8:00am - 5:30pm

Workshop Registration

8:30am - 12:30pm

**MORNING WORKSHOPS** (Registration Required)

Implementing G methods in complex longitudinal data  
Ashley Naimi

Data manipulation, visualization, and reproducible documents with R and the Tidyverse  
Malcolm Barret & Corinne Riddell

Critical review and preparation of manuscripts reporting epidemiologic findings  
(Modeled by AJE)  
Moyses Szuko

Confounding control for estimating causal effects: Looking under the hood  
Nicolle Gatto & Ulka Campbell

Hone your soft skills and own the job market  
Steven Mooney

1:00pm - 5:00pm

**AFTERNOON WORKSHOPS** (Registration Required)

Mendelian randomization: a practical guide  
Neil Davies

Using monte carlo simulations for quantitative bias analysis  
Hailey Banack & Elizabeth Rose Mayeda

Communicating research findings to the media and public  
Jennifer Loukissas

Deep learning for epidemiologists: An introduction to neural networks  
Kathryn Rough

Introduction to causal inference for multiple time point exposures  
Laura Balzer & Maya Petersen

E-values, unmeasured confounding, measurement error, and selection bias  
Tyler VanderWeele & Louisa Smith

3:00pm - 8:30pm

**SER Meeting Registration**

5:30pm - 7:30pm

**EVENING WORKSHOPS** (Registration Required)

Bayesian multilevel/longitudinal modeling  
Chuck Huber

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

How to make a picture worth a thousand words: Effectively communicating your research results using graphical statistics  
Michael Jackson

A primer on electronic health record research design and analysis  
Neal Goldstein

An introduction to predicting exposures and outcomes using omic biomarkers  
Paul Yousefi & Matthew Suderman

Infographics 101 for public health  
Sujani Sivanantharajah

7:00pm - 8:30pm

**Poster Session 1 & Reception** (cash bar)
Wednesday, June 19, 2019

7:00am - 7:45am  SPC Speed Networking (ticket required)  Skyway AB
6:45am - 8:00am  Continental Breakfast  Exhibit Hall
7:30am - 5:15pm  Registration  Nicollet Promenade

8:00am - 9:30am  PLENARY SESSION 1  Nicollet ABC
Session Chair: Andrew Olshan
SER President Address  Recording
Enrique Schisterman
Keynote Address
Alix Spiegel

9:30am - 10:00am  Break and Poster Viewing  Exhibit Hall

SYMPOSIA 1

10:00am - 11:30am  SPOTLIGHT ON THE CONTROLS: INTERESTING REAL-WORLD CHALLENGES FACED WITH CONTROL GROUPS AND THE IMPLICATIONS FOR RANDOMIZED CONTROLLED TRIALS.
Chairs: Jennifer Ahern and Maya Petersen
Cluster randomized trial design and interpretation in a rapidly evolving policy and implementation context: Insights from the Sustainable East Africa Research on Community Health (SEARCH) Trial
Maya Petersen
Measuring spillover effects in the treatment and control arms in cluster-randomized trials
Jade Benjamin-Chung
Adapting a community randomized trial design in response to a regional outbreak event: A case study of malaria elimination in Namibia
Mi-Suk Kang-Dufour
What happened to the controls in the Moving To Opportunity housing experiment?
Theresa Osypuk
Usual and unusual care: Selecting control groups in behavioral interventions
Brandon Marshall
Discussant
Enrique Schisterman

10:00am - 11:30am  THE ELEPHANT IN THE ROOM: CAUSAL INFERENCE IN THE FACE OF COMPETING EVENTS
Chairs: Jessie K. Edwards and Jessica G. Young
Making sense of analytic choices in competing events data using counterfactual causal models
Jessica G. Young
Choices about competing events, illustrated
Jessie K. Edwards
Separable effects: new estimands for causal inference in competing risk settings
Mats Stensrud
Discussant
Miguel Hernandez
Discussant
Stephen Cole

10:00am - 11:30am  THE PROMISE AND PERIL OF RANDOMNESS
Chair: Eric Lofgren
Do these results seem random to you? A validation approach for investigating multiple exposures using tree-based methods
Jeanette Stingone
Biologically or socially transmitted outcomes? Be (un)certain of your uncertainty!
Laura Balzer
Causal identification and randomness: why ‘chance confounding’ is a contradiction in terms
Daniel Westreich
Bad Doctors or Bad Luck?: Stochastic threats to common quality of care metrics
Eric Lofgren
Accounting for selection bias in the measurement of outbreak intervention efficacy
 Jon Zeiner

10:00am - 11:30am
REMOVE THE HESITATION FROM YOUR VALIDATION
 Chairs: Lisa Bodnar and Matthew Fox
What do SER members know about validation studies? Results of an informal survey
 Matthew Fox
Battle of the bias parameters: comparing methods for validating BMI in postmenopausal women
 Hailey Banack
The specific importance of specificity
 Timothy Lash
Cancer treatment and pregnancy outcomes: challenges in validation and bias analyses
 Penelope Howards

10:00am - 11:30am
DIVERSITY & INCLUSION: EPIDEMIOLOGY AND COMMUNITY STAKEHOLDERS: IMPRESSIONS AND EXPERIENCES
 Chairs: Martha Werler and Elisa Jean-Baptiste
Is it time to develop an epidemiologic triad model to support the theory of community engaged scholarship?
 Ruby Nguyen
Who is responsible for eliminating health disparities? What are you doing about it?
 Mary Roary
Listen to and trust black women
 Shawnita Sealy-Jefferson
Intersections of race, culture, & sovereignty hurt american indian epidemiology
 Joseph Yracheta
Discussant
 Yvette Cozier

10:00am - 11:30am
GOOD EPI, BAD EPI: IS SHORT BIRTH SPACING REALLY THAT BAD?
 Chairs: Gavin Pereira and Katherine Ahrens
Why do we think there’s a causal effect?
 Mark Klebanoff
Is it all due to confounding and selection bias?
 Gavin Pereira
Response – No it’s not!
 Katherine Ahrens
It is all due to effect modification.
 Annette Regan
Response – Effect modification might exist but we have forgotten about low income countries, where it matters the most
 Amanuel Gebremedhin

10:00am - 11:30am
USE OF SIMULATION IN NON-INFECTIOUS DISEASE EPIDEMIOLOGY
 Chair: Melinda Power
Use of a simulation framework to combine data from multiple observational data sources
 Teresa J. Filshtein
Simulations for quantifying selection bias in lifecourse epidemiology
 Elizabeth Rose Mayeda
Simulating the bounds of plausibility: using agent-based models to estimate the impact of high-risk versus population-based approaches to prevent firearm violence
 Magdalena Cerda
Strategies to optimize simulation fidelity and code readability — Perspectives, pair programming, and open source
 James Burke and Luciana Copeland

11:30am - 1:30pm
Lunch (on your own)
Lunchtime Session (lunch not included)

12:00pm - 1:00pm
EARLY STAGE INVESTIGATORS - HONE YOUR SOFT SKILLS AND OWN THE JOB MARKET
 Chairs: Timothy Lash and Lauren McCullough
12:00pm - 1:00pm

**DAG HACK-A-THON: CROWDSOURCING DAG DEVELOPMENT WITH AN EXAMPLE FROM REPRODUCTIVE EPIDEMIOLOGY**
Chair: Matthew Fox & Ellie Murray
Nicollet B/C

**THE ART AND SCIENCE OF PEER REVIEW**
(Sponsored by Publications Committee)
Chair: Hailey Banack
Panelists:
Sunni Mumford
Jay Kaufman
Justin Lessler
Nicollet D3 Recording

**CONCURRENT CONTRIBUTED SESSION 1**

1:30pm - 3:00pm

**METHODS THAT ACKNOWLEDGE, ADDRESS, AND EVEN EMBRACE DATA COMPLEXITY**
Chairs: Maya Petersen and Kara Rudolph
Recording

- A quantile-based g-computation approach to addressing the effects of exposure mixtures
  **Alexander P. Keil**

- Censoring for loss to follow-up in time-to-event analyses of composite outcomes or in the presence of competing risks
  **Catherine Lesko**

- Disseminated effects in agent based models: A potential outcomes framework to inform pre-exposure prophylaxis coverage levels for HIV prevention
  **Ashley Buchanan**

- Improving instrumental variable studies of social determinants of health: evaluating the bias-variance tradeoff when adjusting for potential instrument-outcome confounders
  **Audrey Murchland**

- Guidelines for causal inference from pragmatic randomized trials require analytic methods from observational studies
  **Eleanor Murray**

- Valid causal effect estimates with machine learning algorithms
  **Ashley Naimi**

**NOVEL METHODS IN PERINATAL EPIDEMIOLOGY**
Chair: Anna Pollack
Nicollet BC

- Five complications of term pregnancies that predict future preterm delivery
  **Liv Grimstvedt Kvalvik**

- Interval between live birth and initiation of current pregnancy attempt and fecundability
  **Sydney K. Willis**

- How is gestational weight gain between clinical visits best estimated in twin and singleton pregnancies?
  **Michelle Dimitris**

- Firearm violence and preterm birth: Evidence of stochastic mediation by pregnancy complications and health behaviors
  **Dana Goin**

- Outbursts of anger immediately prior to placental abruption: A case-crossover study
  **Harpreet Chahal**

- Increase in preterm births among US Latina women after the 2016 presidential election
  **Alison Gemmill**

**CARDIOVASCULAR DISEASE**
Chair: Pam Lutsey
Nicollet D1

- The World Trade Center disaster and long-term CVD risk among firefighters
  **Molly Skerker**

- The importance of non-traditional risk factors for prediction of cardiovascular disease in women of reproductive age
  **Sonia M Grandi**

- Effect of longitudinally measured physical activity on the 10-year risk of heart failure among postmenopausal women: A Women's Health Initiative study
  **Sina Noshad**
Prevention of heart failure in hypertension - disentangling the role of evolving left ventricular hypertrophy and blood pressure lowering: the ALLHAT study

Larisa G. Tereshchenko

The impact of genetically predicted Hgb on ischemic heart disease myocardial infarction heart failure and venous thromboembolism using the UK Biobank

Shan Luo

The apparent protective effect of surgery versus medical treatment on mortality in patients with infective endocarditis: Possible selection bias and time-dependent confounding in cohort studies

Olivia Moir

1:30pm - 3:00pm

INJURY AND VIOLENCE

Chair: Steve Marshall

Incidence of maternal deaths due to overdose and suicide in California 2010-2012

Sidra Goldman-Mellor

A 15-year population-based investigation of sexual assault cases in Ontario Canada

Katherine Muldoon

Geographic variations in temporal trends in mortality from prescription opioids

Sarah Palumbo

Decomposition of the US black-white inequality in life expectancy: Quantifying the impact of the opioid epidemic

Mathew V. Kaing

News coverage of intimate partner homicides in New York City (2013-16): A systematic review

Sandhya Kajeepeta

Is marijuana use associated with decreased use of prescription opioids? Findings from toxicological testing results for fatally injured drivers

Guohua Li

1:30pm - 3:00pm

SOCIAL EPIDEMIOLOGY: RESEARCH AT THE INTERSECTION OF SOCIAL STRUCTURE AND PUBLIC POLICY

Chairs: Lynne Messer and Mahasin Mujahid

Understanding the role of social support in the relationship between perceived discrimination and telomere length: The multi-ethnic study of atherosclerosis (MESA)

Elleni Hailu

Acute care utilization among children experiencing eviction in San Francisco, California

Lara Cushing

The Effect of the 287(g) immigration program on pediatric hospitalizations for ambulatory sensitive conditions in North Carolina

Lindsay Fernandez-Rhodes

Do pro-family employee benefits mitigate the burden of competing workplace and domestic roles on women's depressive symptoms?

Jonathan Platt

The effects of paid family leave on child and parent mental health: A quasi-experimental study of U.S. state policies

Rita Hamad

Does declining state-level labor union density explain changing state-level racial and educational mortality inequities?

Jerzy Eisenberg-Guyot

1:30pm - 3:00pm

CANCER

Chair: Eric Polley

Using mendelian randomization to understand how chronotype influences breast cancer risk

Rebecca Richmond

Circulating immune cell composition and breast cancer risk

Jacob K. Kresovich

Evaluation of the association between UGT2B17 gene deletion and adverse symptomatology in postmenopausal women treated with exemestane on the CCTG MAP.3 trial

Vikki Ho

Cancer-attributable mortality among solid organ transplant recipients in the United States 1987-2014

Anne-Michelle Noone
A semi-supervised machine learning approach to detecting recurrent metastatic breast cancer cases using linked cancer registry and electronic medical record data

Albee Ling

Causal model-based reinforcement learning for physical activity interventions among prostate cancer survivors

Barbra A. Dickerman

1:30pm - 3:00pm

POLICY EVALUATIONS IN GLOBAL HEALTH RESEARCH

Chair: Robin Richardson

Association of China's Universal 2-child policy with changes in births and birth-related health factors

Hongtian Li

Does moving orphans out of institutional care improve their wellbeing? Using marginal structural models to estimate policy-relevant effects

Christine L. Gray

Exploiting minimum legal marijuana use age to assess the impact of marijuana legalization in Uruguay on marijuana use patterns

Ariadne Rivera-Aguirre

Understanding the impact of paid maternity leave policy on childhood diarrhea through mediation analysis: evidence from 40 low-and-middle-income countries

Yan Chai

Impact evaluation of explicit health guarantees policy in breast, gallbladder, stomach and colorectal cancer mortality

Maria Jose Monsalves

Evaluating the impact of the Maternal Health Voucher Scheme in rural Bangladesh: a quasi-experimental interrupted time-series analysis

Arijit Nandi

3:00pm - 3:30pm

Break and Poster Viewing

Exhibit Hall

3:30pm - 5:00pm

CONCURRENT CONTRIBUTED SESSION 2

TRACKING THE BURDEN OF SUBSTANCE ABUSE

Chair: Magdalena Cerda

Recording

Risk of suicide after emergency department visit for opioid overdose

Sidra Goldman-Mellor


Christopher L. Rowe

Surveillance of emergency medical services response with naloxone administrations - North Carolina April - September 2017

Lauren Tanz

Predicting drug overdose deaths in Rhode Island: A comparison of machine learning methods and variable selection procedures

Yu Li (Seashore)


Yingxi Chen

Alcohol and drug related offenses and risk for future firearm suicide among authorized purchasers of handguns in California

Julia P. Schleimer

3:30pm - 5:00pm

PERINATIAL AND PEDIATRIC EPIDEMIOLOGY

Chair: Nigel Paneth

Nicollet BC

Associations between oxidative stress and risk for preterm birth in Puerto Rico

Kelly Ferguson

The association between vigorous physical activity and time to pregnancy

Sifang Kathy Zhao

Validity of maternal weight and gestational weight gain measures from birth certificates

Paige D Wartko

Predictors of up-to-date vaccination in the National Immunization Survey-Child

Erika Fuchs
Antibiotic treatment of bacterial vaginosis to prevent preterm birth: an IPD meta-analysis with imputation of missing studies
Mark Klebanoff
Ambient temperature and acute risk of stillbirth
Jenna Kanner

3:30pm - 5:00pm

PERSPECTIVES IN PHARMACOEPIEMIOLOGY: COMPARING DATA, DESIGNS AND ANALYTIC GOALS
Chair: John Jackson

Replicating randomized trial results with observational data using the parametric g-formula: An application to intravenous iron treatment in hemodialysis patients
Angelo Karaboyas

Statins and risk of seven cancers: a population-based cohort study using electronic health records of 722,213 UK adults
Barbra A. Dickerman

Incretin-based drugs and the risk of lung cancer in patients with Type 2 Diabetes
Julie Rouette

Oral corticosteroid use during pregnancy and risk of preterm birth
Kristin Palmsten

Estimating the effect of implantable cardioverter defibrillators on mortality in patients with long QT syndrome using marginal structural models
Meng Wang

3:30pm - 5:00pm

DIABETES: RISK FACTORS AND RAMIFICATIONS
Chair: Stefanie Hinkle

Unhealthier food environments associated with higher hospitalization rates among adults with diabetes but not in most extreme “Food Swamps”
Aryn Phillips

The association between environmental quality and diabetes control in the U.S.
Jyotsna S. Jagai

Does liver fat mediate the estimated effect of BMI on type 2 diabetes risk? Evidence from The Multi-Ethnic Study of Atherosclerosis
Luis A. Rodriguez

Fasting plasma glucose diagnosis of gestational diabetes and the risk of late stillbirth: a mediation analysis in a case-control study from England UK
Peter WG Tennant

Gestational diabetes and longitudinal ultrasonographic measures of fetal growth in the NICHD fetal growth studies-singletons
Mengying Li

Gestational diabetes in relation to urinary incontinence in US black women
Yvette C Cozier

3:30pm - 5:00pm

NOVEL METHODS AND QUESTIONS IN UNDERSTANDING AND QUANIFYING HEALTH DISPARITIES
Chair: Nadia Abulezam

Does the type and timing of educational attainment influence health? A novel application of sequence analysis
Anusha Vable

Causal methods for evaluating the health effects of migration history
Adina Zeki Al Hazzouri

Longitudinal associations between worry about deportation and blood pressure, body mass index, and waist circumference among adult women: A community-based cohort study
Jacqueline M. Torres

Setting matters in the relationships of reported interpersonal discrimination with cardiovascular health: findings from CARDIA
Ganga Bey

Disentangling life-course socio-economic determinants of adult inflammation: a multi-cohort study using a counterfactual mediation framework
Cristian Carmeli
3:30pm - 5:00pm

MAPS, MODELS AND METHODS: APPROACHES IN INFECTIOUS DISEASE EPIDEMIOLOGY
Chair: Kumi Smith
Estimates of protection from natural immunity against enteric infections and diarrhea in a longitudinal birth cohort
Elizabeth McQuade
Finding the scientific question in the exposure haystack: re-analysis of a matched case-control study of animal-related risk factors for pediatric diarrhea in Kenya
Julianne Meisner
Compared to whom? Reference population matters when calculating relative measures of STI and HIV rates by sexual risk category
Jeremy Grey
Sustained virologic response as a surrogate marker for hepatocellular carcinoma after treatment of hepatitis C virus infection
Rohit P. Ojha
Spatiotemporal distribution of dengue, chikungunya and zika cases across different ethnic groups in Brazil and Colombia
Mabel Carabali
Population structure drives differential methicillin-resistant Staphylococcus aureus colonization dynamics
Matthew S. Mietchen

3:30pm - 5:00pm

LATE BREAKER
Chairs: Matthew Fox and Shawnita Sealy-Jefferson
Is social isolation as bad for health as smoking 15 cigarettes per day? Findings from two large prospective UK cohorts.
Robert Smith
State-level social capital in relation to county-level suicide in the United States: a multilevel analysis
Saloni Dev
The effect of an increased minimum wage on suicide rates in the U.S.
John A. Kaufman
Location of pre-exposure prophylaxis (PrEP) services across New York City neighborhoods: Do neighborhood socio-demographic characteristics and HIV prevalence matter?
Byoungjun Kim
Decreased emergency department usage rate following police killings of unarmed Black New Yorkers in 2013-2014
Sze Yan Liu
Evaluation of causal effects of time-varying prescription opioid use on mortality among insured adults in the United States
Hilary A. Aroke
The serpent of their agonies: Exploitation as structural determinant of mental illness
Seth J. Prins

5:30pm - 6:30pm
SPC Business Meeting - All SPC members welcome
Minnehaha
6:30pm - 7:30pm
Poster Session 2 & Reception (cash bar)
Exhibit Hall
7:30pm - 8:30pm
President's Reception - All Invited!
Exhibit Hall

Thursday, June 20, 2019

7:00am - 7:50am
SPC Roundtables (Tickets Required)
Exhibit Hall
7:00am - 8:00am
Continental Breakfast
Exhibit Hall
7:30am - 6:00pm
Registration
Exhibit Hall
8:00am - 9:30am
PLENARY SESSION 2
Session Chair: Enrique Schisterman
Cassel Lecture
Sandro Galea & Miguel Hernan
"Reconciling social epidemiology and causal inference"
Distinguished Service to SER Award
Sandro Galea

Tyroler Student Prize Paper Award Winner
Brittany Blouin
"Using Bayesian methods to adjust for exposure misclassification in a mediation analysis with multiple mediators: The role of hemoglobin levels and malnutrition in the association between Ascaris infection and IQ scores"

Lilienfeld Postdoctoral Award Winner
Matthieu Domenech de Cellès
"Unraveling the Seasonal Epidemiology of Pneumococcus"

9:30am - 10:00am
Break and Poster Viewing
Exhibit Hall

CONCURRENT CONTRIBUTED SESSION 3

10:00am - 11:30am
ENVIRONMENTAL HEALTH: MEASUREMENT AND OUTCOMES
Chair: Paulina Mendola
Why error propagation might matter: the case of area-level noise pollution and health in the United States
Joan Casey
Residential mobility and misclassification of environmental exposures in a prospective cohort
Danielle N. Medgyesi
Hurricane exposure microfinance and key infectious diseases in Haiti
Molly Rosenberg
Air pollution poverty and cardiometabolic dysfunction among United States adolescents
Edmond Shenassa
Persistent organic pollutants exposure during early pregnancy and longitudinal fetal growth in the NICHD Fetal Growth Studies - Singletons
Marion Ouidir

10:00am - 11:30am
UNDERSTANDING, IMPROVING, POPULATION MENTAL HEALTH
Chair: Sandro Galea
Estimating the effect of neighborhood deprivation on mental health among refugees and non-refugee immigrants to Sweden: a natural experiment
Eva Raphael
Mitigating the mental health consequences of mass shootings: an in-silico experiment
Salma M. Abdalla
Food insecurity and antepartum depression in the National Children's Study
Megan Richards
Changes in age of handgun purchase policies and adolescent suicide fatalities in the United States
Julia Raifman
Associations of maternal trauma experiences with offspring behavioral problems: Findings from the PrOMIS cohort study
Bizu Gelaye
Age period and cohort effects of loneliness self-esteem and self-derogation among adolescents from 1991-2016
Ava Hamilton

10:00am - 11:30am
METHODOLOGICAL ISSUES FOR REPRODUCTIVE EPIDEMIOLOGIC RESEARCH
Chair: Brian Whitcomb
Dealing with competing events in the estimation of the health effects of fertility treatment on the offspring
Yu-Han Chiu
Prediction of pregnancy loss by vaginal bleeding and nausea patterns in early pregnancy: prospective cohort nested within a randomized controlled trial
Elizabeth A. DeVilbiss
Evaluating methods to handle missing pregnancy indication: If she gave birth was she pregnant?
Neil Perkins
Target trial emulation in perinatal epidemiology: Applications in the Generation R Study
Jeremy A. Labrecque
Implications of the choice of sample population for the development of risk prediction models for long-term outcomes incorporating pregnancy-related predictors

Sonia M. Grandi

10:00am - 11:30am

RISK FACTORS FOR ALZHEIMER’S DISEASE AND COGNITIVE LOSS

Chair: David Jacobs

The impact of public transportation use on cognitive function in older age: A quasi-experimental evaluation of the free bus pass policy in the UK

Erica Reinhard

Association of depression and posttraumatic stress disorder with all-cause mortality among older disaster survivors of the 2011 Great East Japan Earthquake and Tsunami

Xiaoyu Li

Current and past physical activity and risk of Alzheimer's disease: a longitudinal study

Yian Gu

Differential returns to education by sociodemographic subgroup in predicting rate of memory decline

Anusha Vable

Association between GlycA and cognitive function “results from the ELSA” Brasil

Claudia Kimie Suemoto

Educational inequalities in survival after dementia diagnosis

Dominika Seblova

10:00am - 11:30am

POTENTIAL IMPACTS OF POLICIES ON POPULATION HEALTH

Chair: Lorna Thorpe

The effect of timing of earned income tax credit refunds on preterm birth

Deborah Karasek

Inconsistent effect on background checks of newly-enacted comprehensive background check policies in 4 US states

Alvaro Castillo-Carniglia

Changes in emergency department dental visits after Medicaid expansion

Hawazin Elani

Effects of the Affordable Care Act Medicaid expansion on subjective well-being: quasi-experimental evidence from the United States adult population

Lindsay Kobayashi

Safety of guidelines recommending LAIV for routine use in children and adolescents with asthma

Gabriela Vazquez Benitez

10:00am - 11:30am

FIREARMS AND SUBSTANCE USE: INFORMING POLICY TO PREVENT INJURY AND VIOLENCE

Chair: Rose Kagawa

Efficacy of a behavioral intervention among patients with gunshot wounds: A comparison of analytic methods

Vivian Lyons

Prevalence of “Responsible Selling” tendencies in an online firearms marketplace

Ashley M. Hernandez

Armed and prohibited: Characteristics of legal firearm purchasers in California who subsequently become prohibited persons

Veronica A. Pear

Non-violent misdemeanors as a risk factor for future arrest for violent crime among hand gun purchasers

Aaron Shev

Patterns of medical marijuana and alcohol laws and the association with traffic fatalities 1987-2017

Spruha Joshi

Driving under the influence of alcohol or cannabis in the United States: Relationship to state medical marijuana laws

David S. Fink
10:00am - 11:30am  CANCER SCREENING  Lakeshore B
Chair: Steven Stovitz
Do the benefits of cervical cancer screening outweigh its harms: a decision modeling analysis comparing measures of harms and benefits of screening with cytology and HPV testing
Talia Malagon
A prospective study of cervical intraepithelial neoplasia its treatments and fecundability
Lauren A. Wise
Trends in surgical treatment for breast cancer in Germany after the implementation of the mammography screening program
Andreas Stang
Associations between serum inflammatory biomarkers and colorectal cancer incidence in the Singapore Chinese Health Study (SCHS)
Elizabeth Polter
Can we screen more precisely for colorectal cancer?
Ellen M. Mikkelsen
Accounting for endoscopic screening in colorectal cancer risk prediction models
Esther K. Wei

11:30am - 2:00pm  Lunch (on your own)

12:00pm - 1:00pm  SER GOES INTERNATIONAL - EPIDEMIOLOGY IN CHILE  Nicollet A
Chair: Veronica Iglesias
Advance training in epidemiological research in Chile: challenges and opportunities
Veronica Iglesias
Cardiovascular disease epidemiology research in Chile
Carolina Nazzal
Environmental epidemiology: Respiratory health of asthmatic and non-asthmatic children and short-term exposure to air pollution, PM2.5 composition and source factors in Santiago, Chile
Karla Yohannessen
Epidemiological research to support obesity preventive policies in Chile
Cristobal Cuadrado
WHO WANTS TO BE AN EPIDEMIOLOGIST GAME SHOW  Nicollet BC
Host: Ian Shrier
Judges:
Jay Kaufman
Sonja Swanson
Katherine Keyes

12:00pm - 1:00pm  SPC CAREER PANEL  Nicollet D1
Panelists:
Anne-Marie Jukic
Kathryn Rough
Pia Mauro
Arijit Nandi
CAREER PATHWAYS FOR MASTER'S-LEVEL EPIDEMIOLOGISTS  Nicollet D3
(Sponsored by Membership Committee)
Chairs: Erin Bowles and Rachel Ross
Master's-level career at an academic medical center
Janis Breeze
Master's-level career at the VA
Tess Gilbert
Master's-level career at an integrated healthcare system
Lisa Moy
Master's-level career at a consulting company
Elizabeth Best

1:00pm - 2:00pm  SER Business Meeting  - All Members Welcome  Nicollet D2

2:15pm - 3:45pm  SYMPOSIA 2  Nicollet A
TRIANGULATION OF CAUSAL EFFECT ESTIMATES  Recording
Chair: Jeremy Labrecque
Using counterfactuals to formalize triangulation
Jeremy Labrecque

Using triangulation to explore causal effects of maternal exposures on offspring outcomes
Debbie Lawlor

Regression discontinuity and inverse probability weighting methods to estimate causal effects in HIV epidemiology
Catherine Oldenburg

Triangulation in Alzheimer’s disease and dementia research
Maria Glymour

2:15pm - 3:45pm
GENETIC EPIDEMIOLOGY IN THE CAUSAL ERA: HOW DO GENES AFFECT THE HEALTH OF POPULATIONS AND HOW DO WE KNOW?
Chair: Jay Kaufman and Stephanie London

Genetic epidemiology as an art of the possible: design and interpretation of genetic association studies
Peter Kraft

How studying racially/ethnically diverse populations informs causal inference.
Christy Avery

Polygenic risk scores: prediction without causality
John Witte

Studying biological mechanisms of genetic susceptibility using causal reasoning
Brandon Pierce

Discussant
Stephanie London

2:15pm - 3:45pm
FUTURE OF EPIDEMIOLOGY: EMERGING TRENDS AND PERSPECTIVES
Chair: Andrew Olshan and Brooke Anderson

Future of Epidemiology: What is the future of observational epidemiology?
Kirsten Bibbins-Domingo

Future of Epidemiology: Systems modeling
Magdalena Cerda

Future of epidemiology: Climate epidemiology
Brooke Anderson

Future of Epidemiology: An outlook on measurement and methods for studying social determinants
Allison Aiello

Art Reingold

2:15pm - 3:45pm
OPEN EPIDEMIOLOGY, DATA TRANSPARENCY AND REPRODUCIBILITY: AN EGG THAT CAN’T BE UNBROKEN
Chair: Neal Goldstein

Open data: Ideology meets reality
Timothy Lash

Overcoming obstacles for data sharing within epidemiological research: Hey, it’s my data!
Tonya White

A pragmatic approach for reproducible research with sensitive data
Bryan Shepherd

Using spatiotemporal models to generate synthetic data for public use
Harrison Quick

The way forward for epidemiology
Tyler VanderWeele

2:15pm - 3:45pm
BEYOND 'IS RACE A CAUSE?' - BRINGING CRITICAL RACE THEORY INTO EPIDEMIOLOGY
Chair: John Pamplin II and Zinzi Bailey

If race is not biology, What is it?: Racialization, social constructs and epidemiology
Chandra Ford

The potential of critical race theory in epidemiology: Using historical imagination to construct counterfactual racial formation and dynamics
Zinzi Bailey
Embodying racism: Empirical evidence from the United States and Brazil
Sharrelle Barber
Discussant
John Pamplin II

2:15pm - 3:45pm

SPOTLIGHT ON AGING IN POSTMENOPAUSAL WOMEN: TWENTY-FIVE YEARS OF RESEARCH IN THE WOMEN'S HEALTH INITIATIVE (WHI)
Chair: Hailey Banack
Leveraging old data for new insight into the obesity-cardiometabolic health relationship
Andrew Odegaard
Diving deeper into racial disparities: unique opportunities in WHI
Wendy Barrington
Using intensive longitudinal measures of body movement to study the link between sedentary behaviors and incident CVD, diabetes and mortality
John Bellettiere
Can small bugs create big problems? Understanding the relationship between the microbiome and aging in postmenopausal women
Hailey Banack
Discussant
JoAnn Manson
Discussant
Jean Wactawski-Wende

2:15pm - 3:45pm

IEPIDEMIOLOGY: INNOVATIVE EXPOSURE AND OUTCOME ASSESSMENT USING ADVANCED TECHNOLOGIES
Chairs: Keewan Kim and Carrie Nobles
Leveraging data collected using a digital mobile app to improve women’s health: the Ovia Health experience
Danielle Bradley
HealthWatch 360: Mobile app for population and interventional nutrition
Christina Troutner
A new tool for epidemiological research: MyExposome silicone wristbands
Marc Epstein

3:45pm - 4:15pm
Break and Poster Viewing
Exhibit Hall

4:15pm - 5:45pm

THEORY AND PRACTICE
Chairs: Eleanor Murray and Penelope Howards
Toward a clearer definition of selection bias
Haidong Lu
Bias from incomplete case ascertainment in studies examining the transition from pediatric to adult-centered cardiac care in young adults with congenital heart disease: Results from the Colorado Congenital Heart Disease (COCHD) surveillance system
Lindsey M. Duca
Simple sensitivity analysis for selection bias
Louisa H. Smith
An inverse probability weighting approach to correct for left truncation
Paul N. Zivich
An interval estimation approach to selection bias in observational studies
Matthew Tudball

4:15pm - 5:45pm

CARDIOVASCULAR DISEASE EPIDEMIOLOGY: INNOVATIVE METHODS AND NOVEL RISK FACTORS
Chair: Ryan Demmer
Longitudinal population-level health-related fitness patterns in New York City public school children and adolescents 2006-2017
Emily D’Agostino
Plasma Trimethylamine-N-Oxide and impaired glucose regulation: Results from The Oral Infections Glucose Intolerance and Insulin Resistance Study (ORIGINS)
Sumith Roy
The impact of growth differentiation factor 15 (GDF-15) on coronary artery disease, breast and colorectal cancer risk: A Mendelian randomization study

Shiu Lun Au Yeung

Association of life's simple 7 with atrial fibrillation burden in the Atherosclerosis Risk in Communities (ARIC) Study

Wendy Wang

Cross-omics mediation in Epidemiology: Moving beyond biomarkers and into molecular mechanisms

Jessica Laine

Testosterone therapy and risk of venous thromboembolism among men without hypogonadism

Rob Walker

4:15pm - 5:45pm

IMPACT OF NOVEL RISK FACTORS ON WOMEN’S HEALTH ACROSS THE LIFECOURSE

Chairs: Dale Sandler and Alexandra White

Identifying environmental agent profiles associated with early menarche among U.S. adolescent girls: A machine learning approach

Sabine Oskar

Association of early abuse with plasma metabolomics in middle-aged women

Tianyi Huang

The modifying effect of social support on the association between neighborhood violence exposure and preterm birth

Timothy Ihongbe

A prospective ultrasound study of cigarette smoking and risk of uterine leiomyoma

Amelia K. Wesselink

Oral contraceptive use and incidence of early natural menopause

Christine R. Langton

The association between women's inter-birth intervals and cardiovascular mortality

Yiska Loewenberg Weisband

4:15pm - 5:45pm

SUBSTANCE USE EPIDEMIOLOGY WITH POLICY IMPLICATIONS

Chair: Pia Mauro

Opioid prescription use after vaginal delivery and subsequent persistent opioid use and misuse

Yanmin Zhu

Mortality among a population-based cohort of treated people with opioid use disorders following declaration of a public health emergency on opioid overdose in British Columbia Canada

Lindsay Pearce

The role of drugs in alcohol overdose: A latent class analysis among patients in residential addiction treatment in Michigan 2014-2016

Rachel E. Gicquelais

Do tobacco taxes affect coronary heart disease mortality rates differentially among black compared to white Americans?

Gregory H. Cohen

Impact of state policy on opioid prescribing after common surgical procedures

Thomas P. Ahern

Understanding the effect of syringe service programs on neighborhood crime complaint rates in New York City

Michelle L. Nolan

4:15pm - 5:45pm

NUTRITION AND OBESITY

Chair: Dianne Neumark-Sztainer

The roles of maternal comorbidities and cesarean birth in the association between prepregnancy body mass index and severe maternal morbidity

Stephanie A. Leonard

Association of maternal vegetarian diets with neonatal anthropometry in the NICHD Fetal Growth Study

Samrawit F. Yisahak

Caffeinated beverage intake and serum caffeine metabolites and risk of pregnancy loss

Alexandra C. Purdue-Smithe

Examining disparities in food accessibility among households in Columbus Ohio: An agent-based model

Ayaz Hyder
Disordered eating behaviors and 15-year trajectories in body mass index: Findings from Project EAT
Cynthia Yoon

History of childhood maltreatment and obesogenic behaviors in early adulthood
Alison Cammack

**OCCUPATIONAL EPIDEMIOLOGY**

4:15pm - 5:45pm  
**Chair: John Beard**  
Lakeshore A

Mortality among oil spill response and clean-up workers 1-6 years following the Deepwater Horizon Disaster
Lydia Feinstein

Lung function in oil spill responders 4-6 years after the Deepwater Horizon disaster
Kaitlyn B. Gam

Chronic obstructive pulmonary disease mortality: The Diesel Exhaust in Miners Study (DEMS)
Jacqueline Ferguson

Health effects of silica in the setting of mixed dust exposures in taconite mining
Nnaemeka U. Odo

Occupational pesticide use and risk of renal cell carcinoma in the Agricultural Health Study
Gabriella Andreotti

Maternal occupational oil mist exposure and birth defects - United States 1997-2011
Miriam Siegel

**SEX DIFFERENCES IN EPIDEMIOLOGY**

4:15pm - 5:45pm  
**Chair: Stephen Gilman**  
Lakeshore B

Ambient air pollution during preconception and peri-implantation and odds of male versus female live birth
Carrie Nobles

The impact of household socioeconomic changes during the Great Recession on children's biomarkers
Erica Reinhard

Considering race gender disability and the discipline gap
Karishma Furtado

Workplace gender composition and treatment for depression among blue-collar workers in the U.S. aluminum industry
Holly Elser

Sex steroid hormones and asthma in a nationwide study of US adults
Yueh-Ying Han

The effect of neighborhood perception on the divergence between chronological and DNA methylation age
Tarek M. Zikry

**Friday, June 21, 2019**

7:00am - 8:00am  
Continental Breakfast  
Exhibit Hall

7:30am - 1:15pm  
Registration

8:00am - 9:30am  
**PLENARY SESSION 3**  
Nicollet ABC

**Session Chair: Martha Werler**

Rothman Career Accomplishment Winner
Sherman James

“My African American Journey as an Epidemiologist”
Brian MacMahon Early Career Award Winner
Lauren McCullough

“In our backyard: building a career addressing disparities in breast cancer mortality”
Carol J. Hogue Mid-Career Award
Allison Aiello

“Testing the limits of mitigation measures for an influenza pandemic”
Noel Weiss and Tom Koepsell Excellence in Education Winner
Jill Norris

Page 15 of 18
9:30am - 10:00am  Break and Poster Viewing  Exhibit Hall

SYMPOSIA 3

10:00am - 11:30am  THE BADDEST OF THE BAD: RANKING THE MOST PERNICIOUS BIASES FACING OBSERVATIONAL STUDIES
Chairs: Catherine Lesko and Matthew Fox
Misalignment of person-time (inappropriate time 0, immortal person-time, etc.)
Robert Platt
Residual confounding or unmeasured confounders
Maria Glymour
Information bias
Matthew Fox
Missing data
Jessie Edwards
Model misspecification
Ashley Naimi
Selection bias
Chanelle Howe
Lack of generalizability
Catherine Lesko
Moderator
Jay Kaufman

10:00am - 11:30am  SAVING LIVES AS AN OFF-TARGET EFFECT: THE IMPACT OF ECONOMIC AND SOCIAL POLICIES ON POPULATION HEALTH
Chairs: Anjum Hajat and Steve Mooney
Effects of minimum wage increases on health and health behavior in working-age-adults
James Buszkiewicz
Health impacts of an unconditional prenatal cash transfer in the Canadian province of Manitoba
Nathan C. Nickel
Age differences in the effects of medical and recreational marijuana laws across the US
Plia M. Mauro
Local policy and firearm violence: A quasi-experimental study of the Operation Peacemaker Fellowship in Richmond, California
Ellicott Matthay
Discussant
Arjumand Siddiqi

10:00am - 11:30am  FAMILY MATTERS: USING FAMILY DESIGNS TO CONTROL CONFOUNDING IN OBSERVATIONAL STUDIES
Chairs: Mollie Wood and Katherine Keyes
The Anna Karenina Principle in family designs
Mollie Wood
Paternal medication use as a negative control exposure for pregnancy drug safety studies
Jackie Cohen
Introducing or amplifying bias by using sibling controls: a cautionary note
Thomas Frisell
On subject of methods concerns in twin designs
Matt McGue
Discussant
Katherine Keyes

10:00am - 11:30am  PrEPIDEMIOLOGY: INNOVATIONS IN METHODS FOR BIOMEDICAL HIV-PREVENTION RESEARCH
Chair: Julia Marcus
PrEP implementation: challenges and opportunities
Julie Marcus
Integrating electronic health record data to identify potential PrEP candidates in U.S. primary care settings
Douglas Krakower
Super learning vs. traditional approaches for targeting PrEP in rural East Africa
Laura Balzer

Innovations and opportunities in modeling HIV PrEP: network-based targeting, co-circulating STIs, racial and geographic disparities, and long-acting formulations
Samuel Jenness

Bridging clinical trials data to estimate public health impact for novel PrEP delivery methods
David Glidden

10:00am - 11:30am
POPULATION-BASED INTER-GENERATIONAL STUDIES
Chair: Enrique Schisterman
Inter-generational effects of maternal dietary and lifestyle behaviors on reproductive health of the offspring
Sunni Mumford
Multi-generational association between smoking during pregnancy and ADHD
Gyeyoon Yim
Methodological considerations and challenges in the analysis of population-based inter-generational studies
Sebastien Haneuse

10:00am - 11:30am
NOVEL AND INNOVATIVE MEASURES OF FETAL GROWTH AND DEVELOPMENT
Chair: Anne Marie-Jukic
Novel tools for measuring fetal and placental growth: 3D ultrasound as validated by MRI measurements
Anne Eskild
What to measure? Fetal growth and fetal growth velocity in relation to preterm delivery, preeclampsia and birthweight
Katherine Grantz
Analyzing fetal growth data with Individualized Growth Assessment (IGA): A more accurate and sensitive method for detecting growth restriction
Russell Deter
Why stop at birth? Building ethnically-diverse standards for fetal plus infant growth
Jason Gardosi

10:00am - 11:30am
IS IT MY BRAIN OR MY SENSES? MEASURING AND INTERPRETING COGNITIVE FUNCTIONS IN THE CONTEXT OF SENSORY DEFICIT
Chairs: Alison Abraham and Bonnie Swenor
Do I really need to worry about this and why? Understanding the relationship between sensory impairment and cognitive outcomes
Frank Lin
Apples and oranges. Inconsistencies in assessing cognitive functioning in individuals with sensory impairment
Bonnie Swenor
Who gets tested? Selection issues and missing data in cognitive function testing in individuals with sensory impairment
Jennifer Deal
What am I measuring? Disentangling cognitive status from sensory impairment
Alden Gross
The horizon: how to get better at assessing cognitive function in individuals with sensory impairment
Walter Wittich

11:30am - 12:00pm
Break

PROFESSIONAL DEVELOPMENT SESSIONS

12:00pm - 1:00pm
HOW TO FIND A POSTDOC
Chair: Maria Glymour
Panelists:
Maria Glymour
Enrique Schisterman
Matt Kiang
Sharrelle Barber
12:00pm - 1:00pm

ASK ANYTHING
Chair: Chantel Martin and Whitney Robinson
Panelists:
Dylan Galos
Michael Oakes
M. Kumi Smith
Rachel Widome

12:00pm - 1:00pm

DIVERSITY AND INCLUSION
Chair: Martha Werler
Panelists:
Salma Abdalla
Francelyne Jean-Baptiste
Elisa Jean-Baptiste
Charles Branas

12:00pm - 1:00pm

DISSERTATION SURVIVAL SKILLS
Chair: Katherine Keyes
Panelists:
John Jackson
Chanelle Howe
Katherine Keyes
Ashley Naimi
Holly Elser

1:00pm

Meeting Adjourns

See you in Boston - June 16-19, 2020