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EPIDEMIOLOGY AND BIOSTATISTICS







FACULTY OF HEALTH School of Public Health



Department of Epidemiology, Biostatistics and Occupational Health







Tuesday, June 1, 2021

Keynote # 1

Modelling & Communicating Risk in the Rapidly Changing Environment of the Global Pandemic

11:00am – 12:15pm EST

Exhibits, Posters, On-Demand Presentations, Networking Lounge

12:15pm - 1:00pm EST

Concurrent Session A

1:00pm - 2:15pm EST *see page 8

Exhibits, Posters, On-Demand Presentations, Networking Lounge

2:15pm - 3:00pm EST

Plenary Panel # 1

The Hidden Impacts of COVID-19
3:00pm – 4:15pm EST

Wednesday, June 2, 2021

Plenary # 2

State-of-the Art Contributions of Data Science in a Rapidly Changing World 11:00am – 12:15pm EST

Exhibits, Posters, On-Demand Presentations, Networking Lounge

12:15pm - 1:00pm EST

Concurrent Session B

1:00pm - 2:15pm EST *see page 9

Exhibits, Posters, On-Demand Presentations, Networking Lounge

2:15pm – 3:00pm EST

Keynote # 2

Ready for a Revolution: The Changing Role of Statistics in Data Science and Big Data Initiatives 3:00pm - 4:00pm EST

Thursday, June 3, 2021

CSEB Student Event:

Speed Mentoring Session 11:00am - 12:00pm EST

Post-Conference Workshop

Artificial Intelligence and Machine Learning for Precision Public Health 1:00pm - 3:00pm EST

Post-Conference Workshop

Understanding Propensity Score
Matching
1:00pm - 3:00pm EST

Post-Conference Workshop

SAS and Open-Source Workshop 1:00pm - 4:00pm EST Modelling & Communicating Risk in the Rapidly Changing Environment of the Global Pandemic

Tuesday, June 1, 2021 11:00am to 12:15pm EST

Presented by **Dr. David Fisman**, Professor, Division of Epidemiology, Dalla Lana School of Public Health

Moderated by **Dr. Saverio Stranges**, Schulich School of Medicine and Dentistry, Western University











The Hidden Impacts of COVID-19

Tuesday, June 1, 2021 3:00pm to 4:15pm EST

Presented by:

Dr. Tracie Afifi, Faculty of Medicine, University of Manitoba

Dr. Laura Cowen, Mathematics and Statistics, University of Victoria

Dr. Arjumand Saddiqi, Dalla Lana School of Public Health



Chair: **Dr. Sue Kirkland**, Faculty of Medicine, Dalhousie University

Discussant: **Dr. Saverio Stranges**, Bloomberg School of Public Health, Johns

Hopkins

State of the Art Contributions of Data Science in a Rapidly Changing World

Wednesday, June 2, 2021 11:00am to 12:15pm EST

Presented by:

Dr. Greta Bauer, Schulich School of Medicine and Dentistry, Western University

Dr. Joon Lee, Cumming School of Medicine, University of Calgary

Dr. Ruth Etzioni, Public Health Sciences Division, Fred Hutch Cancer Centre

Chair: **Dr. Dan Lizotte**, Schulich School of Medicine and Dentistry, Western University

Discussant: **Dr. Zahid Butt**, School of Public Health and Health Systems, University of Waterloo











Ready for a Revolution: The Changing Role of Statistics in Data Science and Big Data Initiatives

Wednesday, June 2, 2021 3:00pm to 4:00pm EST

Presented by **Dr. Sherri Rose**, Centre for Health Policy and Centre for Primary Care and Outcomes Research, Stanford University



Moderated by Dr. Lisa Lix, Faculty of Medicine, University of Manitoba



CSEB STUDENT EVENT: SPEED MENTORING SESSION

Join us on **June 3, 2021 11-12 EST**

Connect with early-career individuals who are forging their own paths using epidemiology and biostatistics

MENTORS: NICOLE SCHOER, SARAH LABERGE, REBECCA RODRIGUES, HANNAH CHUNG, RHIANNON ROBERTS, WENSHAN LI, KLAJDI PUKA, ADAM COLE, RYAN NG, TIFFANY FITZPATRICK, AND SAMANTHA YAMMINE

Concurrent Session A

Tuesday June 1, 2021 (1:00pm to 2:15pm)									
A1 Aging and Chronic Disease	Outcomes reported in randomized clinical trials of depression in geriatric patients: a methodological review Myanca Rodrigues	Functional Social Isolation Mediates the Association Between Depressive Symptoms and Executive Function in the Canadian Longitudinal Study on Aging Anita Iacon	What makes people live long and age well?: Characterizing older adults' perspectives on healthy aging in the Canadian Longitudinal Study on Aging Susan Kirkland	The Association Between Diabetes Type, Age of Onset, and Age at Natural Menopause: A Retrospective cohort study using the Canadian Longitudinal Study on Aging Vrati Mehra	Early life adversity and obesity in older adulthood: A longitudinal study using the Canadian Longitudinal Study on Aging (CLSA) Vanessa De Rubeis				
A2 Maternal and child health	Propensity score analysis for a semi-continuous exposure variable: a study of gestational alcohol exposure and childhood cognition Tugba Akkaya-Hocagil	The Proportion of Preterm Birth Attributable to Modifiable Risk Factors: A Retrospective Cohort Study in Nova Scotia, 2005- 2019 Adelaide von Kursell	Gestational diabetes and later childhood cancer Sophie Marcoux	Examining the Association Between Early Maternal Menarche and Preterm Birth: A Prospective Cohort Study Asvini Keethakumar	Adverse childhood experiences and incidence of migraine in adolescence: a prospective analysis using the National Longitudinal Survey of Children and Youth Nicole G. Hammond				
A3 Cancer	Trends in the Incidence of Cancer among Adolescent and Young Adults in Alberta, 1988 to 2017 Andrew Harper	Predicted impact of the COVID-19 pandemic on cancer care and long-term mortality in Quebec Talía Malagón	Central Nervous System (CNS) tumour incidence rates for different age groups and sexes among Canadian residents Farzana Yasmin	The Alberta Moving Beyond Breast Cancer (AMBER) Cohort Study: Baseline Description of the Complete Cohort of 1,528 Breast Cancer Patients Charlotte Ryder-Burbidge	Occupational solar ultraviolet radiation and breast cancer risk in Canada Sareena McDonald				
A4 Biostatistics	Active vs. passive imputation of missing maternal pre- pregnancy body mass index values among Nova Scotian women Maggie Brown	Risk of Major Osteoporotic Fracture: A Comparison between Multi-State and Cox Proportional Hazard Models Shamsia Sobhan	Does group-based trajectory modeling estimate spurious trajectories? Miceline Mesidor	Analysis of Misclassified Categorical Response via Incomplete Surrogate Variables and Likelihood Method Zheng Yu	A Joint modeling approach for binary repeated measurement of depression and time-to-dementia in a population-based study Rasel Kabir				
A5 Epi methods	Quantifying the mitigating influence of urban tree configuration on heat related mortality Beau Ahrens	Comparing approaches to estimating area-based prevalence and classification of child mental disorder and service contacts: administrative health data versus survey data Laura Duncan	Machine learning methods for predicting postpartum depression: A scoping review Kiran Saqib	What can we learn from missing data? Examining nonreporting patterns of height, weight, and BMI among Canadian youth Amanda Doggett	Validity of an Algorithm to Identify Cardiovascular Deaths from Administrative Health Records: A Multi- Database Population-Based Cohort Study Lisa Lix				
A6 Infectious diseases	Is Hodgkin lymphoma associated with hepatitis B and C viruses? A systematic review and meta-analysis Callum Mullen	Spatiotemporal trends and socioecological factors associated with Lyme disease incidence in eastern Ontario, Canada, 2010-2017. Andreea Slatculescu	Determinants of Arbovirus Vector Density as a Measure of Transmission Risk in Regions of Recent Zika Virus Introduction in the Americas Benoit Talbot	Transmission Reduction And Prevention with HPV vaccination (TRAP-HPV) study: preliminary analysis of HPV incidence and transmission Aaron MacCosham	Male circumcision and the prevalence, incidence, and clearance of human papillomavirus infections in males and females: preliminary results from a systematic review and meta-analysis Samantha Shapiro				

Concurrent Session B

Wednesday, June 2, 2021 (1:00pm to 2:15pm)								
B1 COVID-19	COVID-19 leads to higher mortality regardless of other risk factors: a population-based retrospective cohort study Anna Kone Pefoyo	What factors influence the intention to use COVID- 19 vaccine: a scoping review Bara' AlShurman	The Impact of Congregate Living on Positive COVID- 19 Tests Among Adults with Intellectual and Developmental Disability in Ontario Rebecca Hansford	Pan-Canadian survey on the impact of the COVID-19 pandemic on cervical cancer screening and management Mariam El-Zein	Association between education level and COVID-19 incidence at the neighbourhood level in the city of Toronto Nushrat Nazia			
B2 Mental health/addiction	Taking the High Road: Traffic Violations Among Emerging Adults Who Use Cannabis Tiana Ciccarelli	Life satisfaction and mental health service use: A prospective observational study Camilla Michalski	Montal Disorders Risk Prodiction using Objectively	Trends in the Prevalence of Diagnosed Mood or Anxiety Disorders Among Migrant Groups in Ontario, 1995-2015: A Population-based, Repeated Cross-sectional Study Jordan Edwards	Climate change and mental disorders in low and middle-income countries: A scoping review Isobel Sharpe			
B3 Social Inequities/determinants	Low social support is associated with low executive function in women but not in men: Results from the Canadian Longitudinal Study on Aging Emily Rutter	Who Sleeps Well in Canada? The Social Determinants of Sleep Health Among Middle-Aged and Older Adults in the Canadian Longitudinal Study on Aging Rebecca Rodrigues	Estimating the inequitable burden of COVID-19 exposure at work across race/ethnicity: The Occupational Exposure to COVID-19 Risk Tool Brendan Smith	Preventable Emergency Department Visits in Canada: An Analysis of the 2015-2016 Canadian Community Health Survey Tammy Lau	Intersectional Social Inequalities and Cognitive Functioning among Community-Dwelling Older Adults in England: A Decomposition Analysis of the Mediating Role of Loneliness Chantel Walwyn			
B4 Health of marginalized populations	Incidence and Trends of Limb Amputation in First Nations and General Population in Saskatchewan, 2006-2019 Samuel Kwaku Essien	Sense of Belonging and its relationship with Family Functioning among Syrian Refugee parents in Toronto Maria Boulos	Prevalence and Characteristics of Indigenous Populations in Canada without a Regular Medical Doctor Rama Eloulabi	Vaccine Confidence and Hesitancy in Métis Nation of Ontario (MNO) Citizens Sarah Edwards	Variations in Perceived Stress among Syrian Refugee Parents Resettled through Different Sponsorship Programs in Canada Yasma Ali-Hassan			
B5 Pharmaco-epidemiology and pharmaco-economics	Derivation and validation of predictors for oral anticoagulant-related adverse events in seniors transitioning from hospital to home Harsukh Benipal	Determining an optimal adherence threshold for classifying adherent and non-adherent adult asthma patients in an administrative health database Michael Asamoah-Boaheng	Association between medication adherence and risk of COPD diagnosis in patients with asthma: A 20-year retrospective cohort study in Canada Michael Asamoah-Boaheng	Analysis of health care costs over a one-year period following anticoagulant therapy among Ontario patients diagnosed with atrial fibrillation Michael Situ	Impact of polypharmacy on health service utilization and death of persons with cancer, accounting for MMB Tamara Dean			
B6 Mental health/addiction 2: children and youth	Mental-Health Service Contacts in Children and Youth with Identified Mental Health Care Needs Using Linked Survey and Health Administrative Data. Jordan Edwards	Measurement Invariance of the Flourishing Scale among a Large Sample of Canadian Adolescents Isabella Romano	Social support and coping strategies in the relationship between childhood maltreatment and major depressive disorder: A causal mediation analysis of a population-based longitudinal cohort Muzi Li	Self-esteem and mental health in young people with epilepsy: A longitudinal mediation analysis via structural equation modeling Peter Cahill	Lost in Transition: Health Service Utilization of IWK Mental Health & Addictions Patients on Transition to Adult Services Cole Bowerman			