## Tuesday, June 19, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00am - 1:30pm</td>
<td>Workshop Registration</td>
<td>Constellation Foyer</td>
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<tr>
<td>8:30am - 12:30pm</td>
<td><strong>MORNING WORKSHOPS</strong> (Registration Required)</td>
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<td></td>
<td>Confounding control for estimating causal effects: Looking under the hood</td>
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<td></td>
<td>Nicolle Gatto &amp; Ulka Campbell</td>
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<td></td>
<td>Critical review and preparation of manuscripts reporting epidemiologic findings</td>
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<td><em>(Sponsored by AJE)</em></td>
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<td></td>
<td><strong>Moyses Szklo</strong></td>
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<tr>
<td></td>
<td>An Introduction to R for Epidemiologists</td>
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<td></td>
<td><strong>Stephen Mooney</strong></td>
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<td></td>
<td>An introduction to directed acyclic graphs: What you never wanted but needed to know about</td>
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<td></td>
<td>bias and didn’t even know to ask</td>
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<td><strong>Ian Shrier</strong></td>
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<td>Implementing G Methods in Complex Longitudinal Data</td>
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<td><strong>Ashley Naimi</strong></td>
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<td>Should I attend this workshop? An introduction to (counterfactual) decision theory</td>
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<td><strong>Stephen Cole</strong></td>
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<td>1:00pm - 5:00pm</td>
<td><strong>AFTERNOON WORKSHOPS</strong> (Registration Required)</td>
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<td>Estimation and interpretation: introduction to parametric and semi-parametric estimators for</td>
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<td>causal inference</td>
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<td></td>
<td><strong>Jennifer Ahern, Laura Balzer</strong></td>
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<td>Using Monte Carlo Simulations for Quantitative Bias Analysis</td>
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<td><strong>Hailey Banack, Elizabeth Rose Mayeda</strong></td>
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<td>Introduction to Implementation Science</td>
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<td><strong>Gila Neta</strong></td>
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<td>Bias analysis for unmeasured confounding and measurement error</td>
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<td><strong>Tyler VanderWeele</strong></td>
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<tr>
<td>3:00pm - 8:30pm</td>
<td><strong>SER Meeting Registration</strong></td>
<td>Constellation Foyer</td>
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<td>5:30pm - 7:30pm</td>
<td><strong>EVENING WORKSHOPS</strong> (Registration Required)</td>
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<td></td>
<td>Regression Models For Selection Bias, Nonrandom Exposure, and Unobserved Confounding</td>
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<td>Using Stata</td>
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<td><strong>Chuck Huber</strong></td>
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<td>Research in collaborative study designs: design and analytic considerations</td>
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<td><strong>Keri Althoff, Bryan Lau</strong></td>
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<td>Tools for transparent epidemiology: Evaluating time-varying covariate balance in longitudinal studies</td>
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<td><strong>John Jackson</strong></td>
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<td>How to make a picture worth 1,000 words: Effectively communicating your research results through statistical graphics</td>
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<td><strong>Mike Jackson</strong></td>
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<tr>
<td>7:00pm - 8:30pm</td>
<td>Poster Session 1 &amp; Reception (cash bar)</td>
<td>Constellation CDEF</td>
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### Wednesday, June 20, 2018

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00am - 7:45am</td>
<td>SPC Speed Networking (ticket required)</td>
<td>Lombard</td>
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<tr>
<td>6:45am - 8:00am</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:30am - 5:15pm</td>
<td>Registration</td>
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<tr>
<td>8:00am - 9:30am</td>
<td><strong>PLENARY SESSION 1</strong></td>
<td>Constellation AB</td>
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<td>SER President Address: Andrew Olshan</td>
<td>Recording</td>
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<td>Keynote Address: Allen Wilcox &quot;The Art of Scientific Investigation&quot;</td>
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<td>Rothman Career Accomplishment Winner: Allen Wilcox</td>
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<tr>
<td>9:30am - 10:00am</td>
<td>Break and Poster Viewing</td>
<td>Constellation CDEF</td>
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<td>10:00am - 11:30am</td>
<td><strong>SYMPOSIA 1</strong></td>
<td>Constellation A</td>
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<td>VIRTUOUS CIRCLES: NEW IDEAS AT THE INTERSECTION OF OBSERVATIONAL AND RANDOMIZED STUDIES</td>
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<td>Chairs: Daniel Westreich and Michael Kosorok</td>
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<td>Generalizability of randomized trials</td>
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<td>Catherine Lesko</td>
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<td>Trial designs for achieving internal and external validity</td>
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<td>Elizabeth Stuart</td>
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<td>Innovative trial design and analysis</td>
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<td>Eric Laber</td>
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<td>Michael Kosorok</td>
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<td>10:00am - 11:30am</td>
<td><strong>MACHINE LEARNING IN EPIDEMIOLOGIC SCIENCE</strong></td>
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<td>Chair: Ashley Naimi</td>
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<td>Machine learning in epidemiology: A magical mystery tour</td>
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<td>Ashley Naimi</td>
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<td>Machine learning in causal inference: Balancing bias and variance</td>
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<td>Edward Kennedy</td>
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<td>Fairness and bias in predictive modelling</td>
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<td>Alexander Chouldechova</td>
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<td>Scalable machine learning for epidemiological studies</td>
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<td>Maria Glymour</td>
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<td>10:00am - 11:30am</td>
<td><strong>CHANGES IN UNITED STATES HEALTH POLICY: IMPLICATIONS FOR SUBSTANCE USE AND INJURY</strong></td>
<td>Baltimore/Annapolis</td>
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<td>Chair: Katherine Keyes</td>
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<td>Modeling the effect of health insurance on substance use: Lessons from the ACA’s dependent care expansion</td>
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<td>Bryce Pardo</td>
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<td>Consequences of medical and recreational cannabis legislation on marijuana and opioid-related harms</td>
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<td>Katherine Keyes</td>
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<td>Prescription opioid and heroin regulations and opioid overdose in the United States: A spatio-temporal approach to policy evaluation</td>
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<td>Magdalena Cerda</td>
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<td>The armed and prohibited persons system in California: A randomized controlled trial evaluation of its impact on firearm violence</td>
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<td>Hannah Laqueur</td>
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<td>Effects of the Mental Health Services Act on suicide in California: A synthetic control approach</td>
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<td>Jennifer Ahern</td>
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10:00am - 11:30am  MISCLASSIFICATION OF UNDERREPRESENTED GROUPS: CARING ABOUT SMALLER CATEGORIES  Chair: Nadia Abuelezam  Assessment, misclassification, and politicization of sexual orientation data  Brittany Charlton  Transgender population health: Methods, measures, and misclassification  Sari Reisner  Categorizing race: Discordance and misclassification challenges  Nadia Abuelezam  

10:00am - 11:30am  SUBOPTIMAL SLEEP AS AN UNDERSTUDIED BUT FUNDAMENTAL CONTRIBUTOR TO POOR HEALTH AND HEALTH DISPARITIES: CHALLENGES AND OPPORTUNITIES FOR ALL EPIDEMIOLOGICAL RESEARCH  Chairs: Chandra L. Jackson and Dayna A. Johnson  Suboptimal sleep as a fundamental contributor to poor health and health disparities  Chandra L. Jackson  Social and environmental determinants of sleep health  Dayna A. Johnson  The measure and mismeasure of sleep  Diane S. Lauderdale  Measuring sleep with consumer wearable devices  Peter James  

10:00am - 11:30am  IS YOUR SOUP TOXIC OR NUTRITIOUS? METHODS FOR ASSESSING EXPOSURE MIXTURES IN ENVIRONMENTAL AND NUTRITIONAL EPIDEMIOLOGY  Chairs: Anna Pollack and Jessie Buckley  Bayesian methods to assess the impact of chemical mixtures on neurodevelopmental trajectories  Shelley Liu  Multidimensionality and dynamism: Extending methods in dietary patterns research  Jill Reedy  Fixing the problem by changing the question: Leveraging correlated exposures to estimate impacts of public health actions  Alexander Keil  Bayesian hierarchical modeling of correlated exposures  Patrick Bradshaw  Using methods for environmental mixtures in nutrition research: Prenatal nutrition and neurodevelopment  Chris Gennings  

11:30am - 1:30pm  Lunch (on your own)
12:00pm - 1:00pm

**EARLY STAGE INVESTIGATORS - THE “DOS AND DON’TS” OF SOCIAL MEDIA: HOW TO DISSEMINATE YOUR RESEARCH EFFECTIVELY (AND NOT GET YOURSELF IN TROUBLE!)**

Chair: Bryan James and Hailey Banack

Nick Moran
Sandro Galea
Whitney Robinson
Matthew Fox
Maria Glymour

**SER GOES INTERNATIONAL-Epidemiology in Germany**

Chair: Andreas Stang

Cancer epidemiology research: activities and opportunities in Germany
Andreas Stang
Cardiovascular epidemiology: research activities and opportunities in Germany
Dhayana Dallmeier
Infectious disease epidemiology: research activities and opportunities in Germany
Osama Hamouda
Cohort studies in Germany and public use opportunities for research
Wolfgang Hoffman

**SER Student & Faculty Recruitment Fair**

**CONCURRENT CONTRIBUTED SESSION 1**

1:30pm - 3:00pm

**ENVIRONMENTAL EXPOSURES AND A SPECTRUM OF REPRODUCTIVE AND DEVELOPMENTAL HEALTH OUTCOMES**

Chair: David Savitz

Effects of fine particular matter and black carbon on markers of ovarian reserve and response among women undergoing in vitro fertilization
Audrey Gaskins
Male cellular telephone use and fecundability in a North American preconception cohort study
Elizabeth Hatch
Maternal concentrations of serum per- and polyfluoroalkylsubstances during pregnancy and birth size in British boys
Anya Cutler
Ambient air pollution and intrauterine growth restriction: physician diagnosis of intrauterine growth restriction versus population-based small-for-gestational age
Carrie Nobles
Neonatal concentrations of endocrine disrupting chemicals and child behavioral difficulties in a longitudinal US cohort
Akhgar Ghassabian

1:30pm - 3:00pm

**BIG DATA IN EPIDEMIOLOGY: CHALLENGES AND OPPORTUNITIES**

Chair: Robert Platt

Screening pregnant women for suicidal behavior in electronic medical records: diagnostic codes vs. clinical notes processed by natural language processing
Qiuyue Zhong
Evaluating predictive model discrimination using multiple sources of electronic health data: How much data do we need?
Craig S. Meyer
Novel use and combinations of population-based big data for the study of rare outcomes and transient ecological exposures
Jennifer Ahern
Quality measures for health system quality measurement: harnessing big data to advance global health
Hannah H. Leslie
Data sharing in big data epidemiology: 2 novel-ish approaches
Stephen J. Mooney
**1:30pm - 3:00pm**

**HOT TOPICS IN SUBSTANCE USE EPIDEMIOLOGY**

Baltimore/Annapolis

Chair: Craig Ross

Cannabis smoking and risk of cancer: A meta-analysis of observational studies

**Sung Hoon Park**

Investigating the relationships between perceived availability of marijuana, perceived risk of marijuana use, and use of marijuana among adolescents in Chile, Argentina, and Uruguay over time

Julia Schleimer

Socio-economic and racial/ethnic differences in e-cigarette uptake among cigarette smokers: Longitudinal analysis of the Population Assessment of Tobacco and Health (PATH) study

**Alyssa F. Harlow**

Neighborhood socioeconomic disadvantage, disorder, and alcohol availability associated with binge drinking from adolescence into early adulthood

**Brian J. Fairman**

Harm reduction practices and other correlates associated with experiencing a fentanyl-related overdose among young adults who use drugs

**Jaqueline Goldman**

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**1:30pm - 3:00pm**

**ELEMENTS OF AGING: BIOLOGY, NEIGHBORHOOD AND METHODS**

Frederick/Columbia

Chair: Mary Haan

Assessing misclassification in records and proxy interviews to categorize dementia in the Cardiovascular Health Study (CHS): a probabilistic bias analysis

**Andreea M. Rawlings**

Sleep duration and disruption as risk factors for mortality: comparison of subjective and objective sleep measures in a national cohort of older adults

**Diane S. Lauderdale**

Long term patterns of neighborhood-level racial segregation and midlife cognitive performance: Coronary artery risk development in young adults (CARDIA) Study

**Michelle R. Caunca**

Can biological age predict mortality and morbidity more accurately than chronological age? Findings from the Rotterdam Study

**Reem Waziry**

Trends in incidence of dementia and Alzheimer's disease

**Lori Chibnik**

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**1:30pm - 3:00pm**

**PATTERNS, PREDICTORS, AND POLICY IN HIV/STI EPIDEMIOLOGY**

Chesapeake A

Chair: Peter Rebeiro

The longitudinal relationship between county social disorganization and chlamydia rates in the United States

**Diana M. Sheehan**

Perceived stress and incident sexually transmitted infections in a prospective cohort study

**Rodman Turpin**

Measurement of current substance use in a cohort of HIV-infected persons in continuity HIV care

**Catherine Lesko**

The relationship between discrimination and missed scheduled HIV care appointments among women living with HIV

**Andrew E. Cressman**

CD4 decline and associated mortality following cancer treatment among people with HIV in the era of antiretroviral therapy

**Keri L. Calkins**
1:30pm - 3:00pm  
CARDIOVASCULAR EPIDEMIOLOGY THROUGH THE LIFE SPAN  
TO INFORM PREVENTION  
Chair: Alvaro Alonso  
Neighborhood green space access at birth, childhood and adulthood associated with blood pressure trajectories across the life course  
Marcia P. Jimenez  
Comparing the impact of positive psychosocial resources on favorable cardiovascular health in young adulthood  
Farah Qureshi  
Job strain and the prevalence of uncontrolled hypertension among white-collar workers  
Mathilde Lavigne-Robichaud  
Longitudinal Associations of Neighborhood Crime and Safety with Blood Pressure: The Multi-Ethnic Study of Atherosclerosis (MESA)  
Stephanie Mayne  
Social integration and ten-year cardiovascular mortality in a US probability sample  
Steven D. Barger

1:30pm - 3:00pm  
OCCUPATION AND HEALTH  
Chair: Debra Silverman  
Gender, occupational class, and mental health: Evidence from a retrospective cohort Study of U.S. aluminum manufacturers  
Holly Stewart  
Deaths of despair in an iconic industrial cohort of autoworkers  
Suzanne M. Dufault  
Nightshift work before and during pregnancy and offspring mental health disorders in adolescence  
Susanne Strohmaier  
Cumulative occupational exposure to diesel engine exhaust and hematologic parameters in the UK Biobank  
Jason Y. Y. Wong  
Estimating counterfactual risk of chronic obstructive pulmonary disease mortality under hypothetical interventions on occupational exposure to diesel exhaust  
Sadie Costello  
Associations between traumatic brain injury and self-reported listening difficulty in complex acoustic environments among post-9/11 war veterans  
Kelly M. Reavis

3:00pm - 3:30pm  
Break and Poster Viewing  

3:30pm - 5:00pm  
SOCIAL DETERMINATION OVER THE LIFE COURSE  
Chair: Sandro Galea  
Educational mobility across generations and depressive symptoms over 10 years among US Latinos  
Julia B. Ward  
Racial residential segregation and racial disparities in stillbirth in the United States  
Andrew Williams  
Preterm birth and selection in utero among males following the November 2015 Paris attacks  
Tim Bruckner  
Life course income and the transmission of psychological distress: An intergenerational analysis of the Panel Study of Income Dynamics (PSID)  
Bozena Katic  
The association between immigration history and inflammatory marker profiles among older Mexican American adults  
Chantel Martin  
Socioeconomic mobility and offspring Type 2 Diabetes: A case for a multi-generational view on health  
Lindsay Fernandez-Rhodes
3:30pm - 5:00pm

METHODS FOR MEDIATION ANALYSIS: RECENT DEVELOPMENTS AS WELL AS COMPARING AND INTEGRATING APPROACHES
Chair: Chanelle Howe
Are associations between prenatal antidepressant exposure and toddler behavior mediated by gestational age at birth?
Mollie Wood
Integrating methods for environmental mixtures in mediation analysis: a statistical tool for evaluating environmental health disparities
Andrea Bellavia
The use of an instrument for a mediator in mediation analysis: A simulation study and application to an environmental epidemiology example
Laura Corlin
Comparison of methods for longitudinal mediation analysis using cognitive health data
Judith Rijnhart
Mechanistic models require input parameters that often cannot be estimated without bias
Eleanor Murray

3:30pm - 5:00pm

PHARMACOEPIDEMIOLOGIC RESEARCH: ADDRESSING PRESSING PUBLIC HEALTH PRIORITIES THROUGH NOVEL STUDY DESIGN AND ANALYTIC METHODS
Chair: Jennifer Lund
Medical use of newly marketed ER opioid analgesics tends to focus on back and joint pain, not cancer pain
Jessica C. Young
Trends in opioid and non-opioid prescription oral analgesic use by HIV status
Chelsea Canan
A novel claims-based algorithm to predict opioid overdose in the US
Jenny Sun
Case-crossover design in pharmacoepidemiologic studies of drug interactions
Katsiaryna Bykov
Effects of time-varying stress-ulcer prophylaxis strategies on risk of ventilator associated events
Xiaojuan Li

3:30pm - 5:00pm

EXAMINING DIETARY, BEHAVIORAL & MEDICAL EXPOSURES IN RELATION TO FERTILITY-RELATED OUTCOMES
Chair: Penelope Howards
Administration of antineoplastic drugs, use of personal protective equipment, and fecundity in female nurses
Feiby L. Nassan
Infertility among African American women with systemic lupus erythematosus compared to healthy women: A pilot study
Meghan Angley
Phytoestrogen intake and fecundability in a North American cohort of pregnancy planners
Amelia K. Wesselink
Dairy consumption and risk of early natural menopause
Alexandra Purdue-Smithe
Cadmium exposure and ovarian reserve in women ages 35-49 years: The impact of urinary creatinine adjustment method on results
Kristen Upson

3:30pm - 5:00pm

SOCIAL AND ENVIROMENTAL RISK FACTORS FOR INFECTION AND LINKS WITH CHRONIC DISEASE
Chair: Allison Aiello
Persistent disparities in pathogen burden in the U.S., 1999 – 2014
Rebecca C. Stebbins
Individual and community-level risk factors of lyme disease in Pennsylvania using electronic health records

Katherine A. Moon

The potential impact of interventions to reduce enteropathogen infection early in life on child growth: results from the MAL-ED study

Elizabeth T. Rogawski

Relation of occupational facemask usage on influenza virus carriage and self-reported influenza in industrial hog operation (IHO) workers in North Carolina, 2013-2014

Anastasia S. Lambrou

Cancers attributable to infections in the United States in 2014

Karen Volesky

Helicobacter pylori sero-positivity and its association with incident all-cause and Alzheimer dementia in large national surveys

May A. Beydoun

3:30pm - 5:00pm

CANCER EPIDEMIOLOGY: ETIOLOGY AND IMPACT

Chair: Elizabeth Platz

Benign thyroid diseases and risk of thyroid cancer: A nationwide cohort study

Cari Kitahara

Physical activity and colorectal cancer risk in the Multiethnic Cohort Study

Song-Yi Park

Diabetes in relation to Barrett’s esophagus and esophageal/esophagogastric junction adenocarcinomas: a pooled analysis from the International BEACON Consortium

Jessica L. Petrick

A prospective study of circulating branched-chain amino acids (BCAAs) and obesity-related cancer risk in women

Deirdre K. Tobias

Cancers averted among HIV-infected adults during 2008-2012

Jessica Yasmine Islam

Latency estimation for chronic disease risk

Mingyang Song

3:30pm - 5:00pm

LATE BREAKER

Chair: Shawnita Sealy-Jefferson

Physical exertion immediately prior to placental abruption: A Case Crossover Study

Harpreet S. Chahal

Air pollution and preterm birth in California: assessment of critical exposure windows

Paige Sheridan

Ambient pesticide exposure during pregnancy and risk of cerebral palsy: a California statewide study

Zeyan Liew

Prenatal maternal depression, exposure to traffic, and child acute lower respiratory illnesses

Jill Hahn

Does delivery mode influence infant weight gain and adiposity over the first year of life?

Mingyu Zhang

Pregnancy duration and risk of ovarian and endometrial cancer

Anders Husby

5:30pm - 6:30pm

Poster Session 2 & Reception (cash bar)

6:30pm - 7:30pm

SPC Business Meeting - all SPC members welcome

7:30pm - 10:30pm

SPC Social
Thursday, June 21, 2018

7:00am - 7:50am  
SPC Roundtables (Tickets Required)  
Constellation Foyer

7:00am- 8:00am  
Continental Breakfast  
Constellation Foyer

7:30am - 6:00pm  
Registration  
Constellation CDEF

8:00am - 9:30am  
PLENARY SESSION 2  
Speaker: Donna Dean  
Tyroler Award Winner: Michael Harhay  
Lilienfeld Award Winner: Kara Rudolph  
Recording  
Constellation AB

9:30am - 10:00am  
Break and Poster Viewing  
Constellation CDEF

10:00am - 11:30am  
INNOVATIVE STUDIES IN GLOBAL HEALTH  
Chair: Ezra Susser  
Constellation A

- Longer paid maternity leave increases breastfeeding duration: Longitudinal evidence from 41 low- and middle-income countries  
  Yan Chai

- Depressive symptoms among married women in rural Bangladesh: impact of intimate partner violence exposure and severity  
  Precious Esie

- Decomposition of maternal education and wealth inequalities in child mortality and access to safe water and sanitation and hygiene in Ethiopia  
  Sara McElroy

- Drought and undernutrition among children under 5 in Uganda  
  Adrienne Epstein

- Gender differences in nonmedical prescription drug use trends among adolescents in three South American countries from 2007-2015  
  Alexander Perlmutter

- Questioning the gold standard: methodological concerns in cluster randomized trials of public health interventions in low- and middle-income countries  
  Nanor Minoyan

10:00am - 11:30am  
INNOVATIVE METHODS IN VIOLENCE EPIDEMIOLOGY  
Chair: Ali Rowhani-Rahbar  
Recording  
Constellation B

- Life-course impact of childhood maltreatment on midlife health-related quality of life in women: longitudinal mediation analysis for potential pathways  
  Hsing-Hua S. Lin

- Exposure to community violence and risk of self-harm in California: A multi-level population-based case-control study  
  Ellicott Matthay

- Police use of force training reforms and injuries and deaths due to legal intervention in Richmond, California  
  Kriszta Farkas

- Conditional cash transfers and violence: A Quasi-Experimental Study of Mexico’s oportunidades program  
  Rose Kagawa

- Fatal and non-fatal firearm injuries among post-9/11 veterans in Oregon  
  Tess A. Gilbert

- How could firearm disqualification among those with a history of intimate partner violence affect population and female-specific rates of homicide? An agent-based modeling approach  
  Ava Hamilton

10:00am - 11:30am  
THE EPIDEMIOLOGY OF AGING ENTERS ADOLESCENCE: AWKWARD AND EYE-OPENING DISCOVERIES THAT COULD MATURE THE FIELD  
Chair: Jennifer Weuve  
Baltimore/Annapolis

- Do routinely collected electronic medical records accurately measure Alzheimer disease and related dementia diagnoses?  
  Karen C. Schliep
Do people with Alzheimer’s disease improve with repeated testing? Unpacking the role of content and context in retest effects

**Alden Lawrence Gross**

Early-life socioeconomic status and late-life disparities in memory functioning among US military veterans and non-veterans.

**Anusha Vable**

Income volatility in young adulthood is associated with incident cardiovascular disease and all-cause mortality: the CARDIA study.

**Tali Elfassy**


**Tara McAlexander**

10:00am - 11:30am

**OTC, RX, & OPIOIDS: PATTERNS OF USE & EMERGING EVIDENCE IN PERINATAL AND PEDIATRIC EPIDEMIOLOGY**

**Chair: Sunni Mumford**

Association between maternal acetaminophen use and adverse birth outcomes in a pregnancy and birth cohort

**Jasleen S. Arneja**

Maternal acetaminophen use and problem behavior in childhood and adolescence

**Samantha E. Parker**

Prenatal antibiotics exposure and the risk of autism spectrum disorders: A population-based cohort study

**Amani Hamad**

Paternal preconception cannabis use and risk of birth defects in the National Birth Defects Prevention Study

**Andrew Olshan**

Trends in opioid use disorder reported at delivery hospitalization, 1999-2014

**Sarah C. Haight**

Age Variations in the prevalence of opioid use disorders, treatment, and treatment types in a Commercially Insured Population of Pregnant Women in the United States

**Laura Gressler**

10:00am - 11:30am

**NATURAL EXPERIMENTS AND POPULATION HEALTH INTERVENTIONS**

**Chair: Laura Anderson**

Impact of marijuana legalization in Uruguay on adolescent use of other substances

**Hannah Laqueur**

Long-term impact of disaster experiences on cardiometabolic risk: A natural experiment from the 2011 Great East Japan Earthquake and Tsunami

**Koichiro Shiba**

Using linked public health data systems to investigate the relationship between early intervention services and 3rd grade standardized test scores among lead-exposed children

**Jeanette A. Stingone**

Understanding the effect of a public health detailing campaign on initial exposure to opioid analgesic prescriptions

**Michelle L. Nolan**

The effect of the Affordable Care Act on human papillomavirus vaccine uptake among young women: Findings from NHANES, 2007-2014

**Samantha Raymond**

10:00am - 11:30am

**EXPLORING DIABETES EPIDEMIOLOGY: FROM GENOMICS AND HORMONES TO ENVIRONMENTAL AND SOCIAL FACTORS**

**Chair: Tamarra James-Todd**

Differential sex effects of X chromosome methylation on development of type 1 diabetes: The Diabetes Autoimmunity Study in the Young

**Randi K. Johnson**

The association between gestational weight patterns in early pregnancy and large-for-gestational age infants among women with Type I Insulin-Dependent Diabetes

**Katherine Bowers**

Page 10 of 18
Plasma levels of prolactin and progesterone in association with gestational diabetes risk and cardiometabolic profile in a prospective Multi-racial pregnancy cohort

Mengying Li

Persistent organic pollutants and gestational diabetes among healthy non-obese women in NICHD Fetal Growth Studies, Singletons

Mohammad L. Rahman


Saranya Ravi

Gentrification, neighborhood displacement, and incident diabetes among World Trade Center Health Registry enrollees, 2003–2016

Melanie Jacobson

10:00am - 11:30am

CANCER SURVIVORSHIP

Chair: Hazel Nichols

The influence of breast cancer diagnosis on changes in serum 25-hydroxyvitamin D over time

Katie O'Brien

A comparison of methodological approaches on the association between de novo vitamin D supplement use post-diagnosis and breast cancer mortality

Jamie Madden

Survivor bias, selective attrition, and reverse causality, oh my

Hailey Banack

Obesity and prostate cancer recurrence following radical prostatectomy

Crystal S. Langlais

Reconstructing caregiving family networks among cancer decedents using Danish population-based registries

Katherine Ornstein

11:30am - 2:00pm

Lunch (on your own)

12:00pm - 1:00pm

Lunchtime Sessions (lunch not included)

WHO WANTS TO BE AN EPIDEMIOLOGIST?

Constellation A

Ian Shrier

Discussants: Jay Kaufman, Katherine Keyes and Sonja Swanson

12:00pm - 1:00pm

SPC CAREER PANEL

Constellation B

Recording

Michael Jackson

Ulka Campbell

Ashley Naimi

Jennifer Brooks

1:00pm - 2:00pm

SER Business Meeting - All Members Welcome

Baltimore/Annapolis

SYMPOSIA 2

2:15pm - 3:45pm

BALANCING INTERNAL AND EXTERNAL VALIDITY – CAN ONE REALLY HAVE IT ALL?

Constellation A

Chairs: Catherine Lesko and Matthew Fox

Overview of the relationship between internal and external validity

Catherine Lesko

Introduction to and overview of the distinction between generalizability and transportability

Laura Balzer

Response: Representative sampling is not necessary

Til Sturmer

Sensitivity analyses for external validity

Trang Nguyen

Response: parallels with sensitivity analyses for internal validity

Liz Stuart

Implications of G-formula and agent based models: A Practical Example

Ellie Murray
Response to Implications of G-formula and agent based models
Jessie Edwards
Where are we headed with external validity?
Daniel Westreich

2:15pm - 3:45pm
CHALLENGES FOR WOMEN IN EPIDEMIOLOGY AND SYSTEMIC AND EQUITABLE SOLUTIONS
Chairs: Stephanie Engel and Andrew Olshan
Discussant Panel
Donna Dean
Diane Lauderdale
Kay Dickersin
Martha Werler

2:15pm - 3:45pm
TRIAL EMULATION USING OBSERVATIONAL STUDIES: THE CASE OF AGING OUTCOMES
Chairs: Michelle Odden and Adina Zeki Al Hazzouri
Mendelian randomization and trial analogues in elderly populations
Sonja Swanson
How to choose time zero when emulating a target trial using observational data
Miguel Hernan
Statins and cognitive decline: Methods to address bias in observational studies
Adina Zeki Al Hazzouri
Closing the gap between observational and randomized research on prevention of Alzheimer's Disease
Maria Glymour

2:15pm - 3:45pm
MARCHING TOWARDS PROGRESS IN CAUSAL INFERENCE FOR HEALTH DISPARITIES RESEARCH
Chairs: John Jackson and Chanelle Howe
Construct validity and causal inference: On the measurement of social causes
Ashley Naimi
Back to basics: What was the question again?
Whitney Robinson
Explaining the disparity of interest when confounders are associated with race/ethnicity
John Jackson
Minimizing survival-related and other sources of selection bias in studies of racial health disparities: the importance of the target population and study design
Chanelle Howe
Discussant
Linda Valeri

2:15pm - 3:45pm
RURAL HEALTH IN THE US: DO WE HAVE THE RIGHT MEASURES FOR THE RIGHT QUESTIONS?
Chairs: Christine Gray and Annemarie Hirsch
Context matters: what metrics are used where for socioeconomic status and position
Kristen M. Rappazzo
Are urban and rural health differences due to exposure prevalence variation or interaction: when and why does it matter?
Katherine Keyes
Environmental epidemiology in geographies with a range of place types: what does rural have to do with it?
Brian S. Schwartz
Missing data in rural health: No literally its missing
Lynne C. Messer
Opioids in rural America
Marissa Seamans
2:15pm - 3:45pm

EPIDEMIOLOGICAL APPROACHES TO IDENTIFY POLICY SOLUTIONS FOR THE OPIOID EPIDEMIC
Chairs: Magdalena Cerda

Prescription drug monitoring programs and their impact on prescription opioid and heroin overdose
Magdalena Cerda

Joint effects of state medical marijuana laws and prescription drug monitoring programs on opioid overdose mortality among National Health Interview Survey participants, 1986-2011
June Kim

Pharmaceutical industry payments to physicians and changes in prescribing behaviors and opioid overdoses in the United States
Ariadne Rivera-Aguirre

Epidemiologic approaches to evaluate public health policies that prevent transitions to heroin and mitigate related harms
Brandon Marshall

Discussant
Pia Mauro

2:15pm - 3:45pm

THE UTILITY AND FEASIBILITY OF NEW INDICATORS OF HEALTH INEQUALITY
Chairs: Zinzi Bailey and Lorraine Dean

Racialized legal status as a social determinant of health
Asad L. Asad and Matthew Clair

Selecting reimagined variables: Using empirical evaluation techniques to choose measures of race, poverty and inequality
Junia Howell

Consumer credit and health
Lorrainie Dean

Discussant
Maria Glymour

3:45pm - 4:15pm

Break and Poster Viewing

4:15pm - 5:45pm

HEALTH DISPARITIES ACROSS THE LIFE SPAN
Chair: Yvette Cozier

Local immigration enforcement and preterm birth in California counties
Jacqueline M. Torres

A longitudinal study of the association between childhood family food insecurity and young adulthood mental health
Laura Pryor

Income inequities in women’s mental health: Exploring the role of unpaid family work
Bonnie Janzen

Cervical cancer screening, immigrant status, and access to primary care physicians in Montreal, Canada: A causal mediation analysis
Geetanjali D. Datta

Neighborhood socioeconomic status trajectory and colorectal cancer
Dong Zhang

4:15pm - 5:45pm

INSTRUMENTAL VARIABLES AND MENDELIAN RANDOMIZATION: A SIMPLE IDEA THAT BECAME COMPLICATED
Chair: Miguel Hernan

Caffeine and ischemic heart disease: A mendelian randomization study
Madeline Travers

Cognition, education and health: evidence from bivariate Mendelian randomization and the UK Biobank
Neil Davies
A comparison of two-stage least squares instrumental variable methods for estimating causal exposure effects in social epidemiology

Jerzy Eisenberg-Guyot

Estimation of direct effects in an instrumental variable setting: a proposed method and example estimating effects of a randomized housing trial on adolescent substance use

Kara E. Rudolph

Challenges to the interpretation of Mendelian randomization estimates with time-varying exposures

Jeremy A. Labrecque

4:15pm - 5:45pm

EPIDEMIOLOGY OF SELF-INJURIOUS BEHAVIOR: CURRENT UNDERSTANDING AND FUTURE DIRECTIONS

Chair: Jaimie Gradus

Opioid prescriptions and suicidal overdose

Anita Spiess

Use of natural language processing in electronic medical records to identify pregnant women with suicidal behavior: towards a solution to the complex classification problem

Bizu Gelaye

Predictors of adolescent emergency department visits for self-injury: A case-control study using statewide data from California

Sidra Goldman-Mellor

Long-term occupational trajectories and suicide: a 22-year follow-up of the GAZEL cohort study

Marine Azevedo Da Silva

Examining trends in fatal and nonfatal suicide attempts to understand increasing suicide rates, United States, 2006-2014

Jing Wang

Drugs and despair: an analysis of community-level opioid overdoses and suicide

Veronica A. Pear

4:15pm - 5:45pm

WOMEN’S HEALTH ACROSS THE LIFESPAN

Chair: Germaine Buck Louis

The vaginal microbiota and behavioral factors associated with genital Candida albicans detection in reproductive-age women

Sarah Brown

Female sleep patterns and recumbency in a North American preconception cohort

Sydney Willis

Leukocytes and exposure to ambient particulate matter air pollution in the Women’s Health Initiative

Rahul Gondalia

Prevalence of preexisting mental illness in SEER-Medicare ER+ breast cancer patients

Cole Haskins

Sex differences in the cross-sectional and longitudinal associations of electrocardiographic global electrical heterogeneity with cardiac structure and function in the atherosclerosis risk in Communities (ARIC) Study

Larisa Tereshchenko

Association of back pain with all-cause and cause-specific mortality among older white women in the study of osteoporotic fractures

Eric J. Roseen

4:15pm - 5:45pm

CONTEXUAL INFLUENCES ON OBESITY

Chairs: Cara Eckhardt and Rachel Widome

Residential relocation and risk of obesity: A natural experiment from the 2011 Great East Japan Earthquake and Tsunami

Hiroyuki Hikichi

Classifying pregnancy weight gain trajectories in the NICHD Fetal Growth Studies

Elizabeth Widome

The association between non-standard work schedules and overweight

Vanessa M. Oddo
Association of bisphenol A and its substitutes, bisphenol F and bisphenol S, with obesity in U.S. children and adolescents: a nationally representative population-based study
Buyun Liu

Disentangling the contribution of community-level factors to child body mass index across diverse geographies
Melissa N. Poulsen

BIG QUESTIONS AND NOVEL APPROACHES IN DEMENTIA EPIDEMIOLOGY
Chair: Melinda Power
Financial resources predict incident dementia independent of education in a nationally representative cohort of U.S. older adults
Laura J. Samuel

History of Cancer and Memory Decline: Results from the Health and Retirement Study
Monica Ospina-Romero

Hearing impairment and dementia risk: evaluating reverse causation using a genetic risk score for Alzheimer’s disease
Willa D. Brenowitz

Can treatments for hypertension be repurposed for the treatment of dementia?
Venexia Walker

Memory change after stroke: has the relationship weakened in recent years?
Chloe W. Eng

LATE BREAKER
Chair: Matthew Fox
Teaching reproducibility in epidemiology: A new course for future epidemiologists
Tarik Benmarhnia

Bias adjustment techniques are underutilized in HIV sexual risk estimation
Nguyen Khai Tran

Conducting case-control studies using survey data with complex sampling designs: A simulation study
Catherine X. Li

The balanced case-crossover design
Caroline Thompson

A doubly robust approach to evaluating the impact of natural experiments using synthetic controls
Roch Nianogo

Correspondence of self-reported birth characteristics with birth records in a web-based prospective cohort study
Lauren A. Wise

Poster Session 3 & Reception (cash bar)
Alumni Reunions (Contact your Institution for Details)

Friday, June 22, 2018

7:00am - 8:00am
Continental Breakfast
Constellation Foyer

7:30am - 1:15pm
Registration

8:00am - 9:30am
PLENARY SESSION 3
Distinguished Service to SER Award Winner: Julie Buring
Excellence in Education Award Winner: Stephen Cole
Brian MacMahon Early Career Award Winner: Sonja Swanson
Constellation AB

9:30am - 10:00am
Break and Poster Viewing
Constellation CDEF
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chair(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:00am - 11:30am</td>
<td>DOCTORAL EDUCATION: WHAT ARE WE TEACHING AND WHAT ARE WE MISSING?</td>
<td>Matthew Fox and Timothy Lash</td>
<td>Constellation A</td>
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<tr>
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<td>How to learn what works (causal inference methods)</td>
<td>Miguel Hernan</td>
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<td>How to evaluate causality when RCTs are not feasible</td>
<td>Maria Glymour</td>
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<td>Alternative approaches to generating control groups</td>
<td>Laura Rosella</td>
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<td>How to do surveillance, how to recognize a consequential question, and how to choose the right methods to get a useful answer</td>
<td>Barbara Mahon</td>
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<td>How to make your epidemiologic research matter to regulatory and reimbursement authorities?</td>
<td>Brian Bradbury</td>
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<td>All I really need to know I learned in grad school: DIY</td>
<td>Demian Christiansen</td>
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<td>10:00am - 11:30am</td>
<td>BAYES IS NOT A PAIN IN THE POSTERIOR</td>
<td>Richard MacLehose</td>
<td>Constellation B</td>
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<td>The why, what, when and how of Bayesian methods in epidemiology</td>
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<td>Recording</td>
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<td>Bayesian methods for limit of detection problems</td>
<td>Richard MacLehose</td>
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<td>Bayesian hierarchical models in environmental epidemiology</td>
<td>Jessie Buckley</td>
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<td>Bayesian meta-analysis and visual examination of assumptions via an online app</td>
<td>Ghassan Hamra</td>
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<td>Mediation analysis with Bayes using Stan</td>
<td>Tom Ahren</td>
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<td>Lawrence McCandless</td>
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<tr>
<td>10:00am - 11:30am</td>
<td>BIG DATA EPIDEMIOLOGY: SAMPLING FRAMES FOR 21ST CENTURY DATA SOURCES</td>
<td>Steven Mooney</td>
<td>Baltimore/Annapolis</td>
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<td>Big data or big anecdotes?</td>
<td>Daniel Westreich</td>
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<td>Does selection matter in research on racial/ethnic inequalities?</td>
<td>Elizabeth Rose Mayeda</td>
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<td>Epidemiology of crime and elusive sampling frames</td>
<td>Ali Rowhani-Rabbar</td>
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<td>Who thinks like that? Survey methods for non-survey data</td>
<td>Katherine Keyes</td>
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<td>Discussant</td>
<td>Jay Kaufman</td>
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<td>10:00am - 11:30am</td>
<td>EPIDEMIOLOGIC RESEARCH WITH INCOMPLETE AND IMPERFECT DATA: MAKING PROGRESS IN THE FACE OF UNCERTAINTY</td>
<td>Jessie Edwards</td>
<td>Frederick/Columbia</td>
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<td>Two-stage g-computation with missing exposure</td>
<td>Tiffany Breger</td>
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<td>Crossing data gaps with imaginary bridges</td>
<td>Eric Lofgren</td>
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<td>What can we infer about network structure from incomplete network data?</td>
<td>Kathryn Risher</td>
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<td>Little data inference: fitting marginal structural models with sparse strata</td>
<td>Alexander Keil</td>
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<td>Public health action in the face of uncertainty, where the rubber hits the road</td>
<td>Justin Lessler</td>
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### Chesapeake A

**10:00am - 11:30am**  
**MY BREADTH IS BETTER THAN YOUR DEPTH, OR, CAN WE GET THE BEST OF BOTH? LESSONS AND OPPORTUNITIES FOR CAUSAL INFERENCE INTEGRATION ACROSS STUDY DESIGNS FROM BEHAVIORAL AND MENTAL HEALTH**  
**Chairs:** Daniele Fallin and Elizabeth Stuart

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<tr>
<td>10:00am</td>
<td>Learning health systems for clinical psychiatric epidemiology</td>
<td>Daniele Fallin</td>
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<tr>
<td>10:15am</td>
<td>Opportunities for developmental disabilities research in an integrated healthcare delivery system</td>
<td>Peter Zandi</td>
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<td>10:30am</td>
<td>Using administrative claims data to inform policy and improve population health</td>
<td>Lisa Croen</td>
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<td>10:45am</td>
<td>Epidemiologic insights drawn from total population registry-based research</td>
<td>Colleen Barry</td>
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<tr>
<td>11:00am</td>
<td>Generalized meta-analysis for multivariate regression models across studies with disparate covariate information</td>
<td>Diana Schendel</td>
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<tr>
<td>11:15am</td>
<td>Using a natural experiment to examine the long-term impact of household unemployment on mortality</td>
<td>Nilanian Chatterlee</td>
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### Chesapeake B

**10:00am - 11:30am**  
**THINKING BEYOND DIAGNOSIS, PROCEDURE, AND DRUG CODES: SHAPING THE FUTURE OF EPIDEMIOLOGIC RESEARCH USING ELECTRONIC HEALTHCARE DATABASES**  
**Chairs:** Jessica Chubak, Sophia Newcomer and Jennifer Lund

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<tr>
<td>10:00am</td>
<td>An overview of the current electronic healthcare database landscape</td>
<td>Jennifer Lund</td>
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<td>10:15am</td>
<td>Vaccine safety surveillance using big healthcare data</td>
<td>Michael L. Jackson</td>
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<tr>
<td>10:30am</td>
<td>Using claims and electronic health record data to study cancer screening: challenges and opportunities</td>
<td>Jessica Chubak</td>
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<tr>
<td>10:45am</td>
<td>Harnessing electronic healthcare data for perinatal health research</td>
<td>Kristin Palmsten</td>
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<tr>
<td>11:00am</td>
<td>Getting back in the game: Understanding sports injuries and musculoskeletal conditions using claims and EHR data</td>
<td>Mackenzie Herzog</td>
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<tr>
<td>11:15am</td>
<td>How will epidemiologists shape the future of electronic health data-based research?</td>
<td>Sophia Newcomer</td>
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### President

**10:00am - 11:30am**  
**NOVEL METHODOLOGICAL APPROACHES IN STUDY OF WORK AND HEALTH**  
**Chairs:** Ellen Eisen and Sadie Costello

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<tr>
<th>Time</th>
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<tr>
<td>10:00am</td>
<td>The logic of causal inference3</td>
<td>Ashley Naimi</td>
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<td>10:15am</td>
<td>Assessing hypothetical interventions using observational data: envisioning regulatory steps to limit occupational exposures</td>
<td>Andreas Neophytou</td>
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<td>10:30am</td>
<td>Promise and pitfalls in organizational field experiments</td>
<td>J. Michael Oakes</td>
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<td>10:45am</td>
<td>Short-term disability leave, return to work, and recurrence: an analysis using g-methods</td>
<td>Sally Picciotto</td>
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<tr>
<td>11:00am</td>
<td>Using a natural experiment to examine the long-term impact of household unemployment on mortality</td>
<td>David Rehkopf</td>
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**11:30am - 12:00pm**  
**Break**
PROFESSIONAL DEVELOPMENT SESSIONS

12:00pm - 1:00pm
NEGOTIATIONS ACROSS THE ACADEMIC LIFECOURSE
Chair: Daniel Westreich
Martha Werler
Germaine Buck Louis
Lisa Bodnar

TIME MANAGEMENT
Chair: David Savitz

ASK ANYTHING
Chair: Pam Factor-Litvak
Enrique Schisterman
Bernard Harlow
Madgalena Cerda
Jennifer Weuve

1:00pm
Meeting Adjourns

See you in Minneapolis - June 18-21, 2019