

# Yale Pediatrics Research Forum

## Abstracts

Please contact [anna.cuomo@yale.edu](mailto:anna.cuomo@yale.edu) with any questions.

### Forum Objectives

- *To foster intellectual curiosity and a spirit of inquiry among our trainees (residents, fellows and medical students).*
- *To provide a forum for trainees to present their research projects.*
- *To encourage research relationships and aid in career development.*
- *To foster the development of research and presentation skills.*

Speaker: **Arthur Horwich, MD**, "*Pediatric Residency at Yale, 1975-78, and the Trail Beyond with a Few Reflections*"

This forum will allow trainees an opportunity to present their work to a wide audience of faculty members and other trainees within Pediatrics and in other Yale departments.

### Scientific Poster Presenters:

Michaela Bamdad, JD Dziura, WE Hellenbrand, CG Weismann

**Abstract 1:** Normal Pediatric Data for Isovolumic Acceleration at the Lateral Tricuspid Valve Annulus: A Heart Rate Dependent Measure of Right Ventricular Contractility

Christen Chamberland, L Sugeng, S Abraham, CG Weismann

**Abstract 3:** Measurement of Aortic Annulus Eccentricity Using Three-Dimensional Echocardiography in Children with Bicuspid versus Tricuspid Aortic Valves

Oana de Vinck-Baroody, A Shui, E Macklin, S Hyman, J Leventhal, C Weitzman

**Abstract 4:** Overweight and Obese Status in a Sample of Children with Autism Spectrum Disorders

Florencia del Viso, A Duncan, M Brueckner, M Khokha

**Abstract 5:** Nucleoporins Affect Left-Right Patterning in *Xenopus tropicalis*

Jennie Yuhas Duffy, M Hughes, A Asnes, J Leventhal

**Abstract 6:** Reports to Child Protective Services (CPS) Among Participants in a Child Abuse and Neglect Prevention Program: Risk Factors for Substantiation and Multiple Reports

Beth Emerson, ER Bradley, A Riera, L Mayes, K Bechtel

**Abstract 7:** Postpartum Depression Screening in a Pediatric Emergency Department

Sarah Fuchs, Amy Amin, M Vázquez

**Abstract 8:** Assessing the Success of a New Mentorship Program for Pediatric Residents at Yale that Created Mentor-Mentee and Peer-Mentee Relationships

Carina Gerveshi, S Kulkarni, M Khokha

**Abstract 9:** The Role of WDR5 in Cilia Structure and Nodal Flow Affecting L-R Development

Emily Greenstein, CG Weismann, JT Fahey, J Stein

**Abstract 10:** Diastolic Dysfunction and Increased Aortic Stiffness in Hypertensive Children: Implications for Clinical Practice

John Griffin, S Sondalle, K McCann, S Baserga, M Khokha

**Abstract 11:** Ribosome Biogenesis and Craniofacial Development: The Role of Nol11

Emily Gritz, Y Maksimova, VP Schulz, PG Gallagher

**Abstract 12:** Recurrent Fatal Multisystem Inflammatory Disorder in Infancy Due to Deletion of the IL-1 Receptor Antagonist (DIRA)

Soo Hyun Kwon, J Benjamin, E Myers, C Lacadie, M Qiu, Z Liu, K Schneider, RT Constable, L Ment

**Abstract 13:** Making Early Connections: The Role of NAA/Choline in Resting State Functional Connectivity in Preterm and Term Infants

Gunjan Kamdar, D Balmer, L Tilt, D Kessler, K Khanna, G Srivastava, T Chang, K Owen, M Auerbach

**Abstract 14:** Supervisors' Evaluation of Trainees' Procedural Readiness: A Qualitative Analysis

Saurabh Kulkarni, M Lane, M Khokha

**Abstract 15:** Efficient Targeted Gene Knockdown in *Xenopus tropicalis* Embryos Using TALENS

Sean Lang, V Bhandari, JS Giuliano Jr

**Abstract 16:** Plasma Angiopoietin Levels in Children Following Cardiopulmonary Bypass and Modified Ultrafiltration

Allison Langs-Barlow, L Renner, K Katz, V Northrup, E Paintsil

**Abstract 17:** Clinical Screening for HAART Induced Mitochondrial Toxicity in HIV-Infected Children in a Resource Limited Setting

Samantha Lau, X Lu, L Balsamo, M Devidas, N Winick, S Hunger, W Carroll, L Stork, K Maloney, N Kadan-Lottick

**Abstract 18:** Family Life Events in the First Year after Diagnosis of Standard Risk Acute Lymphoblastic Leukemia (SR-ALL): A Report from Children's Oncology Group (COG) AALL0331

Jennifer K. Leung, JM Leventhal, C Weitzman, K Pelphrey, R Jou

**Abstract 19:** Abnormal Neural Connectivity in Autism: A Diffusion Tensor Imaging Study

Sherene Mason, C Hader, G Moeckel, L Cantley

**Abstract 20:** Proximal Tubule-Specific Deletion of the Met Receptor Results in Impaired Cytoprotection and Repair After Renal Ischemic Injury

Regina Myers, X Lu, L Balsamo, W Carroll, S Hunger, N Winick, M Devidas, K Maloney, N Kadan-Lottick

**Abstract 22:** Prospective, Longitudinal Assessment of Quality of Life in Children on Active Treatment for Standard-Risk Acute Lymphoblastic Leukemia: A Report from Children's Oncology Group AALL0331

Regina Myers, L Balsamo, W Carroll, S Hunger, N Winick, M Devidas, X Lu, K Maloney, N Kadan-Lottick

**Abstract 23:** A Prospective Study of Anxiety, Depression and Behavioral Changes in the First Year after Diagnosis of Acute Lymphoblastic Leukemia

Nicole Nadeau, MX Cicero

**Abstract 24:** Pediatric Disaster Triage System Utilization across the United States

Melissa Nelson, PG Gallagher, MJ Bizzarro

**Abstract 25:** Changes in Colonization and Infection with Methicillin-resistant Staphylococcus aureus (MRSA) in a NICU

Melissa Nelson, Y Maksimova, VP Schulz, MJ Bizzarro, PG Gallagher

**Abstract 26:** Leclercia adecarboxylata: An Emerging Pathogen in Neonatal Sepsis

Nneka I. Nzegwu, T Mack RT, R DellaVentura, L Dunphy, N Koval, O Levit, V Bhandari

**Abstract 27:** RAM Nasal Cannula (NC) Use in the Neonatal Intensive Care Unit (NICU): A Quality Improvement Project

Rachel Osborn, A Berkwitt

**Abstract 28:** The Utility of 6-Hour Rebound Bilirubin Levels in Otherwise Healthy Neonates Admitted for Phototherapy

Miladys M. Palau-Collazo, P Rose, K Sikes, G Kim, A Urban, S Weinzimmer, W Tamborlane

**Abstract 29:** A Special Spanish Language Pediatric Diabetes Clinic: Overcoming Cultural and Language Barriers to Optimal Control of Type 1 Diabetes in Hispanic Youth

Ameeben Patel, A Bazy-Asaad, CG Weismann, P Weiss, N Kadan-Lottick

**Abstract 30:** Detection of Early Right Ventricular (RV) Dysfunction in Childhood Cancer Survivors with Restrictive Lung Disease Using Quantitative Echocardiographic Methods

Aileen Raizner, R Fiorotto, C Spirli, M Strazzabosco

**Abstract 31:** The Role of Notch Signaling in Hepatic Stellate Biology and in Epithelial-mesenchymal Interaction during Tubule Formation

Elizabeth Rawson, AG Asnes

**Abstract 32:** Parental Attitudes toward Screening for Precipitants of Toxic Stress in the Primary Care Pediatric Setting

Andrew Robson, J Griffin, M Brueckner, M Khokha

**Abstract 33:** The Role of Cilia Related Protein during Left-Right Patterning in the Developing Embryo

Alexis L Rodriguez, N George, M Vázquez, V Gómez

**Abstract 34:** A Study of the Etiology of Viral Gastroenteritis in the Pediatric Population at Robert Reid Cabral Hospital for Infants and Children (HIRRC)

Justin Rowberry, S Macari, G Chen, D Campbell, K Chawarska

**Abstract 35:** Screening for Autism Spectrum Disorders in High-Risk Siblings Using the First Year Inventory

Anita Thomas, A Riera

**Abstract 36:** Evaluation of a Spanish Language Pediatric Asthma Educational Video

Daisy Xin

**Abstract 37:** Lof1 Contributes to Cilia Function and Left-Right Specification in *Xenopus tropicalis*

Inci Yildirim, A Stevenson, K Hsu, SI Pelton

**Abstract 38:** Evolving Picture of Invasive Pneumococcal Disease in Massachusetts Children: A Comparison of Disease in 2007-2009 with Earlier Periods

Rajitha Devadoss, M Vázquez, N Kumarasamy

**Abstract 39:** Prevalence and Determinants of HIV Status Disclosure Among HIV-Infected Children Enrolled in a Clinical Care Program in South India: Implications for Pediatric HIV Care Delivery and Support in Resource-Limited Settings

Mona Khattab, M Bizzarro

**Abstract 40:** Ear Drainage and the Role of Sepsis Evaluations in the Neonatal Intensive Care Unit

Mona Khattab, L Johnston

**Abstract 42:** Utilization of Photographic Images during Prenatal Consultation to Potentially Alleviate Parental Stress and Anxiety Associated with Infants' Admission to a Neonatal Intensive Care Unit (NICU)

Jeff Tornheim, DF Lozano, RH Gilman, M Castellon, MA Solano, W Sullca, F Torrico, C Bern

**Abstract 43:** Improved Completion Rates and Characterization of Drug Reactions with an Intensive Chagas Disease Treatment Program in Rural Bolivia

Adam Bullock, M Langan

**Abstract 44:** Capnography during Critical Events in the Emergency Department: Impact of the 2010 American Heart Association Guidelines