



Tuesday, June 19, 2018

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

Wednesday, June 20, 2018

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

10:00am - 11:30am	<p>MISCLASSIFICATION OF UNDERREPRESENTED GROUPS: CARING ABOUT SMALLER CATEGORIES Chair: Nadia Abuelezam</p> <p>Assessment, misclassification, and politicization of sexual orientation data Brittany Charlton</p> <p>Transgender population health: Methods, measures, and misclassification Sari Reisner</p> <p>Categorizing race: Discordance and misclassification challenges Nadia Abuelezam</p>	Frederick/Columbia
10:00am - 11:30am	<p>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</p> <p>Suboptimal sleep as a fundamental contributor to poor health and health disparities Chandra L. Jackson</p> <p>Social and environmental determinants of sleep health Dayna A. Johnson</p> <p>The measure and mismeasure of sleep Diane S. Lauderdale</p> <p>Measuring sleep with consumer wearable devices Peter James</p>	Chesapeake A
10:00am - 11:30am	<p>IS YOUR SOUP TOXIC OR NUTRITIOUS? METHODS FOR ASSESSING EXPOSURE MIXTURES IN ENVIRONMENTAL AND NUTRITIONAL EPIDEMIOLOGY Chairs: Anna Pollack and Jessie Buckley</p> <p>Bayesian methods to assess the impact of chemical mixtures on neurodevelopmental trajectories Shelley Liu</p> <p>Multidimensionality and dynamism: Extending methods in dietary patterns research Jill Reedy</p> <p>Fixing the problem by changing the question: Leveraging correlated exposures to estimate impacts of public health actions Alexander Keil</p> <p>Bayesian hierarchical modeling of correlated exposures Patrick Bradshaw</p> <p>Using methods for environmental mixtures in nutrition research: Prenatal nutrition and neurodevelopment Chris Gennings</p>	Chesapeake B Recording
10:00am - 11:30am	<p>ADVOCACY VS. SCIENCE: THE INHERENT TENSIONS IN COMMUNITY ENGAGEMENT IN EPIDEMIOLOGIC RESEARCH Chairs: Nichole Austin and Patricia O'Campo</p> <p>Introductory remarks Matthew Fox</p> <p>Ethics and community engagement in research Patricia O'Campo</p> <p>Do community-based approaches improve or hinder the quality of research outputs? J. Michael Oakes</p> <p>Use of community-engaged research to study and address environmental health disparities Sacoby Wilson</p> <p>Does involving the community compromise objectivity? Nichole Austin</p>	President
11:30am - 1:30pm	Lunch (on your own)	

Lunchtime Session (lunch not included)

12:00pm - 1:00pm	<p>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</p> <p>Nick Moran Sandro Galea Whitney Robinson Matthew Fox Maria Glymour</p>	Constellation B Recording
12:00pm - 1:00pm	<p>SER GOES INTERNATIONAL-EPIDEMIOLOGY IN GERMANY Chair: Andreas Stang</p> <p>Cancer epidemiology research: activities and opportunities in Germany Andreas Stang</p> <p>Cardiovascular epidemiology: research activities and opportunities in Germany Dhayana Dallmeier</p> <p>Infectious disease epidemiology: research activities and opportunities in Germany Osama Hamouda</p> <p>Cohort studies in Germany and public use opportunities for research Wolfgang Hoffman</p>	Baltimore/Annapolis
12:00pm - 1:00pm	<p>SER Student & Faculty Recruitment Fair</p>	Conway
	<p><u>CONCURRENT CONTRIBUTED SESSION 1</u></p>	
1:30pm - 3:00pm	<p>ENVIRONMENTAL EXPOSURES AND A SPECTRUM OF REPRODUCTIVE AND DEVELOPMENTAL HEALTH OUTCOMES Chair: David Savitz</p> <p>Effects of fine particulate matter and black carbon on markers of ovarian reserve and response among women undergoing in vitro fertilization Audrey Gaskins</p> <p>Male cellular telephone use and fecundability in a North American preconception cohort study Elizabeth Hatch</p> <p>Maternal concentrations of serum per- and polyfluoroalkylsubstances during pregnancy and birth size in British boys Anya Cutler</p> <p>Ambient air pollution and intrauterine growth restriction: physician diagnosis of intrauterine growth restriction versus population-based small-for-gestational age Carrie Nobles</p> <p>Neonatal concentrations of endocrine disrupting chemicals and child behavioral difficulties in a longitudinal US cohort Akhgar Ghassabian</p>	Constellation A
1:30pm - 3:00pm	<p>BIG DATA IN EPIDEMIOLOGY: CHALLENGES AND OPPORTUNITES Chair: Robert Platt</p> <p>Screening pregnant women for suicidal behavior in electronic medical records: diagnostic codes vs. clinical notes processed by natural language processing Qiuyue Zhong</p> <p>Evaluating predictive model discrimination using multiple sources of electronic health data: How much data do we need? Craig S. Meyer</p> <p>Novel use and combinations of population-based big data for the study of rare outcomes and transient ecological exposures Jennifer Ahern</p> <p>Quality measures for health system quality measurement: harnessing big data to advance global health Hannah H. Leslie</p> <p>Data sharing in big data epidemiology: 2 novel-ish approaches Stephen J. Mooney</p>	Constellation B Recording

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

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

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 LIFESPAN
TO INFORM PREVENTION**

**Chesapeake B
Recording**

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

President

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

Constellation CDEF

CONCURRENT CONTRIBUTED SESSION 2

3:30pm - 5:00pm

SOCIAL DETERMINATION OVER THE LIFECOURSE

Constellation A

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	<p>METHODS FOR MEDIATION ANALYSIS: RECENT DEVELOPMENTS AS WELL AS COMPARING AND INTEGRATING APPROACHES</p> <p>Chair: Chanelle Howe</p> <p>Are associations between prenatal antidepressant exposure and toddler behavior mediated by gestational age at birth?</p> <p>Mollie Wood</p> <p>Integrating methods for environmental mixtures in mediation analysis: a statistical tool for evaluating environmental health disparities</p> <p>Andrea Bellavia</p> <p>The use of an instrument for a mediator in mediation analysis: A simulation study and application to an environmental epidemiology example</p> <p>Laura Corlin</p> <p>Comparison of methods for longitudinal mediation analysis using cognitive health data</p> <p>Judith Rijnhart</p> <p>Mechanistic models require input parameters that often cannot be estimated without bias</p> <p>Eleanor Murray</p>	Constellation B Recording
3:30pm - 5:00pm	<p>PHARMACOEPIDEMIOLOGIC RESEARCH: ADDRESSING PRESSING PUBLIC HEALTH PRIORITIES THROUGH NOVEL STUDY DESIGN AND ANALYTIC METHODS</p> <p>Chair: Jennifer Lund</p> <p>Medical use of newly marketed ER opioid analgesics tends to focus on back and joint pain, not cancer pain</p> <p>Jessica C. Young</p> <p>Trends in opioid and non-opioid prescription oral analgesic use by HIV status</p> <p>Chelsea Canan</p> <p>A novel claims-based algorithm to predict opioid overdose in the US</p> <p>Jenny Sun</p> <p>Case-crossover design in pharmacoepidemiologic studies of drug interactions</p> <p>Katsiaryna Bykov</p> <p>Effects of time-varying stress-ulcer prophylaxis strategies on risk of ventilator associated events</p> <p>Xiaojuan Li</p>	Baltimore/Annapolis
3:30pm - 5:00pm	<p>EXAMINING DIETARY, BEHAVIORAL & MEDICAL EXPOSURES IN RELATION TO FERTILITY-RELATED OUTCOMES</p> <p>Chair: Penelope Howards</p> <p>Administration of antineoplastic drugs, use of personal protective equipment, and fecundity in female nurses</p> <p>Feiby L. Nassan</p> <p>Infertility among African American women with systemic lupus erythematosus compared to healthy women: A pilot study</p> <p>Meghan Anglely</p> <p>Phytoestrogen intake and fecundability in a North American cohort of pregnancy planners</p> <p>Amelia K. Wesselink</p> <p>Dairy consumption and risk of early natural menopause</p> <p>Alexandra Purdue-Smithe</p> <p>Cadmium exposure and ovarian reserve in women ages 35-49 years: The impact of urinary creatinine adjustment method on results</p> <p>Kristen Upson</p>	Frederick/Columbia
3:30pm - 5:00pm	<p>SOCIAL AND ENVIRONMENTAL RISK FACTORS FOR INFECTION AND LINKS WITH CHRONIC DISEASE</p> <p>Chair: Allison Aiello</p> <p>Persistent disparities in pathogen burden in the U.S., 1999 – 2014</p> <p>Rebecca C. Stebbins</p>	Chesapeake A

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

Karena 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

**Chesapeake B
Recording**

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

President

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

Constellation CDEF

Charles

Off-Site

Thursday, June 21, 2018

7:00am - 7:50am	SPC Roundtables (Tickets Required)	
7:00am- 8:00am	Continental Breakfast	Constellation Foyer
7:30am - 6:00pm	Registration	
8:00am - 9:30am	<u>PLENARY SESSION 2</u> Speaker: Donna Dean Tyroler Award Winner: Michael Harhay Lilienfeld Award Winner: Kara Rudolph	Constellation AB Recording
9:30am - 10:00am	Break and Poster Viewing	Constellation CDEF
10:00am - 11:30am	<u>CONCURRENT CONTRIBUTED SESSION 3</u> INNOVATIVE STUDIES IN GLOBAL HEALTH Chair: Ezra Susser 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	Constellation A
10:00am - 11:30am	INNOVATIVE METHODS IN VIOLENCE EPIDEMIOLOGY Chair: Ali Rowhani-Rahbar 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	Constellation B Recording
10:00am - 11:30am	THE EPIDEMIOLOGY OF AGING ENTERS ADOLESCENCE: AWKWARD AND EYE-OPENING DISCOVERIES THAT COULD MATURE THE FIELD Chair: Jennifer Weuve Do routinely collected electronic medical records accurately measure Alzheimer disease and related dementia diagnoses? Karen C. Schliep	Baltimore/Annapolis

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

Association between unconventional natural gas development (UNGD) activity and hospitalization among heart failure patients in northeastern Pennsylvania, 2008-2015

Tara McAlexander

10:00am - 11:30am

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

Frederick/Columbia

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

Chesapeake A

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

**Chesapeake B
Recording**

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

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

Do supportive family behaviors promote diabetes self-management in resource limited urban settings? – a cross sectional study.

Saranya Ravi

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

Melanie Jacobson

10:00am - 11:30am

CANCER SURVIORSHIP

President

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

**Constellation B
Recording**

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

Baltimore/Annapolis

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

Frederick/Columbia

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

Chesapeake A

2:15pm - 3:45pm	<p>EPIDEMIOLOGICAL APPROACHES TO IDENTIFY POLICY SOLUTIONS FOR THE OPIOID EPIDEMIC Chairs: Magdalena Cerda</p> <p>Prescription drug monitoring programs and their impact on prescription opioid and heroin overdose Magdalena Cerda</p> <p>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</p> <p>Pharmaceutical industry payments to physicians and changes in prescribing behaviors and opioid overdoses in the United States Ariadne Rivera-Aguirre</p> <p>Epidemiologic approaches to evaluate public health policies that prevent transitions to heroin and mitigate related harms Brandon Marshall</p> <p>Discussant Pia Mauro</p>	Chesapeake B Recording
2:15pm - 3:45pm	<p>THE UTILITY AND FEASIBILITY OF NEW INDICATORS OF HEALTH INEQUALITY Chairs: Zinzi Bailey and Lorraine Dean</p> <p>Racialized legal status as a social determinant of health Asad L. Asad and Matthew Clair</p> <p>Selecting reimagined variables: Using empirical evaluation techniques to choose measures of race, poverty and inequality Junia Howell</p> <p>Consumer credit and health Lorraine Dean</p> <p>Discussant Maria Glymour</p>	President
3:45pm - 4:15pm	<p>Break and Poster Viewing</p> <p><u>CONCURRENT CONTRIBUTED SESSION 4</u></p>	Constellation CDEF
4:15pm - 5:45pm	<p>HEALTH DISPARITIES ACROSS THE LIFE SPAN Chair: Yvette Cozier</p> <p>Local immigration enforcement and preterm birth in California counties Jacqueline M. Torres</p> <p>A longitudinal study of the association between childhood family food insecurity and young adulthood mental health Laura Pryor</p> <p>Income inequities in women's mental health: Exploring the role of unpaid family work Bonnie Janzen</p> <p>Cervical cancer screening, immigrant status, and access to primary care physicians in Montreal, Canada: A causal mediation analysis Geetanjali D. Datta</p> <p>Neighborhood socioeconomic status trajectory and colorectal cancer Dong Zhang</p>	Constellation A
4:15pm - 5:45pm	<p>INSTRUMENTAL VARIABLES AND MENDELIAN RANDOMIZATION: A SIMPLE IDEA THAT BECAME COMPLICATED Chair: Miguel Hernan</p> <p>Caffeine and ischemic heart disease: A mendelian randomization study Madeline Travers</p> <p>Cognition, education and health: evidence from bivariate Mendelian randomization and the UK Biobank Neil Davies</p>	Constellation B Recording

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

Baltimore/Annapolis

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

Frederick/Columbia

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 recundability 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

Chesapeake A

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 Widen

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

4:15pm - 5:45pm

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

**Chesapeake B
Recording**

4:15pm - 5:45pm

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

President

6:00pm - 7:00pm
7:00pm

Poster Session 3 & Reception (cash bar)

Alumni Reunions (Contact your Institution for Details)

Constellation CDEF

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
Recording**

9:30am - 10:00am

Break and Poster Viewing

Constellation CDEF

SYMPOSIA 3

10:00am - 11:30am

DOCTORAL EDUCATION: WHAT ARE WE TEACHING AND WHAT ARE WE MISSING?

Constellation A

Chairs: Matthew Fox and Timothy Lash

How to learn what works (causal inference methods)

Miguel Hernan

How to evaluate causality when RCTs are not feasible

Maria Glymour

Alternative approaches to generating control groups

Laura Rosella

How to do surveillance, how to recognize a consequential question, and how to choose the right methods to get a useful answer

Barbara Mahon

How to make your epidemiologic research matter to regulatory and reimbursement authorities?

Brian Bradbury

All I really need to know I learned in grad school: DIY

Demian Christiansen

10:00am - 11:30am

BAYES IS NOT A PAIN IN THE POSTERIOR

**Constellation B
Recording**

Chair: Richard MacLehose

The why, what, when and how of Bayesian methods in epidemiology

Richard MacLehose

Bayesian methods for limit of detection problems

Jessie Buckley

Bayesian hierarchical models in environmental epidemiology

Ghassan Hamra

Bayesian meta-analysis and visual examination of assumptions via an online app

Tom Ahren

Mediation analysis with Bayes using Stan

Lawrence McCandless

10:00am - 11:30am

BIG DATA EPIDEMIOLOGY: SAMPLING FRAMES FOR 21ST CENTURY DATA SOURCES

Baltimore/Annapolis

Chair: Steven Mooney

Big data or big anecdotes?

Daniel Westreich

Does selection matter in research on racial/ethnic inequalities?

Elizabeth Rose Mayeda

Epidemiology of crime and elusive sampling frames

Ali Rowhani-Rahbar

Who thinks like that? Survey methods for non-survey data

Katherine Keyes

Discussant

Jay Kaufman

10:00am - 11:30am

EPIDEMIOLOGIC RESEARCH WITH INCOMPLETE AND IMPERFECT DATA: MAKING PROGRESS IN THE FACE OF UNCERTAINTY

Frederick/Columbia

Chair: Jessie Edwards

Two-stage g-computation with missing exposure

Tiffany Breger

Crossing data gaps with imaginary bridges

Eric Lofgren

What can we infer about network structure from incomplete network data?

Kathryn Risher

Little data inference: fitting marginal structural models with sparse strata

Alexander Keil

Public health action in the face of uncertainty, where the rubber hits the road

Justin Lessler

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

The value of traditional prospective cohorts

Daniele Fallin

Learning health systems for clinical psychiatric epidemiology

Peter Zandi

Opportunities for developmental disabilities research in an integrated healthcare delivery system

Lisa Croen

Using administrative claims data to inform policy and improve population health

Colleen Barry

Epidemiologic insights drawn from total population registry-based research

Diana Schendel

Generalized meta-analysis for multivariate regression models across studies with disparate covariate information

Nilanian Chatterlee

Chesapeake A

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

An overview of the current electronic healthcare database landscape

Jennifer Lund

Vaccine safety surveillance using big healthcare data

Michael L. Jackson

Using claims and electronic health record data to study cancer screening: challenges and opportunities

Jessica Chubak

Harnessing electronic healthcare data for perinatal health research

Kristin Palmsten

Getting back in the game: Understanding sports injuries and musculoskeletal conditions using claims and EHR data

Mackenzie Herzog

How will epidemiologists shape the future of electronic health data-based research?

Sophia Newcomer

Chesapeake B
Recording

10:00am - 11:30am

NOVEL METHODOLOGICAL APPROACHES IN STUDY OF WORK AND HEALTH

Chairs: Ellen Eisen and Sadie Costello

The logic of causal inference³

Ashley Naimi

Assessing hypothetical interventions using observational data: envisioning regulatory steps to limit occupational exposures

Andreas Neophytou

Promise and pitfalls in organizational field experiments

J. Michael Oakes

Short-term disability leave, return to work, and recurrence: an analysis using g-methods

Sally Piccioto

Using a natural experiment to examine the long-term impact of household unemployment on mortality

David Rehkopf

President

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

**Constellation B
Recording**

TIME MANAGEMENT

Chair: David Savitz

Frederick/Columbia

ASK ANYTHING

Chair: Pam Factor-Litvak

Enrique Schisterman

Bernard Harlow

Madgalena Cerda

Jennifer Weuve

**Chesapeake B
Recording**

1:00pm

Meeting Adjourns

See you in Minneapolis - June 18-21, 2019