

**SOCIETY FOR PEDIATRIC AND PERINATAL  
EPIDEMIOLOGIC RESEARCH**

CHICAGO, IL, JUNE 13-14, 2022

**Program**

**MONDAY, JUNE 13**

12:00 – 3:00 pm

*Advanced Methods Workshop*  
*Chicago 10*

**Time-Dependent Exposures and Selective Testing in Pregnancy: SARS-CoV-2, COVID-19, and Pre-Eclampsia**

Selection bias due to selective testing for exposures in pregnancy: An example from SARS-CoV-2 and preeclampsia

**Chelsea Messinger**

Study design and analysis for time-dependent exposures during pregnancy, with application to SARS-CoV-2 infection and COVID-19 vaccination

**Louisa Smith**

3:00 – 7:00 pm

Registration  
Proof of Covid vaccination and negative test required; Covid tests provided for Tuesday  
*Chicago Promenade East*

4:00 – 5:30 pm

**Symposium 1** Getting the whole picture: Holistic consideration of environmental, clinical, and social contributions to preterm birth  
*Chicago 8*

Moderators: **Brandie DePaoli Taylor and Sandie Ha**

Integrating social frameworks to promote equity in preterm birth research  
**Ashley V. Hill**

The residential environment and risk of preterm delivery: social and economic factors

**Collette N. Ncube**

Integrating exposomic and endogenous biomarkers to characterize potential mechanisms of preterm birth

**Max Aung**

Novel statistical approaches for assessing complex pathways to health outcomes

**Carmen D. Tekwe**

**Symposium 2** The Role of the epigenome in child health: Perspectives from the ECHO (Environmental influences on Child Health Outcomes) consortium

*Chicago 9*

Moderator: **Carrie Breton**

Epigenetic aging associations with child emotional and behavioral development

**Ashley Song**

Pregnancy complications and epigenetic age

**Zhongzheng (Jason) Niu**

Cross Tissue Epigenetic Patterns in Response Air Pollution Exposure in Early Life

**Carole Ober**

A methodological pipeline to generate an epigenetic marker of prenatal exposure to air pollution indicators

**Ya Wang**

Development and validation of a novel placental DNA methylation biomarker of maternal smoking during pregnancy

**Lyndsey Shorey**

Discussant: **Carrie Breton**

5:30 – 6:45 pm

**Welcome Reception and Poster Session A**

*Riverwalk B*

## **TUESDAY, JUNE 14**

7:00 – 10:00 am

Registration

Proof of Covid vaccination and negative test required

*Chicago Promenade East*

7:00 – 9:00 am

Breakfast

*Chicago Promenade East*

8:00 – 8:10 am

**Welcome:** Lisa Bodnar

*Chicago 8*

8:10 – 9:15 am

**Keynote Address:** Rachel Hardeman, PhD

*Chicago 8*

## **“Momma!” An exploration of the intersections of reproductive justice and police violence**

“Momma!” George Floyd called out, face pressed against the pavement with the knee of a Minneapolis police officer in his neck. “Momma...I’m through!” Mr. Floyd yelled. George Floyd’s cry for his “Momma” resonates deeply with all of us—we all know what it feels like to need our mom in times of fear and distress. Yet, there is something else haunting and painful in Mr. Floyd’s words—a cry for help so profound it summoned all Black mothers in America, shaking us to our core, evoking images of our beloved Black sons and Black daughters stolen from us too soon. We are in an unprecedented moment and we each have a role to play in transforming this moment into a movement that shows that Black Lives Matter in reproductive health.

9:15 – 9:30 am

Morning Break  
*Location TBD*

9:30 – 11:00 am

**Symposium 3:** But is it safe? Applying epidemiology to evaluate COVID-19 vaccine safety during pregnancy  
*Chicago 8*

Moderators: **Ousseny Zerbo and Annette Regan**

Methodological challenges for conducting observational studies of COVID-19 vaccine safety during pregnancy

**Deshayne Fell**

Periconceptional exposure to COVID-19 vaccines: the value of preconception cohorts

**Lauren Wise**

COVID-19 vaccine surveillance safety in early pregnancy: design factors affecting association between vaccine and spontaneous abortion

**Gabriela Vazquez Benitez**

Registry-based approaches to evaluating COVID-19 vaccine safety during pregnancy

**Siri Håberg**

Cohort event monitoring: monitoring vaccine safety in low and middle-income countries

**Robert Chen**

Discussants: **Ousseny Zerbo and Annette Regan**

**Symposium 4:** Double trouble: Considerations for twins in perinatal epidemiologic studies  
*Chicago 9*

Moderators: **Julie Petersen and Samantha Parker**

Fertility treatments and multiple births in the United States

**Elnur Babayev**

One baby at a time: How public health initiatives have shaped modern fertility care

**David Austin Schirmer III**

Health disparities and twin gestations: Epidemiology and clinical challenges

**Lynn Yee**

Multifetal gestations mediate the effect of in vitro fertilization (IVF) on ischemic placental disease in autologous oocyte IVF more than donor oocyte IVF

**Anna Modest**

Fetal growth and identification of small-for-gestational-age (SGA) in twins

**Katherine Grantz**

Discussant: **Jennifer Hutcheon**

11:00 – 11:15 am

Break

11:15 – 12:15 pm

**Concurrent Contributed Session 1:** Pediatric health and well-being  
*Chicago 8*

Moderator: **Ruby Nguyen and Mrudula Naidu**

Adverse childhood experiences, social support, and fecundability in an internet-based prospective cohort study

**Sharonda Lovett**

Endotoxin biomarkers are associated with indicators of adiposity and cardiometabolic risk across six years of follow-up in general-risk youth: A prospective study in the EPOCH cohort

**Wei Perng**

*CFTR* gene variants, air pollution, and childhood asthma in a California Medicaid population

**Ruwan Thilakaratne**

Maternal low dose aspirin and self-reported wheezing and asthma in children: Findings from the Effects of Aspirin in Gestation and Reproduction (EAGeR) trial

**Joseph Stanford**

Motor disorders and health-related quality of life at age five in a European multi-country cohort of children born extremely preterm

**Adrien Aubert**

*Concurrent Contributed Session 2: Environmental and social exposures and reproductive health*

*Chicago 9*

Moderator: **Kristen Rapazzo and Qiping Fan**

Heat, season, and reproductive success

**Anne Marie Jukic**

Acute tear gas exposure symptoms and adverse male reproductive outcomes

**Damilola Owoade**

Traffic-related air pollution and pregnancy loss in Eastern Massachusetts, USA

**Michael Leung**

The ABC of fertility intentions: a mixed-methods study exploring the spectrum of attitudes towards family building

**Bola Grace**

Urinary cadmium and endometriosis risk among U.S. women: results from NHANES 1999-2006

**Mandy S. Hall**

*Concurrent Contributed Session 3: Methodological and study design considerations in reproductive and perinatal epidemiology*

*Chicago 10*

Moderator: **Wendy Nembhard and Yasamean Zamani-Hank**

Utility of sibling designs for confounding control when exposure affects fertility

**Mollie Wood**

Emulating a sequence of target trials to avoid immortal time bias in pregnancy studies – an application to antibiotic initiation and preterm delivery

**Ellen Caniglia**

International versus national growth charts for identifying small and large-for-gestational age newborns: a population-based study in 15 European countries

**Alice Hocquette**

The public health exposome and pregnancy-related mortality in the United States: a high-dimensional computational analysis  
**Emily Harville**

12:15 – 1:15 pm Lunch on your own

1:15 – 2:15 pm **Poster session B**  
*Riverwalk B*

2:15 – 3:15 pm ***Concurrent Contributed Session 4:*** Inequities in perinatal and postnatal health  
*Chicago 8*

Moderator: **Jihong Liu and Ukah Ugochinyere**

Risk of small for gestational age deliveries among African-born Black women residing in California, 2011-2017.

**Safyer McKenzie-Sampson**

Residential mobility and preterm birth among non-Hispanic Black birthing persons.

**Tim Bruckner**

Racial Discrimination, Neighborhood Segregation, and Maternal Hypertension among Black Women

**Brittney Butler**

Postpartum Hospital Re-admissions among Massachusetts Women Who Are Deaf or Hard of Hearing: A Retrospective Cohort Study

**Kim McKee**

***Concurrent Contributed Session 5:*** Reproductive history and long-term health outcomes  
*Chicago 9*

Moderator: **Helen Chin and Diana Soria**

Risk of cardiovascular disease in women and men with subfertility: the Trøndelag Health Study

**Karoline Skåra**

Pregnancy complications in last pregnancy and mothers' long-term mortality risk: do relations differ from that of first pregnancy? A population-based study

**Abdu Seid**

Anti-Mullerian Hormone and long-term body composition among women in Project Viva

**Ellen Francis**

History of pregnancy loss and risk of incident cardiovascular disease within 5 years: Findings from the Women's Health Initiative

**Catherine Wright**

***Concurrent Contributed Session 6: Child development***

*Chicago 10*

Moderator: **Christina Codero and Samrawit Yisahak**

Pre-pregnancy maternal cardiovascular diseases and risk of offspring's neurodevelopmental disorders: a population-based cohort study

**M Zakir Hossin**

Associations of toddler mechanical and mealtime distress feeding problems with psychopathology symptoms five years later

**Diane Putnick**

Chorioamnionitis and risk of long-term neurodevelopmental disorders in offspring; a population-based cohort study in Sweden.

**Eleni Tsamantioti**

Early-life temperament and childhood mental health during COVID-19: Findings from a longitudinal birth cohort in Mexico City

**Laura McGuinn**

3:15 – 3:30 pm

Afternoon snack break

*Location TBD*

3:30 – 5:00 pm

***Plenary: Let's End with a Bang!***

*Chicago 8*

***Recognition of 2022 SPER Award Winners***

**Jaime Slaughter-Acey**

*SPER Mentoring Award: Shawnita Sealy-Jefferson*

*SPER Rising Start Award: Izzuddin Aris*

*Student Prize Paper Award:*

Causal effects of maternal coffee consumption on perinatal health: a systematic Mendelian randomization study based on four European cohorts

**Peiyuan Huang**

*Heinz Berendes Award:*

Risk of severe postpartum hemorrhage according to the sum of birthweights in twin pregnancies

**Lola Loussert**

*Plenary scientific presentations*

Moderator: **Sonia Grandi and Luther-King Fasehun**

Patterned outcomes, unpatterned counterfactuals, and spurious results: perinatal health outcomes following COVID-19

**Alison Gemmill**

Racial/Ethnic Disparities in Severe Maternal Morbidity: An Intersectional Life-course Approach

**Mahasin Mujahid**

Reported Periconceptional Use of Analgesics and Limb Deficiencies in Offspring: Addressing Potential Recall Bias

**Nedghie Adrien**

5:00 – 6:00 pm

***Business Meeting*** – all are encouraged to attend!

*Chicago 8*