



PAS 2025

Presentations and Posters

The following list includes all PAS presentations and posters featuring Children's Healthcare of Atlanta and Emory University faculty and trainees. For a full list or additional details on any of the presentations or posters below, please reference the full 2025 PAS Program Guide.



PRESENTATIONS

Pre-Conference Event

7 a.m. to 12:15 p.m. | Convention Center 302

**PAS Post-Graduate Course: Neo Aki: Neonatal Nephrology—Acute Kidney Injury and So Much More!
A Post-Graduate Course Updating Neonatologist and Nephrologists on An Evolving Field**

Chair: Matthew Gillen, MD, Fellow

Pre-Conference Event

8 a.m. to 2 p.m. | Convention Center 313B

The Society for Pediatric Sedation Provider Course

Chair: Rebecca Burger, MD

Pre-Conference Event

9:55 to 10:30 a.m. | Convention Center: 308

Comprehensive Review & Updates in Pediatric Kidney Transplantation—From Aloha to A Hui Hou

Presentation: **Dealing With Rejection—Acute and Chronic Management**

Speaker: Rouba Garro, MD

Workshop

4 to 5:30 p.m. | Convention Center: 325

Beyond the 5 Rights: A Workshop on Designing Better Clinical Decision Support

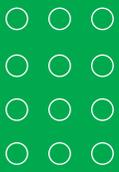
Co-Leaders: Mark Mai, MD, MHS; Bayley Bennett, MD, Fellow

Workshop

4 to 5:30 p.m. | Convention Center: 305

Advocating in Uncertain Times: Mitigating Moral Distress

Co-Leader: Leonidas Panagiotakopoulos, MD



POSTER SESSION I | 5:30 TO 7:45 P.M. | Convention Center: Kamahameha Exhibit Hall

Development and Validation of a Novel Machine Learning Model to Predict Pharmacologic Closure of Patent Ductus Arteriosus

Presenting author: Puneet Sharma, MD

A Descriptive Study of the Experience of Urinary Catheterization in Children and Adolescents

Presenting author: Sandeep Riar, MD

Pediatric Nephrology Simulation-Based Curriculum: Hypotension During Hemodialysis

Presenting author: Rajavee Panchal, MD, Fellow

Management of Post-Hemorrhagic Ventricular Dilation: Identification and Comparison of Treatment Pathways From Level IV NICUs in North America

Presenting author: Elizabeth Sewell, MD

The Building Blocks of Pediatric Readiness: Using Organizational Hierarchy to Identify Targets for Collaborative Improvement of National Pediatric Readiness Project Scores at a Large Public Hospital

Presenting author: Alexandra Monroe, MD, MPH

Machine Learning Approaches to Identify Neonates at Risk for Post-Discharge Mortality in Dar es Salaam, Tanzania and Monrovia, Liberia

Presenting author: Chris Rees, MD, MPH

Antimicrobial-resistant bacteria from post-mortem culture isolates in Kenya: An emerging threat

Presenting author: Chris Rees, MD, MPH

Representation of Authors From Low- and Middle-Income Countries (LMICs) in Invited Editorials on Publications from LMICs

Presenting author: Chris Rees, MD, MPH

Early parental structure supports language outcomes in formerly preterm infants

Presenting author: Mary Lauren Neel, MD, MSCI

Impact of Location and Capabilities of a Referring Facility on Diagnostic Discordance in Pediatric Patients Transferred to a Pediatric Intensive Care Unit

Presenting author: Ingrid Frydson, MD, Fellow

Incidence rate and clinical variables affecting the progression of intraventricular hemorrhage grade in premature neonates after the first week of life: a retrospective review study

Presenting author: Jasmeka McCord, MD, Fellow



PRESENTATIONS

Oral Abstract

7 to 8:30 a.m. | Convention Center: 312

Neonatal Neurology 2: Neurodevelopment

Moderator: Nathalie Maitre, MD, PhD

Workshop

7 to 8:30 a.m. | Convention Center: 323

Paging Your Future: A Step-by-Step Guide to Landing Your First Dream Job in Academic Medicine

Co-Leader: Roselyn Appenteng, MD

Hot Topic Symposia

7 to 8:30 a.m. | Convention Center: 319

Pearls of Pediatric GI

Presentation: **Abdominal Pain in Children—Beyond Organic Causes; How to Approach and Treat Successfully**

Speaker: Jose Garza, MD, MS

Networking Breakout

8:50 to 9:50 a.m. | Convention Center 325

Subspecialty Networking Breakout: Building a Sustainable Pediatric Nephrology Workforce and Research Career

Facilitator: Larry Greenbaum, MD, PhD

Networking Breakout

8:50 to 9:50 a.m. | Convention Center 319

Subspecialty Networking Breakout: Addressing the Pediatrics Workforce Crisis

Facilitator: Brenda Poindexter, MD, MS

Networking Breakout

8:50 to 9:50 a.m. | Convention Center: 303

Subspecialty Networking Breakout: Developmental-Behavioral Pediatrics and NICU Follow Up

Facilitators: Salathiel Kendrick-Allwood, MD; Nathalie Maitre, MD, PhD; Mary Lauren Neal, MD, MSCI

Networking Breakout

8:50 to 9:50 a.m. | Convention Center: 324

Subspecialty Networking Breakout: NEC

Facilitator: Ravi Patel, MD, MSc

Networking Breakout

8:50 to 9:50 a.m. | Kalakaua Ballroom B (Level 4)

Subspecialty Networking Breakout: Emergency Medicine and Sedation

Chair: Rebecca Burger, MD

Workshop

10 to 11:30 a.m. | Convention Center: 306

Antimicrobial Stewardship Can Be Everybody's Business: Improving Antibiotic Use in Your Specialty

Co-Leader: Shabnam Jain, MD, MPH

Workshop

10 to 11:30 a.m. | Convention Center: 323

Moving Upstream: Creating Targeted Interventions to Address Structural Racism in Clinical Settings

Co-Leader: Michelle-Marie Peña, MD



PAS 2025 | Saturday, April 26

Hot Topic Symposia

10 to 11:30 a.m. | Convention Center: 318 B

New Frontiers in Gene Therapy: From the Lab to Cures for Kids

10:25 to 10:45 a.m. *Presentation: Gene Therapy for Sickle Cell Disease*

Chair: Ann Chahroudi, MD, PhD

Speaker: Vivien Sheehan, MD, PhD

Oral Abstract

11 to 11:15 a.m. | Convention Center: 328

Technology 1: AI/Machine Learning

Presentation: Development of a Novel Deep Learning Model for the Interpretation of Neonatal Radiographs

Presenting Author: Puneet Sharma, MD

Club in Conv Center

11:40 a.m. to 12:55 p.m. | Convention Center: 315

Necrotizing Enterocolitis (NEC) Focus Group

Chair: Ravi Patel, MD, MSc

Club in Hotel

11:40 a.m. to 12:05 p.m. | Sheraton Waikiki Beach Resort: Lanai Room (Level 2)

NICU Follow Up Club

Presentation: Moving Forward and Making a Difference: Early Surveillance of Motor Disorders

Speaker: Nathalie Maitre, MD, PhD

Panel Discussion

1 to 2:30 p.m. | Convention Center 316A

What Can a Sedation Service Do for You? Moving Procedural Care Out Of the Operating Room

Chair and Speaker: Carmen Sutton, MD

Hot Topic Symposia

1 to 2:30 p.m. | Convention Center: 317

Looking through the same lens: Integrating pediatric cardiology and neonatology for optimal hemodynamic care in the NICU

1:05 to 1:15 p.m. *Presentation: Impact of Cardiac POCUS on Neonatal Hemodynamic Care in the NICU—*

Measurable Gain or Blind Losses

Speaker: Shazia Bhombal, MD

Oral Abstract

1:45 to 2 p.m. | Kalakaua Ballroom C (Level 4)

Neonatal Nephrology/AKI

Presentation: Two-year Neurodevelopmental Outcomes Among Infants with Recurrent Acute Kidney Injury: A Report From the ALMOND Study

Presenting Author: Matthew Gillen, MD, Fellow

Oral Abstract

1:45 to 2 p.m. | Convention Center: 328

Infectious Diseases 2

Presentation: Identification of HIV and Syphilis Screening Patterns in Pediatric Emergency Departments

Presenting Author: Lauren Middlebrooks, MD



POSTER SESSION II | 2:30 TO 4:45 P.M. | Convention Center: Kamahameha Exhibit Hall

Post-Operative Acute Kidney Injury in Surgical Neonates: A Secondary Analysis of the ADVANCE Cohort

Presenting author: Matthew Gillen, MD, Fellow

Echocardiographic Detection of Pulmonary Hypertension and Right Ventricular Failure in Infants With Bronchopulmonary Dysplasia: An International Survey of the BPD Collaborative

Presenting author: Shazia Bhombal, MD

Echocardiography for Detection of Pulmonary Hypertension in Infants With Severe Bronchopulmonary Dysplasia: Data From Guideline Implementation

Presenting author: Shazia Bhombal, MD

N-Terminal Prohormone of Brain Natriuretic Peptide (NT-proBNP) is High in Children With Sickle Cell Disease (SCD) Hospitalized for Vaso-occlusive Pain Episodes (VOE)

Presenting author: Dunia Hatabah, MD, Fellow

Procalcitonin Elevation in Patients With Sickle Cell Disease (SCD) Hospitalized for Vaso-Occlusive Pain Episodes (VOE)

Presenting author: Rawan Korman, MD, Research Fellow

Leading the Charge: A Survey of Pediatric Physician Leaders

Presenting author: Caroline Young, MD, Fellow

A Perinatal Periods of Risk Analysis to Examine Excess Feto-Infant Mortality in Georgia's Six Perinatal Regions, 2018-2022

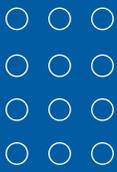
Presenting author: Mattie Wolf, MD, MSc

Let's Huddle! Addressing Discharge Barriers and Improving Patient Flow

Presenting author: Whitney Sherry, MD

Antenatal Butyrate Supplementation Reduces Intestinal Injury in Neonatal Murine Offspring

Presenting author: Maria Barbian, MD



PRESENTATIONS

APA SIG

7 to 8:30 a.m. | Convention Center: 304

APA Combined SIG: Global Health and Emergency Medicine | Addressing Human Trafficking in the Emergency Department

SIG Chair: Chris Rees, MD, MPH

Oral Abstract

7 to 7:15 a.m. | Convention Center: 313 B

Neonatal Hematology & Bilirubin Metabolism

Presentation: **Temporal Trends in Red Blood Cell and Platelet Transfusion Thresholds for Extremely Low Birth Weight Infants**

Presenting Author: Ravi Patel, MD, MSc

Workshop

7 to 8:30 a.m. | Convention Center 305

Kickstart Your Scholarly Work with AI by Your Side: From Hypothesis to Publication

Co-Leaders: Madhuri Prasad, MD, Fellow; Bayley Bennett, MD, Fellow

Panel Discussion

7:25 to 7:50 a.m. | Convention Center 327

To Sedate or Not Sedate, Are We Doing Enough to Treat Pain and Anxiety During Medical Procedures?

Presentation: **When Drugs Are Necessary: What Is the Best Pharmacologic Approach for Treating Pain and Anxiety During Procedures?**

Speaker: Rebecca Burger, MD

APA SIG

10:45 a.m. to 12:15 p.m. | Convention Center: 322

APA SIG: Health Informatics

10:45 to 11:30 a.m. Presentation: **Review of Predictive Models: Strategic Evaluation, Implementations, and Institutional Governance**

SIG Chair and Speaker: Mark Mai, MD, MHS

Workshop

10:45 a.m. to 12:15 p.m. | Convention Center 308

Firearm Safety: A Clinical Skills Workshop

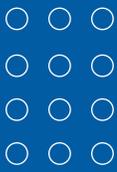
Co-Leader: Sofia Chaudhary, MD

Hot Topic Symposia

10:45 a.m. to 12:15 p.m. | Convention Center: Kalākaua Ballroom A (Level 4)

Neonatal Hypertension: It's Not a Little Problem

Chair: Sandeep Riar, MD



PAS 2025 | Sunday, April 27

Plenary

2 to 3:30 p.m. | Convention Center 310

SPR Presidential Plenary: Best of SPR Featured Science

Chair and Speaker: Brenda Poindexter, MD, MS

Workshop

2 to 3:30 p.m. | Convention Center: 325

Checking your VITALS - Tools and Strategies to Combat Microaggressions in Pediatric Training

Co-Leaders: Madhuri Prasad, MD, Fellow; Brianna Glover, MD; Rekha Gupta, Fellow

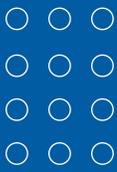
Panel Discussion

2 to 3:30 p.m. | Convention Center: 311

Together we stand, divided we fall - the impact of prematurity on cardiovascular and pulmonary health

2:31 to 2:44 p.m. *Presentation:* **Tools to Assess Cardiopulmonary Interactions in Preterm Infants**

Chair and Speaker: Shazia Bhombal, MD



POSTER SESSION III | 8:30 TO 10:45 A.M. | Convention Center: Kamahameha Exhibit Hall

Infectious and Non-infectious Etiologies of Acute Encephalitis in Children in Atlanta, Georgia, 2018-2024

Presenting author: Amy Bohling, Medical Student

Neonatal Meningitis Rates Associated with Timing and Placement of Ventriculoperitoneal Shunt in Infants with Hydrocephalus

Presenting author: Makeeva Walker, MD, Pediatric Resident (PGY-3)

Shifting Epidemiology of Mycoplasma Pneumoniae and Relative Burden of Community Acquired Pneumonia (CAP) ED Visits. Metropolitan Atlanta, GA. 1/4/2016-10/27/2024.

Presenting author: Sujit Sharma, MD

Nebulized Racemic Epinephrine: Dosing Efficacy of 0.5 mL vs 1.0 mL in Croup

Presenting author: Thuy Bui, MD

Do Schools Teach the Top Killer(s)

Presenting author: Olivia Gorbatkin, MD, Fellow

Awareness of Updated National Asthma Guidelines and Controller Medication Prescription Habits Among Pediatric Emergency Department Physicians

Presenting author: Andrew Fowler, MD, Fellow

Hyperkalemia in Pediatric Nephrectomy—A Common Complication

Presenting author: Abigail Schnaith, MD, Fellow

Impact of Social Determinants of Health on the Health Outcomes of Children With Chronic Kidney Disease (CKD)

Presenting author: Christel Wekon-Kemeni, MD, Fellow

Systematic Review of Risk Assessment Tools for Post-Discharge Mortality Among Children in Sub-Saharan Africa

Presenting author: Chris Rees, MD, MPH

Improving Hemoglobin Monitoring in Hospitalized Infants Undergoing Phototherapy for Indirect Hyperbilirubinemia: A Quality Improvement Initiative

Presenting author: Madhuri Prasad, MD, Fellow

Make Haste to not Waste: Intentional IV Antibiotic Prescribing on the PHM Service

Presenting author: Taylor Ford, MD, Fellow

Standardizing Simulation Curriculum in Pediatric Hospital Medicine Fellowships: A National Needs Assessment

Presenting author: Madhuri Prasad, MD, Fellow



PRESENTATIONS

Plenary

9:15 to 10:45 a.m. | Convention Center 310

SPR Presidential Plenary: The Vision of SPR Promoting Child Health Through a Flourishing Community of Diverse Researchers at the Forefront of Scientific Discovery

Chair: Brenda Poindexter, MD, MS

Workshop

9:15 to 10:45 a.m. | Convention Center: Kalākaua Ballroom B (Level 4)

Hands-On Training to Assess Hemodynamically Significant Patent Ductus Arteriosus Using Neonatal Echocardiography Simulator

Co-Leader: Shazia Bhombal, MD

Workshop

9:15 to 10:45 a.m. | Convention Center: 321

Statistical Process Control for Quality Improvement: Making and Using Control Charts

Co-Leader: Michelle-Marie Peña, MD

Oral Abstract

10 to 10:15 a.m. | Convention Center: 319

Developmental and Behavioral Pediatrics 4: DBP Potpourri

Presentation: **Use of hyperscanning to explore dyadic synchrony in full-term infants at 3-months and hospitalized preterm infants at 34-36 weeks**

Presenting Author: Mary Lauren Neel, MD, MSCI

Workshop

11 a.m. to 12:30 p.m. | Convention Center: 325

How to Design an Anti-Racist Study to Mitigate Scientific Racism

Co-Leader: Salathiel Kendrick-Allwood, MD

Oral Abstract

11:30 to 11:45 a.m. | Convention Center: 317

Global Neonatal & Children's Health 2

Presentation: **Gaps in Clinical Care for Neonatal Asphyxia or Sepsis in Seven Low- and Middle-income Countries**

Presenting Author: Chris Rees, MD, MPH

Trainee Zone

1:15 to 1:30 p.m. | Convention Center Trainee Zone (Level 3)

Resilience

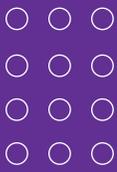
Speaker: Shari Barkin, MD, MSHS

Workshop

2 to 3:30 p.m. | Convention Center 302

The Research Support Network: Developing and Maintaining a Peer Mentorship Group for Early-Stage Pediatric Researchers

Co-Leader: Sofia Chaudhary, MD



PAS 2025 | Monday, April 28

Workshop

2 to 3:30 p.m. | Convention Center: 304

NICUs & Nemeses: A Dungeons & Dragons-Inspired Quest for Mother's Own Milk

Co-Leader: Michelle-Marie Peña, MD

Panel Discussion

2 to 3:30 p.m. | Convention Center: 315

Today's Adolescent STI Explosion. Is Sexual Health Education a Right or a "Divisive Concept"?

2:25 to 2:40 p.m. Presentation: **How to Address Age-Appropriate Sexual Health in General Pediatric Practice & Legal Concerns With Family Planning Services**

Speaker: Samantha Hill, MD, MPH

2:55 to 3:10 p.m. Presentation: **Standardizing Sexual Health and HIV Screening in Non-outpatient Settings**

Speaker: Lauren Middlebrooks, MD

APA SIG: Mid-Career Faculty

2:10 to 2:50 p.m. | Convention Center 307

How to Navigate Mid-Career Professional Restlessness

SIG Speaker: Shari Barkin, MD, MSHS

Oral Abstract

2:15 to 2:30 p.m. | Convention Center 327

Evaluating Secretary Phospholipase A2 (sPLA2) During Vaso-occlusive Pain Episodes (VOE) in Hospitalized Patients With Sickle Cell Disease (SCD)

Presenting Author: Rawan Korman, MD, Research Fellow



POSTER SESSION IV | 7 TO 9:15 A.M. | Convention Center: Kamahameha Exhibit Hall

Variations in Pediatric Sickle Cell Disease (SCD) Clinical Trial Outcomes for Acute Vaso-Occlusive Pain Episodes (VOE): Lessons Learned From the PECARN STArT Trial

Presenting author: Claudia Morris, MD

Risk of Probiotic-Associated Invasive Infection in a Large Cohort of Very Preterm Infants in the United States

Presenting author: Ravi Patel, MD, MSc

Missed Opportunities in Pediatric Emergency Departments to Identify Adolescents Living With HIV in Metro Atlanta

Presenting author: Mark Griffiths, MD

Antenatal Butyrate Supplementation Improves Intestinal Barrier in Neonatal Murine Offspring

Presenting author: Andrea Colarelli, MD, Pediatrics Resident