

# 2024

## CHNC Annual Symposium

October 28 - 30



— DENVER, COLORADO —



## DAY ONE | MONDAY, OCTOBER 28

### GENERAL SESSION (Morning)

GRAND BALLROOM

- 9:00 AM - 9:45 AM**      **Welcome and State of the CHNC \***  
Jacquelyn Evans, Theresa Grover, Karna Murthy, Anthony Piazza, Kris Reber
- 9:45 AM - 10:30 AM**      **CHNC CIQI**  
C. Briana Bertoni, Beverly Brozanski, Eugenia Pallotto, Anthony Piazza, Aaron Rose
- 10:30 AM - 11:15 AM**      **BREAK**
- 11:15 AM - 12:00 PM**      **Keynote Speaker**  
Ann M. Kulungowski | *Neonatal Vascular Anomalies*
- 12:00 PM - 12:15 PM**      **Platform Abstract Presentation: Improved Outcomes with a Team Approach and Treatment of Early Cardiac Dysfunction in CDH**  
Patrick Sloan

### LUNCH

PARLOUR

- 12:15 PM - 2:00 PM**      **LUNCH**

### GENERAL SESSION (Afternoon)

GRAND BALLROOM

- 2:00 PM - 2:45 PM**      **Keynote Speaker**  
Leeann Pavlek | *The Development and Needs of a Small Baby Unit*
- 2:45 PM - 3:00 PM**      **Platform Abstract Presentation: Reducing Ventilator-Days By Preventing Fluid Overload in At-Risk Neonates through the CAN-U-P-LOTS Standardized Bundle**  
David Askenazi
- 3:00 PM - 3:15 PM**      **Platform Abstract Presentation: Dysbiosis and Systemic Inflammation in Necrotizing Enterocolitis: A Multi-omics Investigation**  
Bryce Jorgensen
- 3:15 PM - 4:00 PM**      **BREAK**
- 4:00 PM - 4:45 PM**      **CHNC EXPLORE Presentations**
- Why not a CLABSI? Varied Adjudication of Blood Stream Infections Among Infants with Central Lines in Level 4 Neonatal ICUs**  
Michael Padula
- Non-elective Removal of Central Venous Catheters Among Level 4 NICUs**  
Lauren Beard
- Clinical Outcomes of Infants with Treacher Collins Syndrome**  
K. Taylor Wild
- Clinical Outcomes of Infants with Jejunal and Ileal Atresia**  
Pritha Nayak
- Impact of Congenital Heart Disease in Infants with CDH**  
Jenna Katz, Sarah Keene



## DAY ONE | MONDAY, OCTOBER 28 (CONTINUED)

### GENERAL SESSION (Afternoon)

4:45 PM – 5:45 PM

#### CHNC Focus Group Updates \*

**Exploring Practices to Support NICU Teams Through Patient Bereavement**  
Jessica Fry, on behalf of the Palliative Care and Ethics Focus Group

**Incidence of Retinopathy of Prematurity in Infants Greater than 30 Weeks Gestational Age**  
Jeffrey S Shenberger, on behalf of the Retinopathy of Prematurity Focus Group

**Management of Bivalirudin for Primary Anticoagulation in Neonatal Respiratory ECMO Therapy within the CHNC**  
Sandy Johng, on behalf of the ECMO Focus Group

**Neonatal Outcomes after Ex-Utero Intrapartum Treatment (EXIT) within the CHNC**  
Ellen Bendel-Stenzel, on behalf of the Fetal Therapy Focus Group

**Outcomes of Infants with Non-Perinatal Hypoxic-Ischemic Encephalopathy Treated with and without Therapeutic Hypothermia: CHNC Comparative Data**  
Rakesh Rao, on behalf of the HIE Focus Group

**Results from a Multisite Survey on Renal Replacement Therapy in Level IV NICU**  
Christine Stoops, on behalf of the Kidney/Renal Focus Group

**Survey of Neonatologists' Perspectives on Diagnosis and Management of Hyperglycemia in Extremely Low Birth Weight Infants**  
Daniela Dinu, on behalf of the Endocrinology Focus Group

**Variation in Neonatal Transport Procedures and Practices within the CHNC**  
Rebecca Martinez-Hannon, on behalf of the Transport Focus Group

5:45 PM – 6:00 PM

#### Closing Remarks \*

Anthony Piazza, Kris Reber

### EVENING RECEPTION

6:00 PM – 7:45 PM

NORTH  
CONVENTION LOBBY

#### RECEPTION AND POSTER SESSION \*

Enjoy light hors d'oeuvres and beverages while viewing selected abstracts at the informal poster session, participate in poster rounds, and network with fellow WiN colleagues!

Supported by Reckitt | Mead Johnson, Platinum Sponsor



## DAY TWO | TUESDAY, OCTOBER 29

### BREAKFAST + BREAKOUT SESSIONS

7:00 AM - 8:30 AM PARLOUR	<b>BREAKFAST</b>
7:00 AM - 7:45 AM SILVER	<b>BREAKOUT: Data Coordinator Strategies for Efficient Registry Management *</b> Kimberley Anderson, Michele Barrila-Yetman, Becky Brumfield, Megan Ivey, Nicole Kemble, Gina Myers
7:45 AM - 8:15 AM SILVER	<b>BREAKOUT: Data Coordinator VON/CPQCC Session *</b> Becky Brumfield, Gina Myers
7:00 AM - 8:15 AM WINDOWS	<b>BREAKOUT: Physician and Nurse Site Sponsor Session *</b> Theresa Grover

### GENERAL SESSION (Morning)

GRAND BALLROOM

8:30 AM - 8:45 AM	<b>Welcome and Virtual Hospital Tour *</b> 2024 Host Site: St. Louis Children's Hospital and Washington University Physicians LaToya Daugherty, Melissa Riley
8:45 AM - 9:00 AM	<b>Platform Abstract Presentation: Nurse Workload and Missed Nursing Care in Neonatal Intensive Care Units</b> Heather Tubbs Cooley
9:00 AM - 9:15 AM	<b>Platform Abstract Presentation: Current State of Neonatology Staffing Practices – An In-Depth Exploration of US Neonatology Leaders' Perspectives</b> Milenka Cuevas Guaman
9:15 AM - 10:00 AM	<b>Keynote Speaker</b> Mehul V. Raval   <i>Building Toward Enhanced Neonatal Surgical Recovery</i>
10:00 AM - 10:45 AM	<b>BREAK</b>

### WORKSHOPS + BREAKOUT SESSIONS (Morning)

10:45 AM - 12:15 PM SILVER	<b>BREAKOUT: Data Coordinator Social *</b>
10:45 AM - 12:15 PM GRAND BALLROOM	<b>WORKSHOP: CHNC Compare Reporting *</b> Karna Murthy, Rebecca Rose
10:45 AM - 12:15 PM TOWER A	<b>WORKSHOP: A Data-Driven Approach to NeoPOCUS: Fostering Programmatic Innovation and Growth *</b> May W Chen, Sharada Hiranya Gowda, Tanzeema Hossain, Sandy Johng, Karena G. Lawrence, Stephanie M. Marshall, Monti Sharma, Rupin Sharma, Jennifer Shepherd, Jason Z Stoller
10:45 AM - 12:15 PM TOWER B	<b>WORKSHOP: Creating an Effective Quality Improvement Poster 1.0 *</b> Michele Barrila-Yetman, Joan Smith, Lamia Soghier
10:45 AM - 12:15 PM TOWER C	<b>WORKSHOP: Creating Collaborative NICU Environments to Support Teamwork and Trainee Education *</b> Nicolle Fernández Dyess, Erin L. Keels, Sarah Kohn, Mariam Susan LaTuga, Krishelle Marc-Aurele, Jennifer C Miller, Patrick Myers, Melissa Scala
10:45 AM - 12:15 PM TOWER D	<b>WORKSHOP: Nuts and Bolts of Screening and Brief Intervention for PMADs in Neonatal Intensive Care Units *</b> Lisa Boyars, Elizabeth Fischer, Joanne Lagatta, Megan Lagoski, Teresa O'Malley, Miller Shivers, Lamia Soghier, Sarah Swenson



## DAY TWO | TUESDAY, OCTOBER 29 (CONTINUED)

### WORKSHOPS + BREAKOUT SESSIONS (Afternoon)

**10:45 AM - 12:15 PM**  
**WINDOWS**      **WORKSHOP: Predicting the Future: Improving Understanding of Preimplantation and Prenatal Genetic Testing \***  
 Ellen Bendel-Stenzel, Bimal Chaudhari, Sabrina Malone-Jenkins, Katelyn Seither, Kristen Suhrie, Jennifer Wambach, Zachary Whitt

### LUNCH + BREAKOUT SESSIONS

**12:15 PM - 1:45 PM**  
**PARLOUR**      **LUNCH**

**12:15 PM - 1:45 PM**  
**TOWER D**      **TECaN/Fellows Academic Leader Lunch \***

**12:15 PM - 1:45 PM**  
**WINDOWS**      **BREAKOUT: Focus Group Leader Session \***

**12:15 PM - 1:45 PM**  
**SILVER**      **BREAKOUT: Data Coordinator Educational Session**  
 Kimberley Anderson, Michele Barrila-Yetman, Becky Brumfield, Megan Ivey, Nicole Kemble, Gina Myers

### WORKSHOPS + BREAKOUT SESSIONS (Afternoon)

**1:45 PM - 3:45 PM**  
**TOWER A**      **WORKSHOP: Addressing Health Disparities from the Start: Integrating SDOH Screening in the NICU \***  
 Erika Cordova Ramos, Yvette Johnson, Katherine McCallie

**1:45 PM - 3:45 PM**  
**TOWER B**      **WORKSHOP: Clinical Event Debriefing the Neonatal Intensive Care Unit \***  
 Anne Ades, Noorjahan Ali, Summer Elshenawy, Mary Haggerty, Lauren Heimall, Hannah B. Hightower, Chavis A. Patterson, Sofia I Perazzo, Lamia Soghier, Elizabeth Wetzel

**1:45 PM - 3:45 PM**  
**TOWER D**      **WORKSHOP: Combatting Distress, Dissatisfaction, and Discord: Creating a Psychologically-Minded NICU \***  
 Elizabeth Fischer, Shannon Hanson, Natasha Henner, Margaret Hoge, Melissa House, Megan Lagoski, Tierney Morrison, Chavis A. Patterson, Miller Shivers, Kathleen Stanton, Sarah Swenson

**1:45 PM - 3:45 PM**  
**WINDOWS**      **WORKSHOP: Fundamentals of Successful QI in the NICU: Taking a Project from Design to Publication \***  
 Roopali Bapat, Beverly Brozanski, Eugenia Pallotto, Anthony Piazza, Joan Smith

**1:45 PM - 3:45 PM**  
**TOWER C**      **WORKSHOP: Implementing an Interprofessional Safety Coach Program to Reduce Harm in a Level IV NICU \***  
 Paige Arndt, Beverly Brozanski, Karen Looper, Joan Smith, Luke Viehl

**1:45 PM - 3:45 PM**  
**GRAND BALLROOM**      **WORKSHOP: Moving Beyond Dopamine: Physiology-Based Management of Neonatal Hemodynamics \***  
 Sharada Hiranya Gowda, Ruth Seabrook

**3:45 PM - 4:30 PM**      **BREAK**

**4:30 PM - 5:30 PM**      **POSTER(LESS) SYMPOSIUM SESSIONS \***  
 View abstracts grouped into special interest topics. Each of these groupings will include a 10 minute presentation & moderated Q+A with the authors.

**TOWER C**

#### **BPD / RESPIRATORY**

Moderated by: Melissa House, Julie Weiner

**4:30 - 4:40 PM ECMO Candidacy and Respiratory Management During ECLS in Infants with Bronchopulmonary Dysplasia: Variations in Practice Among Neonatal and Pediatric Intensivists - John Ibrahim, Burhan Mahmood**



DAY TWO | TUESDAY, OCTOBER 29 (CONTINUED)

4:30 PM - 5:30 PM  
TOWER C

POSTER(LESS) SYMPOSIUM SESSIONS (Continued) \*

**BPD / RESPIRATORY**

Moderated by: Melissa House, Julie Weiner

4:40 - 4:50 PM **Serial Assessment of Lung Ultrasound Scores to Assess Response to Furosemide in Preterm Infants** - Ianna Blanchard, MD

4:50 - 5:00 PM **Improving Oxyhemoglobin Saturations Among Premature Infants with Bronchopulmonary Dysplasia Reduces Respiratory Related Readmissions after NICU Discharge** - Laura Bellew

5:00 - 5:10 PM **Endotracheal Tube Exchanges in Premature Infants with Late Evolving Chronic Lung Disease: Procedure Safety and Association with Improvement in Pulmonary Mechanics** - Mackenzie Parker

5:10 - 5:20 PM **Interpretable Machine Learning for Predicting Readmission in Infants with Bronchopulmonary Dysplasia: A Socioeconomic and Clinical Determinants Approach** - George El-Ferzli

5:20 - 5:30 PM **It Trach's a Village: Implementation of a Multidisciplinary Pre-Transition Huddle for Chronically Ventilated Infants in a Level IV NICU** - Sarah Velasco

4:30 PM - 5:30 PM  
TOWER A

**CARDIAC**

Moderated by: Paulomi Chaudhry, JD Hammonds

4:30 - 4:40 PM **Changing Landscape of Patent Ductus Arteriosus Management at CHNC Centers** - Mark F Weems

4:40 - 4:50 PM **Geographic Variation in the Racial Disparity in Infant Mortality Rates Due to Congenital Heart Disease in the United States** - Julia Behrend

4:50 - 5:00 PM **Development of an Advanced Neonatal Fellowship Extracorporeal Membrane Oxygenation (ECMO) Competency Program: Five-year Experience** - John Ibrahim, Burhan Mahmood

5:00 - 5:10 PM **Implementation of Delivery Room Echocardiography for Neonates with d-Transposition of the Great Arteries** - Emma Harding

5:10 - 5:20 PM **Clinical, Radiographic and Echocardiographic Characteristics of Patients Undergoing Transcatheter Occlusion of PDAs in the Premature Neonatal Population** - Mary Helen Camp

5:20 - 5:30 PM **Neonatal Outcomes Among Premature Infants with Congenital Heart Disease: A Multicenter Analysis** - Paulomi Mehta Chaudhry

4:30 PM - 5:30 PM  
SILVER

**CDH / ECMO**

Moderated by: Sandy Johng, Mihai Puia-Dumitrescu

4:30 - 4:40 PM **Improved Outcomes with a New Anti-Xa Based Neonatal ECMO Heparin Management Guideline** - Adriana Phillips

4:40 - 4:50 PM **Exploring the Relationship Between Prenatal Lung Volumes and Postnatal Lung Perfusion in Infants with CDH** - Mihai Puia-Dumitrescu

4:50 - 5:00 PM **Evaluation of Swallow Function in Patients with Congenital Diaphragmatic Hernia** - Nzuekoh N. Nchinda



DAY TWO | TUESDAY, OCTOBER 29 (CONTINUED)

POSTER(LESS) SYMPOSIUM SESSIONS (Continued) \*

4:30 PM - 5:30 PM  
SILVER

**CDH / ECMO**

Moderated by: Sandy Johng, Mihai Puia-Dumitrescu

5:00 - 5:10 PM **A Standardized Nutrition Guideline Improves Malnutrition at Discharge in Infants with CDH** - Patrick Sloan

5:10 - 5:20 PM **What is the Best C.O.A.R.S.E. of Action? A Simple Mnemonic to Streamline Care in Infants with CDH** - Kristen Clark

5:20 - 5:30 PM **Therapeutic Plasma Exchange and Plasmapheresis in Neonates Receiving Extracorporeal Membrane Oxygenation Support: A 10-year Single-center Experience** - Burhan Mahmood

4:30 PM - 5:30 PM  
TOWER B

**DEI / GENETICS / SAFETY / MISC**

Moderated by: Ann Downey, Helen Williams

4:30 - 4:40 PM **Inclusion of an Anti-Seizure Medication Weaning Protocol in an Institutional Seizure Pathway Reduces the Percent of Surviving Infants with Acute Provoked Seizures Discharged on Anti-Seizure Medication** - Anne Marie Nangle

4:40 - 4:50 PM **Neonatal Intensive Care Unit Racial Equity and Communication Study (NICU REACT)** - Lamia Soghier

4:50 - 5:00 PM **Enhancing Patient Safety by Reducing Automated Dispensing Cabinet Medication Overrides in a Level IV Neonatal Intensive Care Unit (NICU)** - Lynn Fuchs, Lauren Stracuzzi

5:00 - 5:10 PM **A Single-Center Experience of Neonates with Prenatally Diagnosed "Lethal" or "Severe" Osteogenesis Imperfecta Whose Parents Sought Medical Intervention After Birth** - Joanna Costa

5:10 - 5:20 PM **Outcomes from an Internal Rapid Genome Sequencing Program** - Bimal P. Chaudhari

5:20 - 5:30 PM **REALIZE Disparities in Regional Infant Mortality: A Systematic, Comprehensive Assessment of Recent Trends** - Meg Barcroft

4:30 PM - 5:30 PM  
TOWER D

**RENAL / VLBW**

Moderated by: Michel Mikhael, Jenny Rumpel

4:30 - 4:40 PM **The Association Between Pre-operative Clinical Status and Post-operative Acute Kidney Injury in Surgical Neonates** - Matthew Gillen

4:40 - 4:50 PM **Multidisciplinary Small Baby Team and Updated Golden Hour Guideline Improves the Admission Process in the Neonatal Intensive Care Unit** - Annie Parrott

4:50 - 5:00 PM **Racial Disparities in Acute Kidney Injury Prevalence in Infants Admitted to the level IV NICUs** - Sofia Perazzo

5:00 - 5:10 PM **Fluid Management and Hemofiltration Practices in Neonatal ECMO** - Leslie Lusk

5:10 - 5:20 PM **Improving Outcomes of Premature Infants Born at 22 0/7 to 23 6/7 weeks Gestation: A Multidisciplinary Quality Initiative** - George Mandy

5:20 - 5:30 PM **Reducing Metabolic Bone Disease of Prematurity in the Neonatal Intensive Care Unit: A Quality Improvement Initiative** - Shayla Percy



DAY TWO | TUESDAY, OCTOBER 29 (CONTINUED)

POSTER(LESS) SYMPOSIUM SESSIONS (Continued) \*

4:30 PM - 5:40 PM  
WINDOWS

GI / NEC

Moderated by: Pritha Nayak and Barb Warner

4:30 - 4:40 PM **The Microbial Metabolome and the Gut-Brain Axis in Infants with Neonatal Opioid Withdrawal Syndrome** - Keisha Wolfe

4:40 - 4:50 PM **Current State of Neonatal Intestinal Rehabilitation Care in North American Level IV NICUs: A Multi-institutional Survey** - Katie Huff

4:50 - 5:00 PM **Incidence of Probiotic Sepsis and NEC Risk in Preterm Infants: A Meta-analysis** - Keith Feldman

5:00 - 5:10 PM **Necrotizing Enterocolitis Following Spontaneous Intestinal Perforation in Extreme and Very Low Birth Weight Neonates** - Morgan Buchanan

5:10 - 5:20 PM **Early and Accurate Diagnosis of NEC / FIP: A Machine Learning Approach** - Shilpa Muralidhar

5:20 - 5:30 PM **Antenatal Butyrate Supplementation Improves Intestinal Barrier in Neonatal Murine Offspring** - Andrea Colarelli

5:30 - 5:40 PM **Biomarkers of Intestinal Injury in Neonatal ECMO** - Abigail Melemed

EVENING RECEPTION

5:00 PM - 6:30 PM  
NORTH  
CONVENTION LOBBY

RECEPTION \*

Enjoy light hors d'oeuvres and beverages and catch up with your neo-colleagues!

Supported by Medtronic, Platinum Sponsor



### DAY THREE | WEDNESDAY, OCTOBER 30

#### BREAKFAST + BREAKOUT SESSIONS

7:30 AM - 9:30 AM PARLOUR	<b>BREAKFAST</b>
7:30 AM - 9:00 AM HOTEL LOBBY	<b>CHNC FUN RUN/WALK Supporting the NEC Society *</b>
7:45 AM - 9:15 AM TOWER B	<b>BREAKOUT: Nurse Director/Nurse Site Sponsor Session *</b> Rebecca Rose, Joan Smith
8:00 AM - 9:00 AM SILVER	<b>WORKSHOP: Developing ELBW Standardized Guidelines: How Do We Start? *</b> Chelsea Baker, Susan Bedwell, Sam Levine, Ulana Pogribna, Kelli Satnes, Patricia Williams
8:00 AM - 9:00 AM TOWER D	<b>WORKSHOP: If You Pass Boards, Collect \$200!: What Games Teach Us About Learning *</b> Deb Lathrop, Namrita Odackal, Brigid O'Donnell, Janice Raucci, Lamia Soghier, Elizabeth Wetzel, Mary Woodward - On behalf of the CHNC Educational Advisory Committee
8:00 AM - 9:00 AM WINDOWS	<b>WORKSHOP: Towards Enhanced Neonatal Hemodynamic Care in the NICU: Initial Building Blocks Towards Establishing a Hemodynamics Program *</b> Philip Levy, Marjorie Makoni

#### GENERAL SESSION (Morning)

GRAND BALLROOM

9:30 AM - 9:45 AM	<b>Welcome and Opening Remarks *</b> Anthony Piazza, Kris Reber
9:45 AM - 10:00 AM	<b>CHNC Mentored Fellow Research Presentation: Neonatal-onset Urea Cycle Disorders: An Uncommon Mimicker of Common NICU Conditions</b> Whitney Thompson
10:00 AM - 10:15 AM	<b>Platform Abstract Presentation: Baby Eagle: Bringing Targeted Rapid Genomic Sequencing (rGS) to Critically Ill Neonates</b> K. Taylor Wild
10:15 AM - 10:30 AM	<b>Platform Abstract Presentation: Early Prediction of CPAP Failure in Very Preterm Neonates Utilizing Machine Learning</b> Louis Ehwerhemuepha
10:30 AM - 11:15 AM	<b>Keynote Speaker</b> Ryan McAdams   Guiding the AI Revolution: A Safer Future for Newborns
11:15 AM - 11:45 AM	<b>Awards &amp; Recognition and Closing Remarks *</b> Anthony Piazza, Kris Reber

\* CME credit not offered for this session.  
Information subject to change. All times are Mountain Daylight.  
All sessions require registration and may have capacity limits.



## Faculty Listing

Kimberley Anderson, BSN, RNC-NIC  
Clinical Nurse Database Abstractor  
Clinical Nurse II  
Children's Hospital Colorado

Anne Ades MD, MSED  
Professor of Clinical Pediatrics  
Children's Hospital of Philadelphia

Noorjahan Ali MD  
Associate Professor of Pediatrics  
UT Southwestern Medical Center

Paige Arndt, BSN, RN, CPPS, CPHQ  
Patient Safety/Quality Improvement Specialist  
St. Louis Children's Hospital

David Askenazi MD, MSPH  
Professor of Pediatrics-Division of Nephrology  
University of Alabama at Birmingham  
Medical Director-Pediatric and Infant Center for Acute  
Nephrology  
Children's of Alabama

Chelsea Baker  
Process Improvement Director  
Oklahoma Children's Hospital

Roopali Bapat MD, MSHQS ++  
Nationwide Children's Hospital

Meg Barcroft, DO  
Dual fellow, Neonatology + Quality & Safety Leadership  
Nationwide Children's Hospital

Michele Barrila-Yetman, MSN, RN ++  
Clinical Data Coordinator and Improvement Advisor  
Children's Hospital of Philadelphia

Lauren Beard, MD  
Assistant Professor of Pediatrics  
Children's Hospital Colorado  
Medical Director  
UCHealth Highlands Ranch Hospital NICU

Susan Bedwell, DNP, APRN, CCNS-N ++  
Neonatal Clinical Nurse Specialist  
Director of Quality  
Children's Hospital of Oklahoma

Julia Behrend, MD  
Pediatric Cardiology Fellow  
Lurie Children's Hospital of Chicago

Laura Bellew, MSN, RN  
BPD Center Program Coordinator  
Cincinnati Children's Hospital

Ellen Bendel-Stenzel, MD  
Associate Professor of Pediatrics  
Mayo Clinic

C. Briana Bertoni, MD, MBOE  
Medical Director for Neonatal Quality Improvement  
Atrium Health Levine Children's Hospital

Chelsea Bitler  
Graduate Medical Fellow  
Newborn Medicine  
Children's Hospital of Pittsburgh of UPMC

Ianna Blanchard, MD  
Neonatal-Perinatal Fellow  
University of Kentucky

Lisa Boyars, MD ++  
Assistant Professor  
Department of Psychiatry & Behavioral Sciences  
The University of Texas Dell Medical School

Beverly Brozanski, MD, CPHQ ++  
Vice Chair of Quality and Safety  
Department of Pediatrics  
Washington University School of Medicine  
CMO and Vice President of Pediatric Quality and  
Patient Safety for BJC HealthCare  
St. Louis Children's Hospital

Becky Brumfield, RCP  
NICU Database Coordinator/Abstractor  
UCSF Benioff Children's Hospital

Morgan N.V. Buchanan, M.P.H. M.D. Candidate  
Emory University School of Medicine

Mary Helen Camp, MD  
Categorical Pediatrics Resident PGY-3  
Children's Healthcare of Atlanta  
Emory University

Bimal P. Chaudhari, MD, MPH  
Assistant Professor of Pediatrics  
Associate Director of Biomedical Informatics  
The Ohio State University and Nationwide Children's Hospital

May W Chen, MD  
Assistant Professor of Pediatrics  
Associate Program Director, Neonatal-Perinatal Medicine  
Fellowship  
Director, Neonatal Point of Care Ultrasound Program  
Johns Hopkins Children's Center

Kristen Clark, NNP-BC  
St. Louis Children's Hospital

Andrea Colarelli, MD  
Pediatrics Resident  
Emory University

Heather L. Tubbs Cooley, PhD, RN, FAAN  
Associate Professor of Nursing  
The Ohio State University  
Principal Investigator  
Center for Perinatal Research  
Nationwide Children's Hospital

Erika (Gaby) Cordova Ramos, MD ++  
Neonatologist & Health Disparities Researcher  
Boston Medical Center

Joanna Costa, MD  
Neonatologist  
Nemours Children's Health

Milenka Cuevas Guaman, MD  
Associate Professor  
Baylor College of Medicine  
Program Director BPD Program  
Chair DEI Committee  
Texas Children's Hospital



## Faculty Listing

Daniela Dinu, MD  
Associate Professor  
Texas Children's Hospital

Nicolle Fernández Dyess, MD, Med ++  
Assistant Professor Pediatrics  
Children's Hospital Colorado

Louis Ehwerhemuepha, PhD  
Director, Computational Research  
Children's Hospital of Orange County

George El-Ferzli, MD, MBOE, EMBA  
Associate Professor of Pediatrics  
Director of Innovation, Division of Neonatology  
Nationwide Children's Hospital

Summer Elshenawy MD  
Assistant Professor of Pediatrics  
Children's Hospital of Atlanta

Jacquelyn Evans, MD  
Executive Director, CHNC

Keith Feldman, PhD  
Assistant Professor of Pediatrics  
Children's Mercy Kansas City

Elizabeth Fischer, PhD  
Assistant Professor  
Associate Chief Division of Pediatric Psychology  
and Behavioral Medicine  
Medical College of Wisconsin  
Children's Wisconsin

Jessica T. Fry, MD  
Associate Professor of Pediatrics  
Attending Physician in Neonatology and Palliative Care  
Ann & Robert H. Lurie Children's Hospital of Chicago

Lynn Fuchs, MD, MSHQS  
Clinical Assistant Professor of Pediatrics  
Sidney Kimmel Medical College  
Thomas Jefferson University  
Associate Medical Director  
Neonatology Nemours Children's Health

Matthew Gillen, MD  
Pediatric Nephrology Fellow  
Emory University School of Medicine

Sharada Hiranya Gowda, MD ++  
Co-Lead, CHNC POCUS Focus Group  
Curriculum Chair, SOECP-ECLA/LPAG  
Texas Children's Hospital

Theresa R. Grover, MD, MAS  
Associate Executive Director, CHNC  
Professor of Pediatrics  
University of Colorado School of Medicine  
Children's Hospital Colorado

Mary Haggerty, DO ++  
Attending Neonatologist  
Children's Hospital of Philadelphia

Shannon Hanson, PhD, MPH  
Wake Forest University School of Medicine

Emma Harding, MD  
Neonatal-Perinatal Medicine Fellow  
Children's Hospital of Colorado

Lauren Heimall, MSN, RNC-NIC, C-NNIC, PCNS-BC  
Clinical Nurse Specialist  
Newborn/Infant Intensive Care Unit  
Children's Hospital of Philadelphia

Natasha Henner, MD  
Ann & Robert H. Lurie Children's Hospital Chicago

Hannah B. Hightower, MD  
Associate Professor of Pediatrics, Neonatology  
Children's of Alabama  
University of Alabama Birmingham  
Heersink School of Medicine

Margaret Hoge, MD  
Children's Medical Center Dallas

Melissa House, MD  
Children's Healthcare of Atlanta

Tanzeema Hossain, MD, MBChB  
Assistant Professor of Pediatrics  
Harvard Medical School  
Director of Education, Newborn Medicine  
Department of Pediatrics  
Assistant Director, Stratus Center for Medical Simulation  
Brigham and Women's Hospital

Katie Huff, MD, MS  
Assistant Professor of Clinical Pediatrics  
Riley Children's Health

John Ibrahim  
Assistant Professor of Pediatrics  
Director of Quality Improvement  
Director of POCUS  
Division of Newborn Medicine | University of Pittsburgh School of  
Medicine  
UPMC Children's Hospital of Pittsburgh | Magee Women's Hospital  
of Pittsburgh

Megan Ivey, BSN, RN  
Clinical Data Coordinator  
Ann & Robert H Lurie Children's Hospital, Chicago

Sandy Johng, MD  
Assistant Professor of Pediatrics  
Co-Director, Neonatal POCUS Program  
Division of Neonatology, Department of Pediatrics  
University of Washington  
Seattle Children's Hospital

Yvette Johnson, MD ++  
Medical Director of NEST Developmental Follow-up Clinic  
Endowed Chair Neonatologist  
Cook Children's Hospital

Bryce Jorgensen, D.O., M.S.  
Assistant Professor of Pediatrics  
University of Minnesota

Jenna Katz, MD  
Instructor of Pediatrics  
Harvard Medical School  
Attending Neonatologist  
Boston Children's Hospital

Erin L. Keels, DNP, APRN-CNP, NNP-BC  
Director of Neonatal Advanced Practice Providers  
Nationwide Children's Hospital



## Faculty Listing

Sarah Keene, MD  
Associate Professor  
Emory School of Medicine  
Children's Healthcare of Atlanta

Nicole Kemble, RHIT  
Clinical Data Coordinator, RHIT  
Children's Hospital of Philadelphia

Sarah Kohn, MD  
Neonatal-Perinatal Medicine Fellow  
University of Colorado

Ann M. Kulungowski, MD +  
Associate Professor, Division of Pediatric Surgery  
University of Colorado  
Surgical Director, Vascular Anomalies Center  
Children's Hospital Colorado

Joanne Lagatta, MD, MS  
Professor, Pediatrics and Neonatology  
Medical College of Wisconsin  
Children's Wisconsin

Megan Lagoski, MD  
Assistant Professor of Pediatrics  
Medical Director, Bronchopulmonary Dysplasia Program  
Ann & Robert H. Lurie Children's Hospital of Chicago

Karena Gildea Lawrence, MD, MS ++  
Associate Professor of Pediatrics  
Director, Neonatal POCUS Program  
University of Colorado School of Medicine  
Children's Hospital Colorado

Deb Lathrop, MSN, RNC-NIC, NPD-BC  
Program Manager Neonatal Program  
Children's Health

Mariam Susan LaTuga, MD, MSPH  
Associate Professor of Pediatrics  
Albert Einstein College of Medicine  
Director of Neonatal Education  
The Children's Hospital of Montefiore

Sam Levine, MD  
Assistant Professor of Pediatrics Division of Neonatology  
The University of Oklahoma Health Sciences Center

Philip Levy, MD ++  
Boston Children's Hospital

Karen Looper, BSN, RN, CPN ++  
Manager of Patient Safety and Quality Improvement  
St. Louis Children's Hospital

Leslie Lusk, MD  
Medical Director  
UCSF Benioff Children's Hospital Oakland

Burhan Mahmood, MD FAAP  
Professor of Pediatrics, Neonatal-Perinatal Medicine  
Medical Director, Neonatal ECMO Program | Medical Director,  
CDH Program  
Division of Newborn Medicine | University of Pittsburgh School of  
Medicine  
UPMC Children's Hospital of Pittsburgh | Magee Womens Hospital  
of Pittsburgh

Marjorie M. Makoni, MD, MS ++  
Associate Professor of Pediatrics  
Neonatal Hemodynamics Specialist  
Director of Neonatal Hemodynamics  
Oklahoma Children's Hospital at OU Health

Sabrina Malone-Jenkins, MD  
Assistant Professor of Pediatrics  
Division of Neonatology  
Primary Children's Hospital and University of Utah

George Mandy  
Professor of Pediatrics  
Baylor College of Medicine/Texas Children's Hospital

Krishelle Marc-Aurele, MD  
Associate Professor of Pediatrics  
University of California, San Diego  
Fellowship Director and Vice Chair of GMCC  
Rady Children's Hospital

Stephanie M. Marshall, MD  
Assistant Professor of Pediatrics  
Northwestern University Feinberg School of Medicine  
Ann & Robert H. Lurie Children's Hospital of Chicago

Rebecca Martinez-Hannon, MD  
Assistant Professor of Pediatrics  
NICCU Co-Director of Quality and Process Improvement

Ryan M. McAdams, MD +  
Neonatologist, Division of Global Pediatrics  
Department of Pediatrics  
University of Wisconsin School of Medicine and Public Health

Katherine (Kari) McCallie, MD ++  
Epic Physician Builder  
Division of Neonatal & Developmental Medicine  
Stanford University School of Medicine

Paulomi Mehta Chaudhry, MD  
Medical Director, Heart Center NICU  
Assistant Professor of Clinical Pediatrics

Abigail Melemed, MD  
Neonatal-Perinatal Fellow  
Nationwide Children's Hospital

Jennifer C Miller, RN, BSN, MSN, NNP-BC  
Neonatal Nurse Practitioner  
Children's Hospital Colorado

Tierney Morrison, MD  
Boston Children's Hospital

Shilpa Muralidhar, Ph.D.  
Post Doctoral Fellow  
Texas Children's Hospital

Karna Murthy, MD, MSc  
Professor of Pediatrics  
Northwestern University Feinberg School of Medicine  
Attending Physician, Neonatology  
Ann & Robert H. Lurie Children's Hospital of Chicago  
Chair, CHNC

Gina Myers, RN  
Research Nurse Coordinator - Newborn Medicine  
Washington University School of Medicine  
St. Louis Children's Hospital

Patrick Myers, MD  
Associate Professor in Pediatrics  
Northwestern University Feinberg School of Medicine  
Fellowship Director  
Ann & Robert H. Lurie Children's Hospital of Chicago



## Faculty Listing

Anne Marie Nangle, MS, NNP-BC, CPNP- AC/PC  
Division of Neonatology, Department of Pediatrics  
Emory University School of Medicine  
Children's Healthcare of Atlanta

Sujir Pritha Nayak, MD  
UT Southeastern Medical Center

Nzuekoh N. Nchinda, MD  
Pediatric Surgery Research Fellow  
Seattle Children's Hospital

Namrita Odackal, DO ++  
Assistant Professor  
Nationwide Children's Hospital

Brigid O'Donnell, MD  
Assistant Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Attending Physician, Neonatology  
UPMC Children's Hospital of Pittsburgh

Teresa O'Malley, MSN, RN  
Programmatic Nurse Specialist NICU  
UPMC Children's Hospital

Michael A. Padula, MD, MBI, FAAP  
Professor of Clinical Pediatrics  
Senior Fellow, Institute of Biomedical Informatics  
Perelman School of Medicine, University of Pennsylvania  
Medical Director of Informatics, Division of Neonatology  
The Children's Hospital of Philadelphia

Eugenia K Pallotto, MD, MSCE, CPHQ ++  
Clinical Professor  
Wake Forest School of Medicine  
Division Chief, Neonatology  
Atrium Health Levine Children's Hospital

Mackenzie Parker, MD  
Children's Hospital of Colorado

Annie Parrott, MSN, RN, NNP-BC  
St. Louis Children's Hospital

Chavis A. Patterson, PhD ++  
Director of Psychosocial Services, Division of Neonatology  
The Children's Hospital of Philadelphia

Leeann Pavlek, MD, MSc +  
Assistant Professor of Pediatrics  
Division of Neonatology  
Nationwide Children's Hospital  
The Ohio State University College of Medicine

Sofia I Perazzo, MD  
Research Assistant Professor of Pediatrics  
Children's National Hospital  
George Washington University

Shayla Percy, MD  
Neonatal-Perinatal Medicine Fellow  
UPMC Children's Hospital of Pittsburgh

Adriana Phillips, MD  
Neonatal-Perinatal Medicine Fellow  
UPMC Children's Hospital of Pittsburgh

Anthony Piazza, MD ++  
Professor of Pediatrics  
Emory University School of Medicine  
Quality Improvement Director  
Children's Healthcare of Atlanta at Egleston  
CHNC Symposium Planning Committee Co-chair

Ulana Pogribna, MD, MPH, FAAP ++  
Neonatologist/Neonatal Quality and Patient Safety Officer  
Children's Hospital of Oklahoma

Mihai Puia-Dumitrescu, MD, MPH  
Assistant Professor of Pediatrics  
Associate Medical Director  
Seattle Children's Hospital

Rakesh Rao, MD  
Associate Professor of Pediatrics  
St. Louis Children's Hospital

Janice Raucci, PharmD, BCPPS  
Clinical Educator – Pharmacy Department,  
Critical Care Pharmacist – NICU & CICU,  
Ann & Robert H. Lurie Children's Hospital

Mehul V. Raval, MD, MS, FAAP, FACS +  
Orvar Swenson Founders' Board Chair in Pediatric Surgery  
Professor of Surgery and Pediatrics  
Northwestern University Feinberg School of Medicine  
Pediatric General and Thoracic Surgeon  
Ann & Robert H. Lurie Children's Hospital of Chicago  
Vice Chair, Quality and Safety  
Director, Pediatric Surgery Research Fellowship Program  
Faculty Principal Investigator, Center for Health Services &  
Outcomes Research  
Northwestern University Institute of Public Health and Medicine

Kristina Reber, MD  
Professor and Executive Vice Chair, Pediatrics  
Division Chief, Neonatology  
Shannon and Mark A. Wallace Endowed Chair  
Baylor College of Medicine | Texas Children's Hospital  
CHNC Symposium Planning Committee Co-chair

Aaron Rose, MBA, CPHQ  
CIQI Program Manager, CHNC

Rebecca S Rose, MD, MS  
Associate Professor of Clinical Pediatrics  
Neonatology Assistant Chief of Quality  
Interim Medical Director, Riley Simon Family Tower NICU  
Co-Chair, IUSM Faculty Quality Improvement Portfolio  
Committee

Kelli Satnes, DNP, APRN, CNP  
NNP Manager, Neonatal-Perinatal Medicine  
Oklahoma Children's Hospital

Melissa Scala, MD  
Clinical Associate Professor  
Stanford University

Jeffrey S Shenberger, MD  
Professor of Pediatrics  
Chief of Neonatology  
Connecticut Children's Hospital

Ruth Seabrook, MD ++  
Associate Professor of Clinical Pediatrics  
Medical Director, Neonatal ECMO  
Director of Neonatal-Perinatal Care, The Fetal Center  
Nationwide Children's Hospital

Katelyn M. Seither, MD  
Assistant Professor, Neonatology  
Cincinnati Children's Hospital

Abhineet (Monti) Sharma, MD  
Assistant Professor of Pediatrics  
University of Nebraska Medical Center  
Children's Nebraska



## Faculty Listing

Rupin Sharma, MD  
Assistant Professor of Pediatrics,  
University of Kentucky School of Medicine  
Kentucky Children's Hospital

Jennifer Shepherd, MD  
Assistant Professor of Clinical Pediatrics  
Associate Medical Director, CHLA NICCU  
Associate Director of Hemodynamics and POCUS  
Fetal and Neonatal Institute, Division of Neonatology  
Children's Hospital Los Angeles, Department of Pediatrics  
Keck School of Medicine of USC

Miller Shivers, PhD  
Assistant Professor of Psychiatry and Behavioral Sciences  
Director, Lurie Children's Little Ones  
Ann & Robert H. Lurie Children's Hospital of Chicago

Yogen G. Singh, MD, MA, FASE, FRCPC  
Professor of Pediatrics  
Director, TNE, Hemodynamics and POCUS  
UC Davis School of Medicine  
UC Davis Children's Hospital

Patrick Sloan, MD  
Assistant Professor of Pediatrics  
Assistant Medical Director  
St. Louis Children's Hospital

Joan Smith, PhD, RN, NNP-BC, FAAN ++  
Director Quality, Safety & Practice Excellence  
St. Louis Children's Hospital

Lamia Soghier, MD, MEd ++  
Professor of Pediatrics  
George Washington University School of Medicine and Health  
Sciences  
Medical Director and Quality & Safety Officer  
Children's National Hospital

Amy Stanford, MD  
Clinical Assistant Professor  
Stead Family Department of Pediatrics, Division of Neonatology  
University of Iowa Stead Family Children's Hospital

Kathleen Stanton, PhD  
Dell Children's Hospital

Jason Z. Stoller, MD  
Professor of Clinical Pediatrics  
University of Pennsylvania Perelman School of Medicine  
Children's Hospital of Philadelphia

Christine Stoops, DO, MPH, FAAP  
Associate Professor of Pediatrics  
Children's of Alabama  
University of Alabama at Birmingham

Lauren Stracuzzi, MSN, RNC-NIC  
Nemours Children's Health

Kristen R. Suhrie, MD  
Associate Professor of Clinical Pediatrics and Medical and  
Molecular Genetics, Division of Neonatal-Perinatal Medicine  
Director, Perinatal Genetics  
Riley Children's Hospital | IU Health

Sarah A. Swenson, MD, Dphil  
Assistant Professor of Pediatrics  
Division of Neonatology  
University of Nebraska Medical Center

Whitney Thompson, MD  
Assistant Professor of Pediatrics  
Assistant Professor of Medical Genetics  
Fellow, Neonatal-Perinatal Medicine & Medical Genetics  
Clinician Investigator Program Trainee, Center for Individualized  
Medicine  
Mayo Clinic

Sarah Velasco, DNP, FNP-C, RNC-NIC  
Clinical Practice Specialist  
Children's Hospital Colorado

Luke Viehl, MD  
Instructor of Pediatrics  
Washington University School of Medicine  
Attending Physician, Newborn Medicine  
St. Louis Children's Hospital

Jennifer Wambach, MD, MS  
Associate Professor of Pediatrics  
Co-Program Director, Neonatal Perinatal Medicine Fellowship  
Washington University School of Medicine  
St. Louis Children's Hospital

Mark F Weems, MD  
Associate Professor of Pediatrics  
Medical Director  
Le Bonheur Children's Hospital NICU

Elizabeth Wetzel, MD, MS  
Assistant Professor of Clinical Pediatrics  
Division of Neonatal-Perinatal Medicine  
Riley Children's Hospital | IU Health

Zachary Whitt, MD, FAAP, FACMG PGY-5 ++  
Emory University

K. Taylor Wild, MD  
Neonatologist  
Children's Hospital of Philadelphia

Patricia Williams, MD  
Associate Professor of Pediatrics  
University of Oklahoma Health Sciences Center  
Senior Medical Director & Associate Chief NICU  
Oklahoma Children's Hospital

Keisha Wolfe, DO  
Clinical Instructor of Pediatrics  
George Washington University School of Medicine and Health  
Sciences  
Children's National Medical Center

Mary Woodward, MD, MSc, FRCPC  
Assistant Professor, University of Toronto  
Staff Neonatologist, Division of Neonatology  
The Hospital for Sick Children



## CHNC Leaders and Staff

### CHNC BOARD AND EXECUTIVE COMMITTEE

**Beverly Brozanski, MD, CPHQ**

Vice Chair of Quality and Safety  
Department of Pediatrics  
Washington University School of Medicine  
CMO and Vice President of Pediatric Quality and Patient Safety for BJC HealthCare  
St. Louis Children's Hospital

**Theresa Grover, MD, MAS**

Professor of Pediatrics  
University of Colorado School of Medicine  
Children's Hospital Colorado

**Joanne Lagatta, MD, MS**

Professor of Pediatrics  
Medical College of Wisconsin, Division of Neonatology  
Children's Wisconsin

**Karna Murthy, MD, MSc**

Professor of Pediatrics  
Northwestern University Feinberg School of Medicine  
Attending Physician, Neonatology  
Ann & Robert H. Lurie Children's Hospital of Chicago  
& Prentice Women's Hospital  
Chair, CHNC

**Michael A. Padula, MD, MBI, FAAP**

Professor of Clinical Pediatrics  
Senior Fellow, Institute of Biomedical Informatics  
Perelman School of Medicine, University of Pennsylvania  
Medical Director of Informatics, Division of Neonatology  
The Children's Hospital of Philadelphia  
Vice Chair, CHNC

**Eugenia K Pallotto, MD, MSCE, CPHQ**

Clinical Professor  
Wake Forest School of Medicine  
Division Chief, Neonatology  
Atrium Health Levine Children's Hospital  
Treasurer, CHNC

**Anthony Piazza, MD**

Professor of Pediatrics  
Emory University School of Medicine  
Quality Improvement Director for the Division of Neonatal-Perinatal Medicine  
Children's Healthcare of Atlanta at Egleston  
Secretary, CHNC

**Kristina Reber, MD**

Professor and Exec Vice Chair, Pediatrics  
Division Chief, Neonatology  
Shannon and Mark A. Wallace Endowed Chair  
Baylor College of Medicine  
Texas Children's Hospital

**Billie Lou Short, MD**

Chief, Division of Neonatology  
Children's National Hospital  
Professor of Pediatrics  
The George Washington School of Medicine

**Joan Smith, PhD, RN, NNP-BC, FAAN**

Director Quality, Safety & Practice Excellence  
St. Louis Children's Hospital

**Lamia Soghier, MD, MEd**

Professor of Pediatrics  
George Washington University School of Medicine and Health Sciences  
Medical Director and Quality & Safety Officer  
Children's National Hospital

### CHNC STAFF

**Jacquelyn Evans, MD**

Executive Director

**Theresa Grover, MD, MAS**

Associate Executive Director

**Kelli Johnson**

Program Coordinator

**John Mallett**

Director, Data & Analytics

**Aaron Rose, MBA, CPHQ**

CIQI Program Manager

**Darian Younger**

Database Manager



## Symposium Acknowledgments

### EVENT HOST



Sincere thanks to our 2024 CHNC Symposium Host Site  
**St. Louis Children's Hospital and Washington University Physicians**

Planning Team:

Beverly Brozanski, LaToya Daughrity, Virginia Marion-Lowe, Edie Richardson,  
Melissa Riley

### SYMPOSIUM PLANNING COMMITTEE

#### Co-chairs:

Anthony Piazza, Kris Reber

#### Planning Committee:

Jackie Evans, Theresa Grover, Kelli Johnson  
John Mallett, Karna Murthy, Aaron Rose

### THE INCUBATOR PODCAST



Thank you to **The Incubator Podcast** for returning to the Symposium!  
Benjamin Courchia, Daphna Yasova Barbeau



## Continuing Education

### CONTINUING MEDICAL EDUCATION (CME)

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Connecticut Children's and the Children's Hospitals Neonatal Consortium. Connecticut Children's is accredited by the ACCME to provide continuing medical education for physicians. Connecticut Children's designates this live activity for a maximum of 6.5 AMA PRA Category 1 Credits™.

Physicians should claim only credits commensurate with the extent of their participation in the various activities.

MOC Part 2: Successful completion of this CME activity, which includes participation in the activity and individual assessment of and feedback to the learner, enables the learner to earn up to 6.5 MOC points in the American Board of Pediatrics' (ABP) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABP MOC credit.

Evaluations must be completed by November 27, 2024.



### CONTINUING NURSING EDUCATION (CNE)

Abbott Nutrition Health Institute is an approved provider of continuing nursing education by the California Board of Registered Nursing Provider #CEP 11213

Evaluations must be completed by November 27, 2024.



### CERTIFIED PROFESSIONAL IN HEALTHCARE QUALITY (CPHQ)

This activity/program is approved by NAHQ® for 11.75 CPHQ Credits.



## Commercial Support

THE FOLLOWING PROVIDED COMMERCIAL SUPPORT TO THE  
2024 CHNC ANNUAL SYMPOSIUM:

### COMMERCIAL EXHIBITORS

---

Abbott Nutrition  
Angel Eye Health  
Baylor Genetics  
Bunnell  
Chiesi USA  
Fisher & Paykel Healthcare  
GeneDx  
Happiest Baby  
Illumina  
Karl Storz  
Medtronic  
Ony Biotech  
Prolacta Bioscience  
Rady Children's Institute for Genomic Medicine  
Reckitt | Mead Johnson  
Registry Partners  
Rocky Mountain Children's Health Foundation | Mothers' Milk Bank

### HOSPITAL EXHIBITORS

---

Children's Hospital Colorado  
Children's National Hospital  
Intermountain Health | Primary Children's Hospital  
Oklahoma Children's Hospital | OU Health  
St. Louis Children's Hospital | Washington University Physicians  
Texas Children's Hospital | Baylor College of Medicine

### EDUCATIONAL GRANT SPONSORS

---

Children's of Alabama  
Aerogen Pharma  
Baylor Genetics  
Children's National Hospital  
Medela  
Medtronic  
Nationwide Children's Division of Neonatology  
Rady Children's Institute for Genomic Medicine  
Reckitt | Mead Johnson Nutrition  
St. Louis Children's Hospital | Washington University Physicians  
Texas Children's Hospital | Baylor College of Medicine  
UPMC Children's Hospital of Pittsburgh  
Vapotherm