



**Society for Pediatric and Perinatal Epidemiologic Research**

37<sup>th</sup> Annual Meeting, Austin, TX

June 17-18, 2024

**MONDAY, JUNE 17**

- 12:00 – 2:30 pm      ***Advanced Methods Workshop (Location provided at registration outside Waterloo Ballroom on Level 5)***
- Session 1: Introduction to target trial emulation to improve causal inference in pediatric and perinatal epidemiology*  
Angela Bengtson & \*Susan Hoffman, Emory University
- Session 2: Conceptualizing, measuring, and estimating the relationship between socio-environmental stressors and perinatal and pediatric health*  
Chantel Martin & \*Sarah Haight, University of North Carolina
- 2:30 – 6:00 pm      Registration (**Outside Waller Ballroom on Level 3**)  
3:00 – 4:30 pm      ***Welcome & Opening Day Panel Discussion (Waterloo 3)***
- Welcome*  
Penelope Howards, Emory University
- Disparities in pregnancy-related morbidity and mortality: Where do we go from here?*  
Moderator: Theresa Chapple-McGruder, Oak Park
- Panelists:  
Ugochinyere Vivian Ukah, McGill University  
Jessica Gleason, NICHD  
Katherine Ahrens, University of Southern Maine
- 4:30 – 4:45 pm      Break
- 4:45 – 5:45 pm      ***Concurrent Contributed Sessions (CCS) 1-3***
- CCS 1: Environment, climate, and perinatal outcomes (Waterloo 3)***  
Moderators: Stefania Papatheodorou, Rutgers School of Public Health & \*Naria Sealy, University of Pennsylvania
- Impact of ambient temperature on preterm birth: A multi-city analysis in Japan*  
\*Shuheii Tereda, Tokyo Medical and Dental University, Japan
- Prenatal Ambient Air Pollutants and Climatic Factors Mixture Exposure and fetal growth*  
Stefania Papatheodorou, Rutgers School of Public Health
- Neighborhood Socioeconomic Conditions and Disparities in Birth Weight: Investigating Mediation by Prenatal Exposure to Multiple Air Pollutants*

\*Nan Ji, Johns Hopkins University

*Air pollutants and plasma total folate among pregnant women in Canada, 2008-2011*

\*Tyler Smith, Icahn School of Medicine at Mount Sinai

***CCS 2: Menstrual characteristics and benign gynecologic conditions (Waterloo 2)***

Moderators: Linda Kahn, New York University & Anissa Vines, University of North Carolina

*Oral contraceptives and uterine fibroid development in a prospective ultrasound study of Black and African American women*

\*Christine Langton, NIEHS

*Subjective sleep health and menstrual cycle characteristics in a North American prospective cohort study*

\*Chad Coleman, Boston University

*Associations between early-life menstrual characteristics and gestational diabetes in a large US cohort*

\*Zifan Wang, Harvard T.H. Chan School of Public Health

*Endometriosis and hypertriglyceridemia, why we care about severity and typology*

Karen Schliep, University of Utah Health

*Long-term cardiometabolic trajectories of women with diagnosed and probable PCOS in a diverse cohort of parous women*

Wei Perng, Colorado School of Public Health

***CCS 3: Child Health: Diversifying the concept of environmental exposures (Waterloo 1)***

Moderators: Izzuddin Aris, Harvard Medical School and Harvard Pilgrim Health Care Institute & Nicole Talge, Michigan State University

*Maternal prenatal cannabis use disorder and risk of autism spectrum disorder in offspring: A data linkage cohort study*

\*Abay Tadesse, Curtin University, Australia

*Adverse Childhood Experiences and Utilization of Preventive Healthcare among Children in Rural Communities in the United States (NHIS 2022)*

\*Mary Labuhn, University of North Dakota School of Medicine and Health Science

*Food Insecurity in Early Life and Obesity Risk Across Childhood and Adolescence in the Environmental influences on Child Health Outcomes (ECHO) Program*

Izzuddin Aris, Harvard Medical School and Harvard Pilgrim Health Care Institute

*Associations between Exposure to Extreme Ambient Heat and Neural Tube Defects in Georgia*

\*Sarah LaPointe, Emory University

5:45 – 6:45 pm

***Reception and Poster Session A (Moonstone Hall)***

## TUESDAY, JUNE 18

7:00 – 10:00 am Registration ((**Outside Waller Ballroom on Level 3**))

7:00 – 8:00 am Breakfast (**Moonstone Hall**)

8:00 – 9:15 am **Keynote Address: Latino Health: Assumptions and Surprises (Waterloo 3)**  
Speaker: Elena Fuentes-Afflick, University of California San Francisco

9:15 – 9:30 am **Heinz Berendes Award Presentation & Talk: Extreme Heat Stress, Emergency Department Visits and Unplanned Hospital Admissions in Children and Adolescents (Waterloo 3)**  
\*Wen-Qiang He, University of Sydney, Australia

9:30 – 10:30 am **Poster Session B (Moonstone Hall)**

10:30 am – 12:00 pm **Symposia**

### **Symposium 1: Fathers Matter: Black Fathers' Involvement in Pregnancy and Beyond (Waterloo 3)**

Co-chairs: \*Rosemary Adaji, Michigan State University & \*Florence Kizza, Michigan State University

*Context of Black Fatherhood – Stereotypes, and the myth of the uninvolved Black Father*

\*Rosemary Adaji, Michigan State University

*Transitioning to Fatherhood: An equity-focused examination of Black men's experiences and health outcomes*

Adaobi Anakwe, Drexel University

*Paternal Factors and Influences on Pregnancy Outcomes Among Black Pregnant Women*

Ashley Hill, University of Pittsburgh

*Dyadic assessment of mother-father of the baby relationship quality in Black Families*

Sarah Vaughan, Michigan State University

*Mother-father relationship during pregnancy and its influence on paternal lifestyle behavior*

\*Florence Kizza, Michigan State University

### **Symposium 2: Promises and Pitfalls of Sibling Designs in Pediatric and Perinatal Epidemiology (Waterloo 2)**

Chair: Zeyan Liew, Yale School of Public Health

*Biases and causal inference using the sibling comparison design*

Thomas Frisell, Karolinska Institute, Sweden

*How sibling studies have been utilized to advance autism and neurodevelopmental research*

Diana Schendel, Drexel University

*Utilizing a sibling-controlled design to re-evaluate the major and suspected*

*perinatal risk factors for Cerebral Palsy*

\*Haoran Zhou, Yale University

*Maternal Residential Mobility Between Pregnancies: A California Statewide Sibling Study*

Zeyan Liew, Yale University

***Symposium 3: Severe Maternal Morbidity (Waterloo 1)***

Co-chairs: Israel Yoles, Clalit Health Services, Israel & KS Joseph, University of British Columbia, Canada

*Introduction*

Israel Yoles, Clalit Health Services, Israel

*Severe Maternal Morbidity in Israel: Risk factors and long-term outcomes*

Tamar Wainstock, Ben Gurion University of the Negev, Israel

*Severe Maternal Morbidity in the USA*

Jonathan Snowden, Oregon Health & Science University-Portland State University, Oregon

*Severe Maternal Morbidity in Canada*

Sarka Lisonkova, University of British Columbia, Canada

*Severe maternal morbidity surveillance: temporal trends and regional variations in Sweden, 1999-2019*

Giulia Muraca, McMaster University, Canada & Karolinska Institute, Sweden

*Measurement of Severe Maternal Morbidity using Routine Data in England*

\*Ian Henderson, Oxford University, England

*Summation*

KS Joseph, University of British Columbia, Canada

12:00 – 1:30 pm

Lunch on your own

12:30 – 1:15 pm

***Professional Development Panels***

***Panel 1: Non-Academic Career Paths, Industry (Waterloo 2)***

Moderator: \*Maria Cinzori, Michigan State University

Panelists:

Ugochinyere Vivian Ukah, McGill University

Rana Chehab, Kaiser Permanente

Sarah Keim, Nationwide Children's Hospital

***Panel 2: Non-Academic Career Paths, Government/Non-Profit (Waterloo 1)***

Moderator: \*Alexandra Jean-Louis, NICHD

Panelists:

Suzanne Gilboa, CDC

Kristen Rappazzo, EPA

Edwina Yeung, NICHD

1:30 – 2:30 pm

***Concurrent Contributed Sessions (CCS) 4-6***

**CCS 4: Individual and Social Contextual Factors on Reproductive Outcomes  
(Waterloo 3)**

Moderators: Yeyi Zhu, Kaiser Permanente & Mahasin Mujahid, University of California, Berkeley

*Exposure to racial discrimination is associated with a 'dose-dependent' increased risk of placentally mediated adverse pregnancy outcomes*

Sarah Heerboth, University of North Carolina

*Association between density of food retailers and fitness centers and gestational diabetes mellitus in Eastern Massachusetts*

Matt Shupler, Harvard T.H. Chan School of Public Health

*Health system barriers and facilitators to accessing non-barrier contraceptives among women sex workers in Vancouver, Canada: Findings from a longitudinal cohort study (2014-2022)*

\*Emma Stirling-Cameron, University of British Columbia, Canada

*Associations of Neighborhood Vulnerability with Menopause Symptoms and Timing of Onset at Midlife in Project Viva*

Izzuddin Aris, Harvard Medical School and Harvard Pilgrim Health Care Institute

*Measuring county-level structural racism and its association with racial-ethnic disparities in pregnancy-related mortality ratios*

\*Chloe Barrera, Emory University

**CCS 5: Methodological Innovations in Perinatal Epidemiology: Biases, Biomarkers, and New Methodologies (Waterloo 2)**

Moderators: Kari Weber, University of Arkansas for Medical Sciences &

\*Colleen Reynolds, Harvard T.H. Chan School of Public Health

*Considering pregnancies as repeated versus isolated events: An empirical comparison of common approaches across selected perinatal outcomes*

\*Shalmali Bane, Stanford University School of Medicine

*Assessment of DistillerSR's Machine Learning Capabilities for Maternal Risk Outcome Research*

Maxwell Dodge, University of Washington

*Understanding the impact of selection biases inherent in pregnancy research across different causal inference approaches: a simulation study*

\*Basma Dib, University of Pittsburgh

*Pre-Pregnancy and First-Trimester Hair Cortisol Predicts Preterm Birth in Pregnant Women in Perú: A Causal Inference Model*

\*Richard G. Künzel, Harvard T.H. Chan School of Public Health

**CCS 6: Maternal hypertension: causes and consequences across life stages  
(Waterloo 1)**

Moderators: Elizabeth Suarez, Rutgers University & Kaitlyn Stanhope, Emory University

*Trends and racial/ethnic inequities in Maternal Cardiovascular Health in California*

\*Elleni Hailu, University of California, Berkeley School of Public Health

*A series of emulated target trials to estimate the safety of antihypertensives for the management of non-severe gestational hypertension among pregnant individuals in Botswana*

\*Julia DiTosto, University of Pennsylvania

*Low-dose aspirin prophylaxis for preeclampsia and the risk of postpartum cardiovascular outcomes: a propensity score analysis*

\*Ema Mujic, Boston University

*Racial/Ethnic Differences in the Risk of Preeclampsia/Eclampsia across Body Mass Index Categories*

Rana Chehab, Kaiser Permanente Northern California

2:30 – 2:45 pm

Afternoon break

2:45 – 3:45 pm

***Concurrent Contributed Sessions (CCS) 7-9***

***CCS 7: Innovative approaches to studying structural racism and perinatal outcomes (Waterloo 3)***

Moderators: Kimberly McKee, University of Michigan &

\*Safyer McKenzie-Sampson, Stanford University

*Tracking the Anatomy of a Disparity: Four Unique Typologies of Changing NHB-NHW Disparities in Preterm Birth Rates Across U.S. Counties*

\*Allison Stolte, University of California, Irvine

*Prenatal exposure to race-based stressors and cardiovascular health: The Bogalusa Heart Study*

\*Maria Santos, Tulane University

*Using spatial Bayesian models to estimate associations between structural racism and severe maternal morbidity disparities in Georgia*

\*Jasmin Eatman, Emory University

*Neighborhood Deprivation and Severe Maternal Morbidity: An Analysis Across Multiple Geographic Levels in California*

\*Sai Ramya Maddali, University of California, Berkeley

***CCS 8: Methods for Assessing Risks and Outcomes in Pediatric Epidemiology (Waterloo 2)***

Moderators: Carrie Shapiro-Mendoza, CDC & \*Sara Stephens, Baylor College of Medicine

*COVID-19 hospitalizations and hospitalization outcomes among children with immunocompromising conditions, MarketScan Commercial Database, 2020-2022*

Regina Simeone, CDC

*Importance of infant follow-up data for the surveillance of possible birth defects*  
Samantha Distler, CDC

*Unintentional Drowning Incidents Involving Children with Autism Spectrum*

*Disorder Treated in US Emergency Departments, 2016-2019*  
\*Kristal Xie, Columbia University

***CCS 9: Cross-cutting Issues in Reproductive Health: Unique Exposures, the Environment, and Methods (Waterloo 1)***

Moderators: Alison Krajewski, EPA & \*Brad Ryva, Michigan State University

*Heat Exposure During Susceptible Windows of Spermatogenesis and Sperm Epigenetic Age*

Carrie Nobles, University of Massachusetts Amherst

*Metabolic mechanisms underlying the association between the profertility diet and in vitro fertilization outcomes*

\*Robert Hood, Emory University

*Exposure to air pollution during pregnancy and gestational weight gain*

\*Meghan Angley, Columbia University Irving Medical Center

*Who are we learning about when we use app data to study reproductive health?*

\*Hailey Ballard, University of Wisconsin-Madison

3:45 – 4:00 pm

Afternoon break

4:00 – 4:15 pm

***Recognition of 2024 SPER Award Winners (Waterloo 3)***

Moderator: Edwina Yeung

*SPER Mentoring Award:* Russell Kirby, University of South Florida

*SPER Rising Star Award:* Sonia Grandi, SickKids, Canada

*SPER Travel Award to Promote Equity, Diversity, and Inclusion:* \*Natalie Guerrero, Indiana University

*Student Prize Paper Award:* \*Shalmali Bane, Stanford University

4:15 – 4:30 pm

***Student Prize Paper Award Talk: A Counterfactual Analysis of Impact of Cesarean Birth in a First Birth on Severe Maternal Morbidity in the Subsequent Birth (Waterloo 3)***

\*Shalmali Bane, Stanford University

4:30 – 5:30 pm

***Speed Talks (Waterloo 3)***

Moderators: Sonia Grandi, SickKids, Canada & \*Maria Cinzori, Michigan State University

*Tampon use as a source of endocrine disrupting chemical exposure: Results from NHANES 2001-2004*

Kristen Upton, Michigan State University

*Post Dobbs: Distance to abortion facilities and depressive symptoms among racially/ethnically minoritized women of reproductive age*

Abhery Das, University of Illinois Chicago

*Prenatal antiretroviral therapy initiation and early learning and development outcomes among HIV-exposed, uninfected children 4-6 years of age in Tanzania*

Nandita Perumal, University of South Carolina

*Vanishing twins likely contribute to the disparity in birthweight between Non-Hispanic Black and Non-Hispanic White periviable infants*  
Tim Bruckner, University of California, Irvine

*Association of Women with PCOS to a higher prevalence of having biological children with ASD-ADHD*  
Chinthana Thangavel, Texas Tech University Health Sciences Center

*Social Determinants of Health Mediate Racial and Ethnicity Disparities in Preeclampsia: Insights from the All of Us Program*  
\*Olivia Kapera, University of Texas Health Science Center

*Maternal psychosocial stress in pregnancy and children's blood pressure trajectories from infancy to adolescence: Findings from Project Viva*  
\*Kelsey Williams, Johns Hopkins

5:30 – 6:30 pm      **Business Meeting (Waterloo 3)** – everyone is welcome!

8:30 pm –            **Unofficial Trainee Social Gathering (Location posted at the registration desk)**

*\*Denotes a trainee*

### QR codes to submit questions:

**Waterloo 1**



**Waterloo 2**



**Waterloo 3**



### QR code for Meeting Conduct Policy:



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