</i>	
<b>Convention Center 313</b>		
<b>4:45 p.m. – 6:45 p.m.</b>	<b>Platform Presentation</b>	Jessica Snowden, Corrine Hanson, Matthew Van Ormer, Jeremy Furtado, Ann L. Anderson Berry
1785 Pediatric Nutrition	<i>Infant serum nutrient levels are associated with biomarkers of inflammatin at the time of delivery</i>	
<b>Convention Center 350</b>		
<b>4:45 p.m. – 6:45 p.m.</b>	<b>Platform Presentation</b>	Jessica Snowden, Corrine Hanson, Matthew Van Ormer, Jeremy Furtado, Ann L. Anderson Berry
1785 Pediatric Nutrition	<i>Maternal tobacco use affects the relationship between nutritional anti-oxidants and infant inflammation</i>	
<b>Convention Center 350</b>		

## Sunday, April 28

Session Time/Session Title		Author(s)/Presenter(s)
<b>8:00 a.m. – 10:00 a.m.</b> 2165 Hospital-Based Medicine: Clinical Care I <b>Convention Center 301-302</b>	<b>Platform Presentation</b> <i>Prevalence and epidemiology of bacteremia and meningitis in well-appearing febrile infants in the U.S.</i>	Russell McCulloh, Ellen Kerns, Eric Biondi, Shawn Ralston
<b>8:00 a.m. – 10:00 a.m.</b> Endocrinology: Clinical <b>Convention Center 314-315</b>	<b>Platform Presentation</b> <i>Testicular Function in Boys with 47,XXY</i>	Shanlee Davis, Karen Kowal, Aysha Tahsin, Judith Ross
<b>1:00 p.m. – 3:00 p.m.</b> Using Genomics Approaches To Examine the Role of the Placenta in the Developmental Origins of Health and Disease <b>Convention Center 316</b>	<b>State of the Art Plenary</b> <i>Introduction to the Session</i>	Carmen Marsit
<b>1:15 p.m. – 2:30 p.m.</b> 2820 Infectious Diseases: CNS Infections <b>Convention Center Halls D-G</b>	<b>Poster Presentation Board #:171</b> <i>The influence of a rapid meningitis/encephalitis panel on pediatric meningitis clinical practice</i>	Jessica Snowden, Aleisha Nabower, Sydney Miller, Benjamin Biewen, Elizabeth Lyden, Nathaniel Goodrich, Alison Miller, Nathan Gollehon, Gwenn Skar
<b>5:45 p.m. – 7:30 p.m.</b> 2800 Gastroenterology/Hepatology 1 <b>Convention Center Halls D-G</b>	<b>Poster Presentation Board #:5</b> <i>High Prevalence of Suspected Non-alcoholic Fatty Liver Disease in Native American Children seen in a Pediatric Weight Management Clinic</i>	Alberta Kong, Kalyan Ray Parashette, Sylvia Negrete, Elizabeth Jimenez, Grace McCauley
<b>5:45 p.m. – 7:30 p.m.</b> 2866 Endocrinology: Type 1 Diabetes 1 <b>Convention Center Halls D-G</b>	<b>Poster Presentation Board #:576</b> <i>Zinc in Youth with Type 1 Diabetes: A Systematic Review and Meta-analysis</i>	Sara Watson, Yana Feygin, Vida Vaughn, Kupper Wintergerst, Gilbert Liu, Lu Cai
<b>5:45 p.m. – 7:30 p.m.</b> Neonatal Follow-Up: Neonatal Diseases & Neurodevelopmental Outcomes 1 <b>Convention Center Halls D-G</b>	<b>Poster Session Board #:373</b> <i>Neonatal cranial ultrasound abnormalities are associated with behavioral outcomes at 10 years of age in children born extremely preterm</i>	Jennifer Check, Heather Campbell, Irina Mokrova, Karl Kuban, T. Michael O'Shea
<b>7:30 p.m. – 11:00 p.m.</b> <b>Hilton Key Ballroom 3-4 &amp; 6</b>	<b>Industry Sponsored Symposia</b> <i>Clinical Research in the Pediatric Population: A Network Perspective</i>	Janice Sullivan, Perdita Taylor-Zapata, Matthew Laughon, Kelly Wade, International Children's Advisory Network (iCAN) parent & adolescent participants

## Monday, April 29

Session Time/Session Title		Author(s)/Presenter(s)
<p><b>1:00 p.m. – 3:00 p.m.</b></p> <p>3833 Neonatal Abstinence Syndrome: Eat, Sleep, Console, Repeat – and Other New Thoughts for 2019</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Symposia</b></p> <p><b>Board #:10</b> – Medication Assisted Treatment (MAT): Maternal Care During Pregnancy and Outcomes in Opioid-Exposed Newborns</p> <p><b>Board #:3</b> – Neurodevelopmental Outcomes of Infants Treated with Either Morphine or Methadone for Neonatal Abstinence Syndrome: A Prospective Randomized Control Trial</p> <p><b>Board #:5</b> – NNEPQIN NAS Initiative: Implementaion of the Eat, Sleep, Console Care Tool across a regional neonatal quality improvement network</p>	<p>Lori Devlin</p> <p>Adam Czynski</p> <p>Bonny Whalen</p>
<p><b>3:30 p.m. – 5:30 p.m.</b></p> <p>3732 Assessing Neonatal Neurobehavior for the Clinician as well as the Researcher, Utilizing the Revised NICU Network Neurobehavioral Scale</p> <p><b>Convention Center 312</b></p>	<p><b>Workshop</b></p> <p><i>Background and History of the NNNS</i></p>	<p>Barry Lester</p>
<p><b>3:30 p.m. – 5:30 p.m.</b></p> <p><b>Convention Center 312</b></p>	<p><b>Workshop</b></p> <p><i>Assessing neonatal neurobehavior for the clinician as well as the researcher, utilizing the revised NICU Network Neurobehavioral Scale (NNNS)</i></p>	<p>Elizabeth McGowan, Barry Lester, Amy Salisbury, Lynne Andriozzi</p>
<p><b>3:30 p.m. – 5:30 p.m.</b></p> <p>Obesity &amp; Disordered Eating: Pregnancy and Early Childhood</p> <p><b>Convention Center Ballroom II</b></p>	<p><b>Platform Presentation</b></p> <p><i>Biomarkers of neonatal systemic inflammation among extremely preterm newborns and the risk of obesity at age 10 years</i></p>	<p>Callie Brown, Elizabeth Jensen, Eliana Perrin, Timothy Heeren, Irina Mokrova, Karl Kuban, T. Michael O'Shea</p>
<p><b>5:45 p.m. – 7:30 p.m.</b></p> <p>3830 Health System Innovations (Telemedicine–EHR) 1</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Presentation</b></p> <p><b>Board #:269</b></p> <p><i>Utilization of Mobile App-based Decision Support for Pediatric Asthma Care</i></p>	<p>Sunita Kaiser, Ellen Kerns, Peony Liu, Sarah Fouquet, Corrie McDaniel, Lynda Ken, Russell McCulloh</p>
<p><b>5:45 p.m. – 7:30 p.m.</b></p> <p>Neonatology: Maternal Opioid Use and NAS 2</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Session</b></p> <p><b>Board #:582</b></p> <p><i>A Simplified Finnegan Scoring System to Assess the Need for Treatment in Neonatal Abstinence Syndrome (NAS)</i></p>	<p>Lori Devlin, Janis Breeze, Norma Terrin, Enrique Gomez, Barry Lester, Jonathan Davis</p>

## Tuesday, April 30

Session Time/Session Title		Author(s)/Presenter(s)
<p>7:30 a.m. – 9:30 a.m.</p> <p>4147 Pediatric Therapeutics and Pharmacology 1</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Presentation</b> <b>Board #:437</b></p> <p><i>Perceived Barriers to Clinical Trials Participation: A Survey of Pediatric Caregivers</i></p>	<p>Natalie Sollo, Carolyn Ahlers-Schmidt, Minh-Thuy Bui, Ann Davis, Timothy Smith, Russell McCulloh</p>
<p>7:30 a.m. – 9:30 a.m.</p> <p>4175 Neonatal Pulmonology: Experimental Neonatal Lung Injury</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Presentation</b> <b>Board #:687</b></p> <p><i>Neonatal mice exposed to hyperoxia and allowed to recover in room air demonstrate increased senescence and reduced glycolysis: implications for lung injury and repair</i></p>	<p>Phyllis Dennerly, Sarah Bullock, Abigail Peterson</p>
<p>7:30 a.m. – 9:30 a.m.</p> <p>4116 General Pediatrics 7</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Presentation</b> <b>Board #:148</b></p> <p><i>Pediatric Research Capacity Improvements in the IDeA States Pediatric Clinical Trial Network</i></p>	<p>Jessica Snowden, Janice Sullivan, Kelly Cowan, Robert Annett, Lisa Knight</p>
<p>7:30 a.m. – 9:30 a.m.</p> <p>Neonatology: Neurology &amp; Neurodevelopment 4</p> <p><b>Convention Center Halls D-G</b></p>	<p><b>Poster Session</b> <b>Board #:548</b></p> <p><i>Abnormal neonatal ultrasounds are associated with neurodevelopmental burden at school age among children born extremely preterm</i></p>	<p>Heather Campbell, Jennifer Check, Irina Mokrova, Karl Kuban, Robert Joseph, Elizabeth Allred, T. Michael O'Shea</p>
<p>9:45 a.m. – 11:45 a.m.</p> <p>4410 The NIH Environmental Influences on Child Health Outcomes (ECHO) Program: Goals and Early Findings</p> <p><b>Convention Center 316</b></p>	<p><b>State of the Art Plenary</b></p> <ul style="list-style-type: none"> <li>- <i>Observation and Intervention in the ECHO Program</i></li> <li>- <i>Addressing the Neonatal Opioid Withdrawal Syndrome in the ECHO Program</i></li> <li>- <i>Geographic and Temporal Variation in the Effects of Socio-demographic Factors on Risk of Preterm Birth in the U.S.</i></li> <li>- <i>Epidemiology of Incident Asthma in Children Across the U.S.: Uniques Insights from the ECHO multi-cohort consortium</i></li> </ul>	<p>Matthew Gillman</p> <p>Leslie Young</p> <p>Anne Dunlop</p> <p>Aruna Chandran</p>