

WEDNESDAY, SEPTEMBER 12, 2018

10:15AM to 11:45AM

CONCURRENT SESSION A

A1: ADVANCED ANALYTICS

KINNEAR CENTRE 303

A1.1

Methodological issues for measuring pharmacotherapy treatment and its calibration with patient outcomes using real-world data

Presented by: **Guanmin Chen**

A1.2

Combining Artificial Neural Networks, Routine Health Records and Suicide Risk Estimation

Presented by: **Marcos del Pozo Banos**

A1.3

Longitudinal trajectories of asthma exacerbations from infancy to school age.

Presented by: **Matea Deliu**

A1.4

Incidence of First Abortions: Integration of Administrative and Survey Data within a Joint Cohort Life Table Model

Presented by: **Peter Dutey- Magni**

A1.5

Life expectancy and health-adjusted life expectancy are decreased in people living with inflammatory bowel disease: a population-based matched cohort study

Presented by: **Ellen Kuenzig**

10:15AM to 11:45AM

CONCURRENT SESSION A

A2: ANALYTICAL APPROACHES TO DISTRIBUTED
DATA

KINNEAR CENTRE 305

A2.1

Harmonization of data from cohort studies— potential challenges and opportunities

Presented by: **Kamala Adhikari Dahal**

A2.2

Public Cloud: The Future of Record Linkage?

Presented by: **Adrian Brown**

A2.3

International meta-analysis of 684,660 men with vasectomies: a study utilising the International Population Data Linkage Network

Presented by: **James Boyd**

A2.4

If You Link It They Will Come, If They Like It They Will Stay: The Utah Population Database as a Model for Creating a Confidential Linked Population Health Research Registry

Presented by: **Ken Smith**

A2.5

Design and operation of a distributed health data network

Presented by: **Jeffrey Brown**

A2.6

Impact of clinical subtypes of preterm birth on child health and development

Presented by: **Amy Metcalfe**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

10:15AM to 11:45AM

CONCURRENT SESSION A

A3: PUBLIC ENGAGEMENT

KINNEAR CENTRE 206

A3.1

Whose Benefit is it Anyway? Public Expectations of Public Benefits from Health Informatics Research

Presented by: **Mhairi Aitken**

A3.2

Public engagement with cohort participants in Scotland and India: How do participants want to shape mental health research?

Presented by: **Dorota Chapko**

A3.3

Empathic Cultural Mapping: Little data, big data, knowledge transfer and exchange

Presented by: **Suzanne Goopy**

A3.4

Exploring public attitudes towards data sharing and linkage in health and social care

Presented by: **Mary Tully**

A3.5

Policy advocacy to enable administrative data linking: building a civil society coalition

Presented by: **Michael Lenczner**

A3.6

Power of Linked Administrative Data

Presented by: **Hesam Izakian**

10:15AM to 11:45AM

CONCURRENT SESSION A

A4: DELIVERING AND MEASURING IMPACT

KINNEAR CENTRE 308

A4.1

Using Administrative Data to Evaluate the Effectiveness of Home Visiting Programs for Improving the Well-Being of First Nations Children and Parents

Presented by: **Mariette Chartier**

A4.2

Linking midwives and hospital morbidity data to investigate the effect of interpregnancy interval on gestational diabetes: a 35-year cohort study in Western Australia

Presented by: **Amanuel Gebremedhin**

A4.3

What happened to my patient after I dropped them off at the ED? Linking Welsh ambulance to secondary care and mortality data

Presented by: **Gareth John**

A4.4

Data linkage to build detailed return-to-work trajectories for work disability research

Presented by: **Esther Maas**

A4.5

Using linked data to evaluate enhanced primary care policies for chronic diseases using stroke as a case study

Presented by: **Nadine Andrew**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

10:15AM to 11:45AM
A5: CAPACITY BUILDING

CONCURRENT SESSION A
KINNENAR CENTRE 210

A5.1

Population Data Science: The science of data about people

Presented by: Kim McGrail

A5.2

Supporting Applied, Multidisciplinary Analytic Skills: An Innovative Training Platform for Researcher Capacity Building

Presented by: Ann Greenwood

A5.3

Creating a Community of Practice to Support Data Linkage Across Government Agencies

Presented by: Amy Hawn Nelson

A5.4

Lessons from the past: A window on the future

Presented by: Alan Katz

A5.5

Needs and priority areas for building capacity for working with linked data in the Australian pharmacoepidemiology workforce

Presented by: Derrick Lopez

A5.6

Development of a Concept Dictionary to Standardize Definitions and Classifications While Working With a Common Repository of Linked Administrative Data

Presented by: Erin Macdonald

10:15AM to 11:45AM

A6: LINKING TO EMERGING DATA TYPES

CONCURRENT SESSION A

KINNENAR CENTRE 301

A6.1

When the Census Comes Marching In: Challenges and Successes in Linking Individual-Level Census Records to the Utah Population Database

Presented by: Ken Smith

A6.2

Linkage of whole genome sequencing with administrative health, and electronic medical record data for the study of autism spectrum disorder: Feasibility, Opportunities and Challenges

Presented by: Jennifer Brooks

A6.3

Lessons learned: Linking patient-reported outcomes data with administrative databases

Presented by: Laura Davis

A6.4

Training Coding Specialists for the Future: Methods and Materials for the Beta Version of ICD-11

Presented by: Catherine Eastwood

A6.5

A comparison of methodologies: sibling identification using a relational versus a graph-based approach

Presented by: James Farrow

A6.6

Designing and Implementing a Privacy Preserving Record Linkage Protocol

Presented by: Tom Gee

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

10:15AM to 11:45AM

CONCURRENT SESSION A

A7: PRIVACY, REGULATION AND GOVERNANCE

MAX BELL 251

A7.1

Privacy, Ethics and Information Sharing of New Zealand's Integrated Data Infrastructure (IDI): A discussion of the issues, challenges and opportunities

Presented by: June Atkinson

A7.2

Enhancing Environmental data Resources in Cohort Studies: ALSPAC exemplar (ERICA)

Presented by: Andy Boyd

A7.3

Progress with Access to Cross-jurisdictional Linked Data in Australia

Presented by: Felicity Flack

A7.4

Towards an ethically-founded framework for the use of mobile phone CDRs in health research

Presented by: Kerina Jones

A7.5

An effective privacy enhanced interface to support record linkage decisions

Presented by: Hye-Chung Kum

A7.6

Governance Challenges to Promoting Data Readiness and Data Linkage for Not-for-Profit Organizational Service Data

Presented by: Jason Lau

10:15AM to 11:45AM

CONCURRENT SESSION A

A8: SOCIAL DETERMINANT OF HEALTH AND
CROSS-SECTORAL DATA LINKAGE

KINNEAR CENTRE 204

A8.1

Data linkage to national Australian health insurance data to investigate exposure to environmental hazards: the example of residential asbestos

Presented by: Phil Anderson

A8.2

Clinically driven analysis reveals gene-socioeconomic status interaction influencing periodontal disease in the electronic health record-linked Generation Scotland: Scottish Family Health Study (GS: SFHS) cohort.

Presented by: Mairead L. Bermingham

A8.3

Self-harm following release from incarceration: Patterns and measurement issues

Presented by: Rohan Borschmann

A8.4

The Mortality After Release from Incarceration Consortium (MARIC) study: Strengths of international data linkage

Presented by: Rohan Borschmann

A8.5

No Strings Attached: The Impact of an Unconditional Prenatal Income Supplement on First Nations Birth and Early Childhood Outcomes

Presented by: Marni Brownell

A8.6

The Overlap Between the Child Welfare and Youth Justice Systems in Manitoba, Canada

Presented by: Marni Brownell

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

10:15AM to 11:45AM

CONCURRENT SESSION A

A9: DATA AND LINKAGE QUALITY (1)

MAX BELL 252

A9.1

Analysis of factors associated with changing general practice in the first 14 years of life in Wales using linked cohort and primary care records: implications for using primary care databanks for life course research

Presented by: Ashley Akbari

A9.2

Developing a Primary Care EMR-based Frailty Definition using Machine Learning

Presented by: Sylvia Aponte-Hao

A9.3

The Mysterious Case of the Delayed Twin: using research data to resolve linkage questions.

Presented by: Daniel Avery

A9.4

To Err is Human, all hail your Robot Overseer: automated testing as part of a robust data delivery platform.

Presented by: Daniel Avery

A9.5

Linkage Quality Assessment for Anonymously linked Administrative Data.

Presented by: Hitesh Bhatt

A9.6

Linking Emergency Medical Services and Health System Data: Optimal Strategy and Bias Mitigation

Presented by: Ian Blanchard

10:15AM to 11:45AM

CONCURRENT SESSION A

A10: DATA AND LINKAGE QUALITY (2)

MAX BELL 253

A10.1

Evaluation of interventions to improve inpatient hospital documentation within electronic health records: A Systematic Review

Presented by: Natalie Wiebe

A10.2

Validating Self-reported Chronic Conditions in Alberta's Tomorrow Project Cohort: Data Linkage to Administrative Healthcare Data

Presented by: Ming Ye

A10.3

Cross-validation of Drug Use Records in Two Pharmaceutical Databases: A Population-based Study of Alberta's Tomorrow Project Cohort

Presented by: Ming Ye

A10.4

Contact with mental health services after medically verified self-harm: A prospective data linkage study

Presented by: Jesse Young

A10.5

SAGE: supporting secondary data analysis and expediting knowledge mobilization with linked administrative, service delivery, and research data

Presented by: Yunqi Zhang

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

10:15AM to 11:45AM	CONCURRENT SESSION A
A11: IJDPS COLLABORATIVE WORKSHOP	KINNEAR CENTRE 201

A11

International Journal Population Data Science: development and future directions - with bubbly and bannock

Presented by: **Kerina Jones**

10:15AM to 11:45AM	CONCURRENT SESSION A
A12: STATISTICS CANADA WORKSHOP	KINNEAR CENTRE 208

A12

Integrating Social Data at Statistics Canada: Data linkage services to support research

Presented by: **Richard Trudeau, Shirley Bryan, Lisa Oliver and Claudia Sanmartin**

1:15PM TO 2:45PM	CONCURRENT SESSION B
B1: ADVANCED ANALYTICS	KINNEAR CENTRE 303

B1.1

A machine-learning approach to identify cerebral palsy cases using primary care database

Presented by: **Heng Fan**

B1.2

Swiftlink: a distributed, parallelised and scriptable linkage engine architecture for the 21st century

Presented by: **James Farrow**

B1.3

A Data Science Approach to Predictive Analytic Research and Knowledge Translation

Presented by: **Stacey Fisher**

B1.4

Finding Maternal Siblings in Birth Registration Data to form a Pregnancy Spine – Data Linkage & Graph Based Methods for Unknown Cluster Sizes

Presenting by: **Rachel Shipsey**

B1.5

Developing a new metric to capture continuity of primary care: The application of propensity score methods and threshold effects models using linked administrative data

Presented by: **Ninh Thi Ha**

B1.6

Ensemble-based Classification Models for Predicting Post-Operative Mortality Risk in Coronary Artery Disease

Presented by: **Anita Brobbey**

1:15PM TO 2:45PM

CONCURRENT SESSION B

B2: ANALYTICAL APPROACHES TO DISTRIBUTED DATA

KINNEAR CENTRE 305

B2.1

Validation of Acute Kidney Injury e-alert system in Wales

Presented by: **Gareth Davies**

B2.2

Further Development and Validation of the electronic Frailty Index using the Secure Anonymised Information Linkage Databank

Presented by: **Joe Hollinghurst**

B2.3

Trajectory of service use among young Albertans with complex needs

Presented by: **Hesam Izakian**

B2.4

Trends in systematic recording errors of blood pressure and association with outcomes in Canadian and UK primary care data: a retrospective observational study

Presented by: **Sumeet Kalia**

B2.5

Identification of Frailty using EMR and Admin data: A complex issue

Presented by: **Alan Katz**

B2.6

Medical Needs after Pediatric Traumatic Brain Injury: Probabilistic Linkage of State Claims Data with Trauma Center Data

Presented by: **Tellen Bennett**

1:15PM TO 2:45PM

CONCURRENT SESSION B

B3: PUBLIC ENGAGEMENT

KINNEAR CENTRE 204

B3.1

International Consensus Statement on Public Involvement and Engagement with Data-Intensive Health Research

Presented by: **Mhairi Aitken**

B3.2

Getting animated about routine data: co-producing a video and toolkit with young families

Presented by: **Fiona Lugg-Widger**

B3.3

Commercial use of health data in the dock – results of a public “trial”

Presented by: **Mary Tully**

B3.4

Priorities for future research: the community adding value to linked data research

Presented by: **Anne McKenzie**

B3.5

Data Byte: An Insight on Fetal Alcohol Spectrum Disorder and Educational Achievement

Presented by: **Carley Piatt**

B3.6

Public views and recommendations on the use of linked data for research: preliminary results from a public deliberation engagement

Presented by: **Jack Teng**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

1:15PM TO 2:45PM

CONCURRENT SESSION B

B4: DELIVERING AND MEASURING IMPACT

KINNEAR CENTRE 206

B4.1

Can Linked Electronic Medical Record and Administrative Data Help Us Identify Those Living With Frailty?

Presented by: **Sabrina Wong**

B4.2

Evaluating the impacts on health outcomes of Welsh Government funded schemes designed to improve the energy efficiency of the homes of low income households: A comparison of individual level and area based schemes.

Presented by: **Sian Morrison-Rees**

B4.3

Optimizing Impact in Fighting the Global HIV Epidemic

Presented by: **Derek Ritz**

B4.4

Using data to explore vulnerable women's utilization of maternity health care

Presented by: **Mahnoush Rostami**

B4.5

The Economic Impacts of ICD-9 to ICD-10 Health Indicator Coding System Transition in the Calgary Region

Presented by: **Shahreen Khair**

1:15PM TO 2:45PM

CONCURRENT SESSION B

B5: CAPACITY BUILDING

KINNEAR CENTRE 308

B5.1

Multi-province epidemiological research using administrative data in Canada: Challenges and opportunities

Presented by: **Amanda Butler**

B5.2

Pan-Canadian Real-World Health Data Network: Building a National Data Platform

Presented by: **Kim McGrail**

B5.3

Scalable Secure Privacy-Preserving Record Linkage (PPRL) Methods Using Cloud-based Infrastructure

Presented by: **Toan Ong**

B5.4

Visualising linked data using GIS: Western Australian Child Development Atlas

Presented by: **Scott Sims**

B5.5

Alberta's Data Mobilization Strategy: Leveraging Linked Data for Innovation

Presented by: **Larry Svenson**

B5.6

The Ontario Data Safe Haven: Bringing High Performance Computing to Population-wide Data Assets

Presented by: **J. Charles Victor**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

1:15PM TO 2:45PM

CONCURRENT SESSION B

B6: LINKING TO EMERGING DATA TYPES

MAX BELL 252

B6.1
Extending follow up of randomised clinical trials by linkage to routinely collected data – results of a scoping review of the published literature
Presented by: David Henry

B6.2
Using family physician Electronic Medical Record data to measure the pathways of cancer care
Presented by: Liisa Jaakkimainen

B6.3
Mortality attributable to poor dietary patterns in Canada: Evidence from the nationally-representative nutrition survey linked with health administrative data
Presented by: Mahsa Jessri

B6.4
Using natural language processing to extract structured epilepsy data from unstructured clinic letters
Presented by: Beata Fonferko-Shadrach

B6.5
A National Population-Based E-cohort of People with Psychosis (PsyCymru) Linkage of Phenotypical and Genetic Data to Routinely Collected Records
Presented by: Keith Lloyd

B6.6
Linking pharmacy dispensing data to other administrative health datasets to measure the compliance and effectiveness of RSV immunoprophylaxis
Presented by: Hannah Moore

1:15PM TO 2:45PM

CONCURRENT SESSION B

B7: PRIVACY, REGULATION AND GOVERNANCE

MAX BELL 251

B7.1
Through the legal maze: An Act Respecting Research
Presented by: Ted McDonald

B7.2
A Toolbox for Research – Population Data BC's tools for overcoming challenges in the data access process
Presented by: Melissa Medearis

B7.3
NHS Scotland Public Benefit and Privacy Panel (PBPP) – Does a Proportionate Governance Review Work?
Presented by: Carole Morris

B7.4
NHS Scotland Public Benefit and Privacy Panel (PBPP) – Much Ado about Governance 3 years on
Presented by: Carole Morris

B7.5
US Data Access and the Commission for Evidence-based Policymaking
Presented by: Amy O'Hara

B7.6
Evaluating hardening techniques against cryptanalysis attacks on Bloom filter encodings for record linkage
Presented by: Rainer Schnell

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

1:15PM TO 2:45PM

CONCURRENT SESSION B

B8: SOCIAL DETERMINANT OF HEALTH AND
CROSS-SECTORAL DATA LINKAGE (1)

KINNEAR CENTRE 301

B8.1

Cross-sector service use among youth and young adults involved in the Alberta provincial justice system

Presented by: **Xinjie Cui**

B8.2

Repeat pregnancy during adolescence and educational level in Brazil.

Presented by: **Kenneth Camargo**

B8.3

Childhood Mental Disorders and Subsequent Adverse Outcomes in Early Adulthood: A Population-Based Longitudinal Study

Presented by: **Mariette Chartier**

B8.4

Is Participation in Out-of-School Programs Linked to Students' Health, Educational and Social Outcomes?

Presented by: **Jennifer Enns**

B8.5

The Canadian Urban Environmental Health Research Consortium (CANUE): a national data linkage initiative

Presented by: **Dany Doiron**

B8.6

The effect of neighbourhood crime and deprivation on pregnancy outcomes. A quasi-experimental study using routine administrative records

Presented by: **Chris Dibben**

1:15PM TO 2:45PM

CONCURRENT SESSION B

B9: SOCIAL DETERMINANT OF HEALTH AND
CROSS-SECTORAL DATA LINKAGE (2)

KINNEAR CENTRE 201

B9.1

Provincial Data-linkage to Address Complex Policy Challenges

Presented by: **Jeremy Coad**

B9.2

Spatial epidemiology of premature mortality in Ontario, Canada

Presented by: **Emmalin Buajitti**

B9.3

Improving the Measurement of Health System Performance across the Rural-Urban Continuum

Presented by: **Laura Rosella**

B9.4

Measuring the impact of transition on children aging out of child protective services

Presented by: **Dan Chateau**

B9.5

Measuring social determinants of health and their impact on service use and medical complexity

Presented by: **Dan Chateau**

B9.6

Intermediate-linkage steps used to obtain longitudinal data (containing health service use, morbidity and mortality) for a large cohort of patients who are homeless that visited and were discharged from hospital in England.

Presented by: **Hannah Evans**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

1:15PM TO 2:45PM

CONCURRENT SESSION B

B10: APPLIED PROJECTS

KINNEAR CENTRE 208

B10.1

Early Childhood Respiratory Morbidity and Health Services Utilization in Children Born Preterm or Small and Large Gestational Age

Presented by: Jesus Serrano-Lomelin

B10.2

Use of linked electronic health records to evaluate cardiovascular risk prediction models in Ontario, Canada

Presented by: Atul Sivaswamy

B10.3

Identifying and Prioritizing Low Value Care in British Columbia Using Three Administrative Health Data Assets

Presented by: Lesley Soril

B10.4

Evaluation of the Western Australian population based data linkage Intellectual Disability Exploring Answers (IDEA) surveillance system

Presented by: Natalie Strobel

B10.5

Linking Provincial and Prospective Cohort Study Data to Estimate the Incidence and Healthcare Burden of Viral Gastroenteritis

Presented by: Gillian AM Tarr

B10.6

Use of the CANHEART 'big data' registry to conduct a large randomized registry clinical trial to improve lipid management in Ontario, Canada

Presented by: Jacob Udell

1:15PM TO 2:45PM

CONCURRENT SESSION B

B11: INTERNATIONAL COLLABORATIVE
WORKSHOP

KINNEAR CENTRE 210

B11

International Comparison of Approaches to Common Data Models for Comparative Effectiveness Research

Presented by: Adrian Levy

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

3:15PM TO 4:30PM

CONCURRENT SESSION C

C1: ADVANCED ANALYTICS

KINNEAR CENTRE 303

C1.1

Incidence, recurrence and predictors associated with recurrence of low birth weight in Northern Tanzania

Presented by: Michael Johnson Mahande

C1.2

Using Large Date to Present Uncertainty for Risk Prediction in the Era of Precision Medicine: The RESPECT Algorithm for Predicted Death at End-of-Life

Presented by: Sarah Spruin

C1.3

Learning Unsupervised Representations from Biomedical Text

Presented by: Christopher Meaney

C1.4

Using Biomedical Text as Data and Representation Learning for Identifying Patients with an Osteoarthritis Phenotype in the Electronic Medical Record

Presented by: Christopher Meaney

C1.5

Machine learning: how much does it improve the prediction of unplanned hospital admissions?

Presented by: Tyler Williamson

3:15PM TO 4:30PM

CONCURRENT SESSION C

C2: ANALYTICAL APPROACHES TO DISTRIBUTED DATA

MAX BELL 251

C2.1

Cognitive development Respiratory Tract Illness and Effects of eXposure (CORTEX) project: Combining high spatial resolution pollution measurements with individual level data, a methodological approach.

Presented by: Sarah Rodgers

C2.2

Enhancing description of hospital-conditions with ICD-11 cluster coding: Better codes for monitoring and prevention

Presented by: Danielle Southern

C2.3

Using Residential Anonymous Linking Fields to Identify Vulnerable Populations in Administrative Data

Presented by: Joe Hollinghurst

C2.4

Harmonising data from different sources to conduct research using linked survey and routine datasets

Presented by: Karen Tingay

C2.5

Distributed team health data science in risk of non-Vitamin K Oral Anticoagulant after Intracranial Haemorrhage

Presented by: Jiao Song

C2.6

Integrating population-wide laboratory testing data with physician audit-and-feedback reports to improve glycemic and cholesterol control among Ontarians with diabetes

Presented by: Michael Campitelli

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

3:15PM TO 4:30PM

CONCURRENT SESSION C

C3: PRIVACY, REGULATION AND GOVERNANCE

KINNEAR CENTRE 308

C3.1

First Nations Data Governance, Privacy, and the Importance of the OCAP® principles

Presented by: **Graham Mecredy**

C3.2

Cultural and institutional barriers among data stewards regarding data access for research

Presented by: **Jack Teng**

C3.3

Linking medical licensing examination scores with longitudinal physician practice data using a privacy preserving protocol

Presented by: **Niels Thakkar**

C3.4

A framework to facilitate interprovincial sharing of secondary health data in Canada

Presented by: **Robin Urquhart**

C3.5

Unconsented linkage between dormant trials and administrative data: practical and regulatory implications

Presented by: **Maximiliane Verfuenden**

C3.6

Principles and operational model for governing Diabetes Action Canada's data repository for patient-oriented research

Presented by: **Donald Willison**

3:15PM TO 4:30PM

CONCURRENT SESSION C

**C4: SOCIAL DETERMINANT OF HEALTH AND
CROSS-SECTORAL DATA LINKAGE (1)**

KINNEAR CENTRE 305

C4.1

Developmental vulnerability at age five among children who enter and progress through the child protection system in New South Wales, Australia: a cross-sectoral data linkage study

Presented by: **Kathleen Falster**

C4.2

Use of cross-sectoral data linkage to predict high-rate offenders in Western Australia

Presented by: **Anna Ferrante**

C4.3

How do socio-demographic differences in administrative records affect the quality (accuracy) of data linkage?

Presented by: **Anna Ferrante**

C4.4

Gana Burrai: applying population data linkage to more accurately measure Aboriginal maternal and infant outcomes in the Goulburn Murray Region

Presented by: **Jane Freemantle**

C4.5

Social Class and Hospitalization in Canada

Presented by: **Jenny Godley**

C4.6

Housing and Health: Linking Population Health Survey Data to Housing Assistance Data

Presented by: **Cordell Golden**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

3:15PM TO 4:30PM

CONCURRENT SESSION C

C5.1

Measuring Trends in Health Inequalities across Urban Cities in Canada: A Focus on Health System Outcomes

Presented by: **Geoff Hynes**

C5.2

Trends in Socioeconomic Inequalities in Ischemic Heart Disease, 2000-2012

Presented by: **Brendan Smith**

C5.3

Public housing and healthcare use: Determining whether public housing functions as an intervention using linked population-based administrative data

Presented by: **Aynsle Hinds**

C5.4

Calgary Thrives: Data sharing and linkage in the not-for-profit sector.

Presented by: **Robert Jagodzinski**

C5.5

Education and social service use patterns of children and youth with neurodevelopmental disorders

Presented by: **Ruiting Jia**

C5.6

Environmental Risk Factors on Suicide of Children and Young People

Presented by: **Ann John**

C6.1

Coding Agreement on Identification of Main Resource Use Using ICD-10 and ICD-11

Presented by: **Chelsea Doktorchik**

C6.2

Strengths and Barriers to Coding Hospital Chart Information from Health Information Manager Perspectives: A Qualitative Study

Presented by: **Chelsea Doktorchik**

C6.3

Improving the Coding Completeness of Hypertension in Inpatient Administrative Health Data Using Machine Learning Methods

Presented by: **Adam D'Souza**

C6.4

How do we enhance linked administrative data based chronic disease surveillance in Canada? Results of an environmental scan.

Presented by: **Raquel Duchon**

C6.5

Experiences with Coding using ICD-11: "The Codes Paint a Clearer Picture"

Presented by: **Catherine Eastwood**

C6.6

Integrating Ontario Health and Social Services Data to for Research and Policy Development

Presented by: **Mandeep Flora**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

C7.1

Validating the accuracy of place of death in Vital Statistics of Calgary Zone residents in 2015.

Presented by: **Andrew Fong**

C7.2

Cecilia: an R package to automate data cleaning of administrative datasets

Presented by: **Alexandre Franco Garcia**

C7.3

Record Linking Techniques in the Utah Population Database to Improve Linking Rates of Hispanics

Presented by: **Alison Fraser**

C7.4

Challenges in linking administrative data for monitoring bloodstream infection in neonatal units in England and Wales

Presented by: **Caroline Fraser**

C7.5

Maternal mortality of women with opioid-use during pregnancy in England: investigating bias in a cohort of linked mother-baby hospital records

Presented by: **Ruth Gilbert**

C7.6

Validation & Vindication – Comparing Electronic Health Records with Hospital Notes

Presented by: **Alex Hacker**

C8.1

Using linked data and family studies to understand multigenerational causes of low birthweight among Australian Aboriginal infants

Presented by: **Alison Gibberd**

C8.2

Poor birth outcomes among Aboriginal Western Australians and smoking, alcohol and substance misuse, and assault

Presented by: **Alison Gibberd**

C8.3

Secondary care provision for children and young people with Cerebral palsy: A data-linkage study

Presented by: **Bethan Carter**

C8.4

Effectiveness of rotavirus vaccine against rotavirus-coded hospitalisations among Australian Aboriginal and non-Aboriginal children

Presented by: **Parveen Fathima**

C8.5

Linking lab, program, and administrative data to provide comprehensive colorectal cancer screening status of patients to primary care providers in Calgary, Alberta.

Presented by: **Jessica Law**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

C9.1

Patient-Physician Relational Continuity and Health System Utilization Among Albertans

Presented by: **Tanmay Patil**

C9.2

Predicting health care utilization using CIHI's Population Grouping Methodology

Presented by: **Yvonne Rosehart**

C9.3

Development of a frailty score based on hospital discharge data linked to cohort data

Presented by: **Bernard Burnard**

C9.4

Making the link: using long-term cancer survival measures linked with acute care data to plan health services.

Presented by: **Cameron Wright**

C9.5

Using Australia's National Data Linkage Demonstration Project (NDLDP) to improve cardiac care: Towards a national, whole-of-population linked data resource for evidence-informed health policy

Presented by: **Michael Falster**

3:15PM TO 4:30PM

CONCURRENT SESSION C

C10: APPLIED PROJECTS (3)

KINNENAR CENTRE 206

C10.1

A large linked study to evaluate the future the burden of cancer in Australia attributable to current modifiable behaviours.

Presented by: **Maarit Laaksonen**

C10.2

Ontario's stroke report cards: Cross-continuum data linkage allows evaluation of system of care

Presented by: **Ruth Hall**

C10.3

People with mild cognitive impairment are at increased risk of serious injury

Presented by: **Lara Harvey**

C10.4

BC Data ScoutTM: A New Tool To Investigate Datasets For Health Research

Presented by: **Sarah Kesselring**

C10.5

Linking air pollution and administrative health databases to examine health effects of wildfire smoke exposure in Calgary, Canada in 2015

Presented by: **MD Mahsin**

C10.6

Evaluating the impact of timing of initiation of community-based palliative care on use and cost of unplanned acute care services at the end of life: A study using linked hospital and community-based provider service data

Presented by: **Rachael Moorin**

WEDNESDAY, SEPTEMBER 12, 2018 (continued)

3:15PM TO 4:30PM

CONCURRENT SESSION C

C11: INTERNATIONAL COLLABORATIVE WORKSHOP (1)

KINNENAR CENTRE 208

C11

What makes great data documentation?

Presented by: **Mark Smith**

3:15PM TO 4:30PM

CONCURRENT SESSION C

**C12: INTERNATIONAL COLLABORATIVE
WORKSHOP (2)**

KINNEAR CENTRE 210

C12

Secure data analysis environments: can we agree on criteria for “Appropriate secure access” to linked health data?

Presented by: **Lousia R Jorm**

THURSDAY, SEPTEMBER 13, 2018

9:45am to 11:15am

CONCURRENT SESSION D

D1: ADVANCED ANALYTICS

MAX BELL 251

D1.1

Analysing complex linked administrative data in health services research: Issues and solutions

Presented by: Rachael Moorin

D1.2

Privacy preserving record linkage meets record linkage using unencrypted data

Presented by: Hesam Izakian

D1.3

Inferring sensitivity and specificity of phenotyping algorithms using positive and negative predictive value in validation study in observational health data

Presented by: Mingkai Peng

D1.4

Using Linked Data and Advanced Analytics to Prioritize Health Concerns within Regions

Presented by: Guido Antonio Powell

D1.5

In-Utero SSRI and SNRI Exposure and the Risk of Long Term Adverse Mental and Educational Outcomes in Children: A Population-Based Retrospective Cohort Study Utilizing Linked Administrative Data

Presented by: Deepa Singal

9:45am to 11:15am

CONCURRENT SESSION D

D2: ANALYTICAL APPROACHES TO DISTRIBUTED DATA

KINNEAR CENTRE 303

D2.1

Distributed NLP Framework to create new federated data-sets

Presented by: Simon Thompson

D2.2

A big data analytics platform to support simulation modeling for osteoarthritis care pathways

Presented by: Shelly Vik

D2.3

Reducing bias in multivariate analyses due to the modifiable areal unit problem.

Presented by: David Whyatt

D2.4

Identifying Knowledge Gaps with Administrative Health Data: A Cohort Study of Traumatic and Non-Traumatic Spinal Cord Injury in Alberta

Presented by: Jack Man Shun Yeung

D2.5

International Comparison in Opiate Prescribing for New Users in Primary Care using Electronic Medical Record Data

Presented by: Robyn Tamblyn

THURSDAY, SEPTEMBER 13, 2018 (continued)

9:45am to 11:15am

CONCURRENT SESSION D

D3: SOCIAL DETERMINANT OF HEALTH AND CROSS-SECTORAL DATA LINKAGE

KINNEAR CENTRE 301

D3.1

Establishment of a National Homelessness Prevention Programme dataset to enable an anonymised longitudinal dynamic cohort-based study

Presented by: Sarah Lowe

D3.2

Advancing cross-centre research networks: learning from experience, looking to the future

Presented by: Kerina Jones

D3.3

Deaths in young people after contact with the youth justice system: a retrospective data linkage study

Presented by: Stuart Kinner

D3.4

Combining cross-sectoral, prospective data linkage with other data sources to examine health outcomes for socially excluded populations: A case study from Australia

Presented by: Stuart Kinner

D3.5

Integrating Local Government, Non-Profit and Social Service Agency Data to Understand Systems and Outcomes in a Large, Southeastern U.S. City

Presented by: Justin Lane

D3.6

Mortality among single fathers as compared with single mothers and partnered fathers: a cohort study

Presented by: Cindy Lau

9:45am to 11:15am

CONCURRENT SESSION D

D4: DATA AND LINKAGE QUALITY (1)

MAX BELL 252

D4.1

Better than blocking: building and using multiple variable pattern indexes (MVPI) to screen data sources for possible matches and reduce linkage search space

Presented by: Sigurd Hermansen

D4.2

Meeting the challenge of data linkage for special populations

Presented by: Brent Hills

D4.3

Real world performance of privacy preserving record linkage

Presented by: Katie Irvine

D4.4

High quality linked data for stroke obtained using non-government clinical registry and routinely collected hospital and death data

Presented by: Monique Kilkenny

D4.5

Study on construction of comprehensive community health databases through linkage between Community Health Survey data and other community contextual indicators in Korea

Presented by: Dong-Hyun Kim

D4.6

Establishing an International Data Linkage Repository Workgroup Toward a Benchmarking Repository

Presented by: Hye-Chung Kum

THURSDAY, SEPTEMBER 13, 2018 (continued)

9:45am to 11:15am

CONCURRENT SESSION D

D5: DATA AND LINKAGE QUALITY (2)

MAX BELL 253

D5.1

Gaining knowledge of Ontario's community mental health and addictions system: linking community-based health services data with administrative health data in Toronto, Ontario, Canada

Presented by: **Paul Kurdyak**

D5.2

A bayesian way to correct for measurement error in drug risk estimates from EHR data.

Presented by: **Maxime Lavigne**

D5.3

Ligo: An Open Source Application for the Management and Execution of Administrative Data Linkage

Presented by: **Greg Lawrance**

D5.4

Quality assessment of linked Canadian clinical administrative hospital and vital statistics death data

Presented by: **Nancy Rodrigues**

D5.5

Use of linked data to assess the impact of out-of-hospital deaths on 30-day mortality indicators

Presented by: **Mingyang (Xiaoqiang) Li**

D5.6

Validating health conditions in a clinical registry using administrative data algorithms

Presented by: **Lisa Lix**

9:45am to 11:15am

CONCURRENT SESSION D

D6: APPLIED PROJECTS (1)

KINNEAR CENTRE 305

D6.1

Describing hospital utilisation and associated factors following stroke using linked clinical registry and hospital administrative data.

Presented by: **Nadine Andrew**

D6.2

Health Inequalities in British Nurses using Census derived databases linked to an adjusted UK Index of Multiple Deprivation

Presented by: **Will Ball**

D6.3

Linking surveillance and climate data to combat malaria

Presented by: **Marcos Barreto**

D6.4

In Sickness and In Health: Effects of Cardiovascular Health Shocks on Spouses' Work and Earnings

Presented by: **Randy Fransoo**

D6.5

Establishing the Occupational Disease Surveillance System (ODSS) for Ontario: a linkage of administrative data

Presented by: **Chloe Logar-Henderson**

THURSDAY, SEPTEMBER 13, 2018 (continued)

9:45am to 11:15am

CONCURRENT SESSION D

D7: APPLIED PROJECTS (2)

KINNEAR CENTRE 201

D7.1

Multimorbidity and access to social Care: exploiting emerging administrative data sources in Scotland.

Presented by: David Henderson

D7.2

Linking environment and health data to investigate the association between access to unhealthy food and child BMI

Presented by: Amy Mizen

D7.3

Is educational attainment associated with acute exposure to air pollution and pollen, and is it worse for pupils with asthma and seasonal allergic rhinitis?

Presented by: Amy Mizen

D7.4

Preterm birth, unplanned hospital contact and mortality in infants born to teenage mothers in five countries: a cross-country comparison using linked administrative data

Presented by: Katie Harron

D7.5

Exploring outcomes for children who have experienced out-of-home care in Western Australia.

Presented by: Fernando Lima

D7.6

Identifying vulnerable population groups: On-time infant vaccination coverage in Australia

Presented by: Hannah Moore

9:45am to 11:15am

CONCURRENT SESSION D

D8: APPLIED PROJECTS (3)

KINNEAR CENTRE 204

D8.1

Multi-morbidity using General Practice drug chapters and the relationship with secondary healthcare utilisation in Wales, UK

Presented by: Ronan Lyons

D8.2

Development and Characteristics of the Provincial Overdose Cohort in British Columbia, Canada

Presented by: Laura MacDougall

D8.3

Self-harm hospitalised morbidity and mortality risk in Australia using a matched population-based cohort

Presented by: Rebecca Mitchell

D8.4

Linking surveillance and administrative data to better understand dementia's impact in Canada

Presented by: Tracy Johnson

D8.5

Quantifying inequalities in mortality in Australia: the value of linked Census-mortality data

Presented by: Rosemary Korda

THURSDAY, SEPTEMBER 13, 2018 (continued)

9:45am to 11:15am

CONCURRENT SESSION D

D9: APPLIED PROJECTS (4)

KINNEAR CENTRE 206

D9.1

Using administrative health data to inform health service planning for specialist cancer care in Nova Scotia, Canada

Presented by: Robin Urquhart

D9.2

Development of an automated system for clinical study recruitment

Presented by: Erik Youngson

D9.3

Using routinely collected laboratory and health administrative data to assess influenza vaccine effectiveness: introducing the Flu and Other Respiratory Viruses Research (FOREVER) Cohort

Presented by: Hannah Chung

D9.4

Developing and implementing linked electronic medical record and administrative data in primary care practice for diabetes in Alberta

Presented by: Neil Drummond

D9.5

Patient Experiences with Cardiac Surgery in Alberta, Canada: Results from a Validated Survey

Presented by: Kyle Kemp

D9.6

Linking Antimicrobial Resistance Surveillance Data to Provincial Hospital Records: A Descriptive Study of Patient and Facility-level Characteristics

Presented by: Seungwon Lee

9:45am to 11:15am

CONCURRENT SESSION D

D10: INTERNATIONAL COLLABORATIVE
WORKSHOP (1)

KINNEAR CENTRE 208

D10

Using Artificial Intelligence Technology for Social Determinants and Risk Factors Surveillance

Presented by: Vineet Saini

9:45am to 11:15am

CONCURRENT SESSION D

D11: INTERNATIONAL COLLABORATIVE
WORKSHOP (2)

KINNEAR CENTRE 210

D11

Creating an IPDLN Maternal Child Health Interest Working Group

Presented by: Milton Kotelchuk

9:45am to 11:15am

CONCURRENT SESSION D

D12: Developing a Publicly Acceptable
Electronic Health Data Ecosystem – Panel

KINNEAR CENTRE 308

D12

Developing a publicly acceptable electronic health data ecosystem to support clinical care, health system improvement and research: the role of government, the private sector and public sector

Presented by: Kim McGrail, Greg Horne, Rosario Cartagena, Pamela Snively, Larry Svenson and Deborah Prowse

THURSDAY, SEPTEMBER 13, 2018 (continued)

12:45pm to 2:15pm

CONCURRENT SESSION E

E1: ADVANCED ANALYTICS

MAX BELL 251

E1.1

Effect of the Look-back period for the estimation of the incidence rates using administrative data

Presented by: Mira Kim

E1.2

Stats NZ Integrated Data Population Explorer Prototype – using data visualisation to increase usability of large scale, complex and messy data

Presented by: Aaron Lefebre

E1.3

Does the family physicians' characteristics affect Cervical Cancer Screening rates?

Presented by: Sayeeda Amber Sayed

E1.4

Estimating the effect of referral for nephrology care on the survival of adults with advanced chronic kidney disease in a real-world clinical setting

Presented by: Ping Liu

E1.5

Linkage of Chronic Disease Data from Provincial Sources for Strategic Decision Support and Population Health Surveillance in British Columbia (BC)

Presented by: Drona Rasali

12:45pm to 2:15pm

CONCURRENT SESSION E

E2: SOCIAL DETERMINANTS OF HEALTH AND
CROSS- SECTORAL DATA LINKAGE

KINNEAR CENTRE 301

E2.1

Linking household level GIS-generated environmental exposure scores with individual level anonymised health data

Presented by: Amy Mizen

E2.2

Using Planning Data to Monitor the Health of Communities - The Healthy Development: Monitoring and Mapping Project

Presented by: Maria Mukhtar, David Guillette

E2.3

Education Outcomes Associated with Full Day Kindergarten Among First Nations Children: A retrospective administrative database cohort study

Presented by: Nathan Nickel

E2.4

Is uptake of disability-related social security benefits modified by demographic, social and area-level factors?

Presented by: Dermot O'Reilly

E2.5

Collaborative Public Health Surveillance Strategies to Address Local Health Needs

Presented by: Norma Padron

E2.6

Advancing the measurement of health inequalities in Canada with linked health and social data

Presented by: Geoff Hynes

THURSDAY, SEPTEMBER 13, 2018 (continued)

12:45pm to 2:15pm

CONCURRENT SESSION E

E3: DATA AND LINKAGE QUALITY (1)

MAX BELL 252

E3.1

Improving name comparison similarity scores to reduce number of records for clerical review

Presented by: **Miro Palfy**

E3.2

Proof of Concept for a Privacy Preserving National Mortality Register

Presented by: **Rainer Schnell**

E3.3

Data Linkage and Data Quality Assessment for Congenital Anomalies

Presented by: **Qun(Grace) Miao**

E3.4

Quality of linked data: Linking the National Hospital Care Survey Data to the National Death Index

Presented by: **Lisa Mirel**

E3.5

ICD coding training worldwide

Presented by: **Lucia Otero Varela**

E3.6

Validating coding for a chronic condition (Cerebral Palsy) in routinely collected hospital admissions data

Presented by: **Bethan Carter**

12:45pm to 2:15pm

CONCURRENT SESSION E

E4: DATA AND LINKAGE QUALITY (2)

MAX BELL 253

E4.1

Development and validation of data quality rules in administrative health data using association rule mining

Presented by: **Mingkai Peng**

E4.2

Concordance of EDI-based prevalence rates of health disorders with administrative data in two Canadian provinces

Presented by: **Caroline Reid-Westoby**

E4.3

Impact of linkage quality on inferences drawn from analyses using imperfectly matched data with high rates of linkage errors

Presented by: **Christopher Rentsch**

E4.4

Reconciling Parent-Child Relationships across US Administrative Datasets

Presented by: **Amy O'Hara**

E4.5

Automatic coding of nearly 2 million hospitalisation events to ICD-10 in the China Kadoorie Biobank

Presented by: **Sam Sansome**

E4.6

How good are electronic health records and death certificates for identifying Alzheimer's disease and related dementia?

Presented by: **Karen Schliep**

THURSDAY, SEPTEMBER 13, 2018 (continued)

12:45pm to 2:15pm

CONCURRENT SESSION E

E5: APPLIED PROJECTS (1)

KINNEAR CENTRE 303

E5.1

Duration of maternal mental health-related outcomes after an infant's death: A retrospective matched-cohort study using linkable administrative data

Presented by: Elizabeth Wall-Wieler

E5.2

Maternal vulnerability and birth interval in England: a retrospective analysis of hospital episode statistics

Presented by: Linda Wijlaars

E5.3

A comparison of child mortality from potentially preventable causes in England and Sweden using birth cohorts from linked administrative datasets

Presented by: Ania Zylbersztejn

E5.4

Using administrative data to examine mental health service use among post-secondary students in Alberta, Canada

Presented by: Navjot Lamba

E5.5

Using administrative data to examine government service transitions of children, youth and young adults in Alberta, Canada

Presented by: Navjot Lamba

E5.6

Tranchant Harnessing the Power of Administrative Data to Create a Provincial-Level Child Health Profile and Birth Cohort in New Brunswick (NB) and Prince Edward Island (PEI)

Presented by: Carole Tranchant

12:45pm to 2:15pm

CONCURRENT SESSION E

E6: APPLIED PROJECTS (2)

KINNEAR CENTRE 204

E6.1

Varenicline is More Effective than Nicotine Replacement Therapy During Pregnancy: Findings from the Smoking MUMS (Maternal Use of Medications and Safety) Study

Presented by: Stephanie KY Choi

E6.2

Comparison of Health Behaviour Mortality Hazards in Canada and the United States

Presented by: Stacey Fisher

E6.3

Factors associated with the breast cancer diagnostic interval across five Canadian provinces: a CanIMPACT study

Presented by: Mary McBride

E6.4

Factors associated with screen-detected breast cancer across five Canadian provinces: a CanIMPACT study

Presented by: Mary McBride

E6.5

Prenatal exposure to the 2009 pandemic H1N1 influenza vaccine on health outcomes in children

Presented by: Jessy Donelle

E6.6

Neighbourhood built environments as correlates of hospital burden and premature mortality in Canada

Presented by: Sarah Mah

THURSDAY, SEPTEMBER 13, 2018 (continued)

12:45pm to 2:15pm

CONCURRENT SESSION E

E7: APPLIED PROJECTS (3)

KINNEAR CENTRE 201

E7.1

Adherence to Follow-up Care Guidelines for Breast Cancer Survivors in four Canadian provinces: a CanIMPACT study

Presented by: **Mary McBride**

E7.2

Factors predicting out-of-school suspensions for young children

Presented by: **Megan Bell**

E7.3

Association between blue and green space availability with mental health and wellbeing

Presented by: **Jiao Song**

E7.4

In-Utero SSRI and SNRI Exposure and the Risk of Neurodevelopmental Disorders in Children: A Population-Based Retrospective Cohort Study Utilizing Linked Administrative Data

Presented by: **Deepa Singal**

E7.5

Extracting Family Connections from Administrative Data

Presented by: **Stacy Ann Vasquez**

12:45pm to 2:15pm

CONCURRENT SESSION E

E8: APPLIED PROJECTS (4)

KINNAR CENTRE 305

E8.1

Population Analysis of the Settlement Movement in Western Canada

Presented by: **Luiza Antonie**

E8.2

Determining Potentially Avoidable Emergency Medical Services (EMS) Transports: A Population Level Study Using Linked Administrative Data in Alberta Health Services (AHS)

Presented by: **Pin Cai**

E8.3

Linking big data for cardiovascular health surveillance – opportunities and challenges using the CANHEART cohort

Presented by: **Anna Chu**

E8.4

Statistical Population Register: using administrative in the Canadian Census

Presented by: **Sylvain Cloutier**

E8.5

UK and Canadian Gulf War Veteran Mortality: Using A Fellow Military Cohort as a Comparison Population

Presented by: **Elizabeth Rolland-Harris**

THURSDAY, SEPTEMBER 13, 2018 (continued)

12:45pm to 2:15pm

CONCURRENT SESSION E

E9: APPLIED PROJECTS (5)

KINNAR CENTRE 206

E9.1

Internal and External Data Linkage of Complex Relational Database: Results from CorHealth Ontario

Presented by: Jiming Fang

E9.2

The Use of Long-Acting Injectable Antipsychotic Therapy for Schizophrenia

Presented by: Jason Jiang

E9.3

Access to palliative care in Canada

Presented by: Tracy Johnson

E9.4

Extracting primary care records for prostate cancer patients in the CHHIP multicentre randomised control trial: A healthcare data linkage study

Presented by: Agnieszka Lemanska

E9.5

Data Services for Cohort Studies: Increasing the impact of existing research studies and epidemiological readiness

Presented by: Laura North

12:45pm to 2:15pm

CONCURRENT SESSION E

E10: INTERNATIONAL COLLABORATIVE
WORKSHOP (1)

KINNEAR CENTRE 208

E10

Using linked health data in international comparisons of infectious disease burden

Presented by: Rachel Reeves

12:45pm to 2:15pm

CONCURRENT SESSION E

E11: INTERNATIONAL COLLABORATIVE
WORKSHOP (2)

KINNEAR CENTRE 210

E11

Canadian Approaches to Optimizing Quality of Administrative Data for Health System Use, Research, and Linkage

Presented by: Catherine Eastwood

12:45pm to 2:15pm

CONCURRENT SESSION E

E12: INTERNATIONAL COLLABORATIVE
WORKSHOP (3)

KINNEAR CENTRE 308

E12

Linked data and inclusion health: Harmonised international data linkage to identify determinants of health inequalities

Presented by: Jesse Young

FRIDAY, SEPTEMBER 14, 2018

10:00AM TO 12:00PM

CONCURRENT SESSION F

F1: ADVANCED ANALYTICS

MAX BELL 251

F1.1

Interactive Data Visualization of Patient Experience and Inpatient Datasets using Tableau Desktop

Presented by: Kyle Kemp

F1.2

How integration of the federal Indian Register has enhanced First Nations-specific analysis of ICES data

Presented by: Sue Schultz

F1.3

Developing trauma mortality prediction models to measure injury severity

Presented by: Angharad Walters

F1.4

Identify Patients with Congestive Heart Failure through Analyzing Free-Text Clinical Notes

Presented by: Margot Yann

F1.5

Regular General Practitioner contact - analysis of methods for measurement using administrative data

Presented by: David Youens

F1.6

A Bayesian Network Model of the Relationships between Chronic Disease Indicators

Presented by: Mengru Yuan

10:00AM TO 12:00PM

CONCURRENT SESSION F

F2: SOCIAL DETERMINANTS OF HEALTH AND
CROSS-SECTORAL DATA LINKAGE (1)

KINNEAR CENTRE 301

F2.1

School readiness of maltreated children: Timing, type, and chronicity of maltreatment

Presented by: Megan Bell

F2.2

Linking First Nations data to administrative health data within Manitoba

Presented by: Venkata Shravan Ramayanam

F2.3

Understanding the social determinants of opioid related hospitalizations

Presented by: Claudia Sanmartin

F2.4

Mortality of mothers with opioid-use during pregnancy: an international comparison using linked mother-baby records for England and Ontario

Presented by: Astrid Guttmann

F2.5

Canadian trends in the social determinants of health inequalities, a census-mortality linkage approach

Presented by: Claudia Sanmartin

F2.6

Creating the Framework for Cross-Sector Health Analysis for Local Communities

Presented by: Heather Richards

FRIDAY, SEPTEMBER 14, 2018 (continued)

10:00AM TO 12:00PM

CONCURRENT SESSION F

F3: SOCIAL DETERMINANTS OF HEALTH AND
CROSS-SECTORAL DATA LINKAGE (2)

KINNEAR CENTRE 303

F3.1

Avoidable mortality among parents whose children were placed in care in Sweden: A retrospective matched cohort study

Presented by: Elizabeth Wall-Wieler

F3.2

The Cycle of Child Protection Services Involvement: A Cohort Study of Adolescent Mothers

Presented by: Elizabeth Wall-Wieler

F3.3

Changes in Development Among Kindergarten Children in Ontario 2012-2015: Linking Developmental, Sociodemographic, and Policy Implementation Data

Presented by: Simon Webb

F3.4

The Shape of the Socioeconomic Gradient: Testing to Functional Form of the Relationship between Socioeconomic Status and Early Child Development

Presented by: Simon Webb

F3.5

Maternal assault admissions are associated with increased risk of child protection involvement

Presented by: Carol Orr

F3.6

Linking Pan-Canadian Administrative and Clinical Registry Data to gain insights across the continuum of care

Presented by: Juliana Wu

10:00AM TO 12:00PM

CONCURRENT SESSION F

F4: DATA AND LINKAGE QUALITY (1)

MAX BELL 252

F4.1

Data Quality Automation: a Generic Approach for Large Linked Research Datasets

Presented by: Daniel Thayer

F4.2

Code List Library: A Solution to Improve Research Repeatability, Transparency, and Efficiency by Curating Lists of Clinical Codes

Presented by: Daniel Thayer

F4.3

What is an admission? A standardised approach to classifying inpatient episode data from multiple jurisdictions

Presented by: Daniel Thayer

F4.4

Challenges and Facilitating Factors in Accessing Administrative Data for Research: Insights from the Children's Health Profile and Trajectory Initiative in NB and PEI

Presented by: Sarah Sparks

FRIDAY, SEPTEMBER 14, 2018 (continued)

10:00AM TO 12:00PM

CONCURRENT SESSION F

F5: DATA AND LINKAGE QUALITY (2)

MAX BELL 253

F5.1

Supporting the timely, easy and cost effective access to high-quality linked data via the Custodian-Controlled Data Repository

Presented by: **Matthias Schneider**

F5.2

A longitudinal, historical model of households using linked Welsh administrative data

Presented by: **Karen Tingay**

F5.3

Synthetic data generator for testing record linkage routines in Brazil.

Presented by: **Vitor Trentin**

F5.4

Data Linkage Methods in Manitoba

Presented by: **Ken Turner**

F5.5

A Comparison of Record Linkage Software and Algorithms Using Real-World Data

Presented by: **Alan Karr**

10:00AM TO 12:00PM

CONCURRENT SESSION F

F6: APPLIED PROJECTS (1)

KINNEAR CENTRE 204

F6.1

Linking the Narcotics Monitoring System Database to Quantify the Contribution of Prescribed and Non-Prescribed Opioids to Opioid Overdoses in Ontario, Canada

Presented by: **Diana Martins**

F6.2

Dementias Platform UK (DPUK) Data Portal - World-leading infrastructure facilitating innovative multi-modal research

Presented by: **Christopher Orton**

F6.3

From online banking to biobanking: designing and implementing a data delivery platform for researchers of the China Kadoorie Biobank

Presented by: **Sam Sansome**

F6.4

Patient-Reported Outcomes Improves the Prediction of In-patient and Emergency Department Readmission Risks in Coronary Artery Disease

Presented by: **Danielle Southern**

F6.5

A Population-Based Examination of Benzodiazepine Receptor Agonist & Z-drug Dispensations in the Alberta Population: Prevalence of Use and Indicators of Potentially Inappropriate Use and Prescribing

Presented by: **Daniela Weir**

F6.6

Record linkage of pharmacovigilance and registration databases: a study of biological medicines in Brazil

Presented by: **Monica Soares**

FRIDAY, SEPTEMBER 14, 2018

10:00AM TO 12:00PM

CONCURRENT SESSION F

F7: APPLIED PROJECTS (2)

KINNEAR CENTRE 206

F7.1

Patterns of opioid utilization in the 90-days post hospital discharge and risk of re-admissions and emergency department visits

Presented by: **Siyana Kurteva**

F7.2

International comparison in walkable environments and hospital burden in type 2 diabetes patients

Presented by: Sarah Mah

F7.3

The Effect of Medication Adherence on the Disease Course in Pregnant Women with Inflammatory Bowel Disease

Presented by: Sangmin (Sarah) Lee

F7.4

Premature Mortality among People with Severe Mental Illness – New Evidence from Linked Primary Care Data

Presented by: Sze Chim Lee

F7.5

Utilizing population-based clinical and administrative data to estimate the incremental healthcare costs of dementia and frailty among community-residing care recipients.

Presented by: Luke Mondor

F7.6

Facilitating Patient Recruitment Process for Research

Presented by: Bing Li

10:00AM TO 12:00PM

CONCURRENT SESSION F

F8: APPLIED PROJECTS (3)

KINNEAR CENTRE 208

F8.1

Diagnosis incidence of autism spectrum disorders is underestimated in Australian children, and there are inequalities in access to diagnosis and treatment services: a data linkage study of health service usage

Presented by: Kylie-Ann Mallitt

F8.2

Diabetic Ketoacidosis (DKA) at Diabetes Diagnosis in Children (0-18 years) in Ontario, Canada: A Population-Based Retrospective Cohort Study of Health Administrative Data

Presented by: Oxana Mian

F8.3

Intellectual Disability in Children with Congenital Heart Defects in Western Australia

Presented by: Wendy Nembhard

F8.4

25-hydroxyvitamin D and health service utilization for asthma in early childhood

Presented by: Jessica Omand

F8.5

The Impact of Linked Administrative Data on Community Development of Integrated Mental Health Hubs: a Case Study

Presented by: Naomi Parker

FRIDAY, SEPTEMBER 14, 2018 (continued)

10:00AM TO 12:00PM

CONCURRENT SESSION F

F9: APPLIED PROJECTS (4)

KINNEAR CENTRE 210

F9.1

From the back room to the front room: Combining clinical and financial information to support evidence-based decision making

Presented by: Nathalie Robertson

F9.2

Automated Referral to Cardiac Rehabilitation following Coronary Artery Bypass Grafting is associated with limited improvements in program completion: a large cohort study

Presented by: Hongwei Liu

F9.3

Characteristics of Opioid-Related Deaths in Ontario, Canada: Leveraging the Drug and Drug/Alcohol Related Death (DDARD) Database

Presented by: Samantha Singh

F9.4

Utilizing population-based clinical and administrative data to explore the relevance of frailty to cholinesterase inhibitor use and discontinuation at nursing home transition.

Presented by: Laura Maclagan

10:00AM TO 12:00PM

CONCURRENT SESSION F

F10: INTERNATIONAL COLLABORATIVE
WORKSHOP (1)

KINNEAR CENTRE 308

F10

Perspectives on Linkage Involving Indigenous data

Presented by: Jennifer Walker

10:00AM TO 12:00PM

CONCURRENT SESSION F

F11: INTERNATIONAL COLLABORATIVE
WORKSHOP (2)

KINNEAR CENTRE 201

F11

A New Standards-based Grammar for Linking Aggregate Datasets

Presented by: Derek Ritz

10:00AM TO 12:00PM

CONCURRENT SESSION F

F12: INTERNATIONAL COLLABORATIVE
WORKSHOP (3)

KINNEAR CENTRE 310

F12

A National Concept Dictionary

Presented by: Mahmoud Azimaee