

21st
ANNUAL



HEI RESEARCH DAY

MARCH 7TH, 2024 | McMASTER UNIVERSITY

2024

8:00 AM - 9:00 AM REGISTRATION, CONTINENTAL BREAKFAST AND POSTER VIEWING

9:00 AM - 9:15 AM EAST BALLROOM – OPENING REMARKS by Department Chair, **Dr. Alfonso Iorio** – Chair of HEI

PLENARY SESSION I – EAST BALLROOM

9:15 AM - 9:45 AM Opportunities & Challenges in Planetary Health: a Look into How Partnerships can Mobilize Sustainable Practices in Health Systems, **Dr. Myles Sergeant** and **Dr. Sujane Kandasamy**

9:45 AM - 10:00 AM Discussion – Moderator: **Dr. Laura Anderson**

SPOTLIGHT SESSION – EAST BALLROOM

10:00 AM - 10:20 AM David Sackett Scholarship Recipient 2022-2023 | Heterogeneity across outcomes reported in clinical trials for older adults with depression, **Myanca Rodrigues**

10:20 AM - 10:45 AM CENTRE/SOUTH WEST BALLROOM & FOYER – REFRESHMENT BREAK & POSTER VIEWING

10:45 AM - 12:00 PM ORAL ABSTRACT SESSIONS

EAST BALLROOM | CONCURRENT SESSION A – Moderator: Dr. Aaron Jones

1. Elena Kum - Development of the McMaster Cough Severity Questionnaire (MCSQ): a cough severity instrument for patients with chronic cough
2. Parnian Hossein Pour - Racial disparities in maternal blood transfusion in the United States by mode of delivery: a retrospective cohort study
3. Sahar Khademioore - Effectiveness of mobile health (mHealth) counselling and behavioral interventions on gestational weight gain: A systematic review and meta-analysis of randomized controlled trials
4. Harmanvir Dhaliwal - High emergency department utilization during the 2021/2022 fiscal year of the COVID-19 pandemic among Ontarians who have a history of homelessness
5. Jhalok Ronjan Talukdar - Association between fat distribution and multidimensional frailty in the Canadian Longitudinal Study on Aging

MacNAB ROOM | CONCURRENT SESSION B - Moderator: Dr. Dena Zeraatkar

1. Tanvir Jassal - Grilling the data: A multiverse approach to the study of red meat and all-cause mortality
2. Gonzalo-Antonio Bravo-Soto - Understanding the barriers and facilitators for developing and implementing evidence-based practice guidelines during a pandemic: A complex mixed-methods study
3. Xiajing Chu - Efficacy and Safety of Systemic Corticosteroids for Urticaria: A systematic review and meta-analysis of randomized clinical trials
4. Patricia Farrugia, Matt Bolis, Mya Jain - Needs Assessment: Understanding the Experience of Marginalized Populations - Focus on Indigenous Populations: A Survey of Patients Attending McMaster Fracture Clinic
5. Letebrhan Ferrow - Awareness of Actions to Reduce Dementia Risk Among First Nations People in File Hills Qu'Appelle Tribal Council: A Review of the Brain Health PRO Platform

12:00 PM – 1:30 PM CENTRE/SOUTH WEST BALLROOM & FOYER – LUNCH AND POSTER PRESENTATIONS

1:30 PM – 2:45 PM ORAL ABSTRACT SESSIONS

EAST BALLROOM | CONCURRENT SESSION C - Moderator: Dr. Kim Madden

1. Maya Rajasingham - Marked racial/ethnic disparities in obstetric anal sphincter injury across modes of delivery
2. Eman Aljohani - The Effect of Delayed Cord Clamping on Early Cardiac and Cerebral Hemodynamics, Mortality and Severe IVH: a Systematic Review and Meta-analysis of Clinical Trials
3. Imad Kashir - A Multicentre Prospective Observational Study of Factors Associated with Persistent Pain and Poor Satisfaction after Knee Arthroplasty
4. Emma van Reekum - Neuropsychiatric outcomes of bariatric surgery: a systematic review and meta-analysis
5. Yulika Yoshida-Montezuma - Health equity disparities in obesity risk among children and parents during the COVID-19 pandemic in Canada

MacNAB ROOM | CONCURRENT SESSION D - Moderator: Dr. Wojtek Wiercioch

1. Kean Nanji - The Impact of COVID-19 on a Real-World Treat and Extend Regimen with Aflibercept in Neovascular AMD
2. Saifur Rahman Chowdhury - Global and regional prevalence of multimorbidity in the adult population in community settings: a systematic review and meta-analysis
3. Lily Park - Association between complications and death within 30 days after orthopedic surgery: A Vascular Events in Noncardiac Surgery Patients Cohort Evaluation (VISION) substudy
4. Ahmad Sofi-Mahmudi - COVID-19-related research data availability and quality according to the FAIR principles: A meta-research study
5. Irina Oltean - Severe neonatal morbidity with forceps versus vacuum delivery among individuals with a vaginal birth after cesarean delivery

2:45 PM - 3:00 PM CENTRE/SOUTH WEST BALLROOM & FOYER – REFRESHMENT BREAK & POSTER VIEWING

PLENARY SESSION II – EAST BALLROOM

3:00 PM - 3:30 PM Advancing equity, diversity, and inclusion in health research, **Dr. Lawrence Mbuagbaw**

3:30 PM - 3:45 PM Discussion – Moderator: **Dr. Andrea Darzi**

3:45 PM - 4:00 PM EAST BALLROOM – CONCLUDING REMARKS AND AWARD PRESENTATION, **Dr. Alfonso Iorio**

4:00 PM - 5:00 PM CENTRE/SOUTH WEST BALLROOM & FOYER – RECEPTION

**BRIGHTER
WORLD**

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HEALTH SCIENCES
Health Research Methods,
Evidence, and Impact

**McMaster
University** 



POSTER ABSTRACT PRESENTERS

1	Assessing Reporting Completeness and Methodological Quality of Dance Interventions in Continuing Care Facilities for Older Adults: A Systematic Review	Momina Abbas
2	COVID-19 Public Health Policies and Epidemiology in Norway from December 2020 to January 2022	Ishita Aggarwal
3	Evaluation of Outcome Measures of Pharmaceutical Phase-3 Randomized Clinical Trials in Chronic Obstructive Pulmonary Disease (COPD) – What is being measured? A Systematic Review	Sanaa Alsubheen
4	COVID-19 Physical Distancing Policies and Epidemiology in India: A qualitative case report	Vaibhav Arora
5	Exploring intervention reporting in older adult hip or knee arthroplasty prehabilitation trials: A systematic review	Ashlee Azizudin
6	COVID-19 public health policies and epidemiology in Japan between January 2020 and December 2022	Amanda Backal
7	Associations of inflammatory biomarkers with the risk of morbidity and mortality after noncardiac surgery: a systematic review and meta-analysis	Louis Park
8	Perioperative management of antithrombotic therapy in patients undergoing plastic and reconstructive surgery: A practical tool based on current guidelines	Tara Behroozian
9	The influence of the COVID-19 pandemic on the characteristics of health care utilization patterns of older adults with comorbidities and high emergency department use.	Jaskaran Benepal
10	Peru COVID-19 Physical Distancing Policies and Epidemiology from January 2020- December 2022: A case report	Melanie Bermudez
11	Efficacy and safety of complementary alternative medicine compared to systemic treatment for patients with chronic urticaria: a systematic review	Sukhdeep Bhangal
12	Examining the health care use differences between the first and second year of the COVID-19 pandemic among patients receiving palliative care who were frequent users of emergency department services	Bhavneet Bhangu
13	Effectiveness of Health Literacy Interventions Among Community-Dwelling Older Adults: A Systematic Review of Randomized Control Trials	Jasdeep Brar
14	Quality assessment of cannabis for medical purposes and chronic pain guidelines: a methodological study	Gonzalo Bravo Soto
15	Community Driven Physical Activity Strategies for the Prevention of Dementia in First Nations Communities in Canada: a scoping review	Hannah Butterworth
16	Validation Methods for Machine Learning in Biomedical Text Summarization: A Scoping Review	Hao Ming Chen
17	Analysing the WHO Essential Medicine List and Guidelines: A Protocol for Mapping the Alignment and Gap	Yuan Chi
18	Treatments for Critical Bleeding Events in Patients with Immune Thrombocytopenia: A Systematic Review	Saifur Rahman Chowdhury
19	Efficacy and safety of treatments for immune thrombocytopenia in children: A systematic review and network meta-analysis	Saifur Rahman Chowdhury
20	Changes in systolic and diastolic blood pressure in children during the COVID-19 pandemic	Nicolette Christodoulakis
21	Health Care for All Filipinos: The Driving Forces Behind the Universal Health Care Policies in the Philippines	Jonathan Cura
22	Analysis of the Philippine's Decision to Impose Deployment Cap to Address the Issue of Shortage of Healthcare Workers	Jonathan Cura
23	Patient Values and Preferences on Medical Use of Cannabis for Chronic Pain: A mixed-methods systematic review	Andrea J. Darzi
24	Ghana physical distancing policies and epidemiology from January 2020 - December 2022: A case report	Sarah De Buono
25	Prognostic Beliefs in Patients with Advanced Cancer Receiving Outpatient Palliative Care	Brooke D'Mello
26	A systematic review of reviews comparing simple trapeziectomy and trapeziectomy with ligament reconstruction and tendon interposition in thumb arthritis	Evan Fang
27	Prevalence and Implications of Inappropriate Spinal Imaging: A Systematic Review of Diagnostic Utilization	Joseph Gallab
28	Understanding Severe Maternal Morbidity Review in Southwestern Ontario to Inform an Obstetric Surveillance System Design: A Qualitative Descriptive Study (CanOSS-SWO)	Paige Gehrke
29	The Chicken or The Egg: Thrombosis & CVL-Dysfunction During Primary All Therapy	Louise Guolla
30	Prepandemic and postpandemic awareness of occupational health and safety in migrant workers	Ted Haines
31	Comparing Fertility Care for Individuals and Couples Living with and Affected by HIV and in Canada in 2007, 2014 and 2023	Jordan Hausman
32	Patient Perspectives of "Failure" in Breast Reconstruction: A Systematic Review of Qualitative Literature	Caroline Hircock
33	Drug treatments for mild or moderate covid-19: living systematic review and network meta-analysis	Sara Ibrahim
34	Drug treatments for severe or critical covid-19: living systematic review and network meta-analysis	Sara Ibrahim
35	Navigating Healthcare Leadership in the Post-Pandemic Era: A Clarification Study of Pre- and Post-COVID Dynamics	Aleksandrija Ilic
36	Prognostic risk factors for the development of food allergy in infants and children: A systematic review and meta-analysis of observational studies.	Nazmul Islam
37	Accounting for center-level effects in multicenter randomized control trials	Shofiqul Islam
38	Domo Arigato, Mr. Robot: Can ChatGPT reliably assess the risk of bias of randomized trials?	Tanvir Jassal
39	Cost-Effectiveness of timely surgery and timely inpatient rehabilitation for the management of hip fracture	Zheng Jing (Jimmy) Hu
40	Opioid Reduction and Enhanced recovery in Orthopedic Surgeries: a pilot randomized control trial in knee arthroplasty	Imad Kashir
41	Values and preferences in COVID-19 public health guidelines: A systematic review	Sarah Kirsh
42	Deriving Normative Data on 24-Hour Ambulatory Blood Pressure Monitoring for South Asian Children (ASHA)	Rani Kobayashi
43	Cerebrospinal fluid galactomannan detection for the diagnosis of central nervous system aspergillosis: a diagnostic test accuracy systematic review and meta-analysis	Adam S. Komorowski
44	Verification, analytical sensitivity, cost-effectiveness, and comparison of four Candida auris screening methods	Adam S. Komorowski
45	Interventions for post COVID-19 condition: A living systematic review & network meta-analysis	Michael Ling

46	Culturally safe Indigenous health research in practice: A webinar series co-created by community-based researchers and the Canadian Consortium on Neurodegeneration in Aging (CCNA) Indigenous Cognitive Health Program (ICHP)	Kassandra Loewen
47	Motion capture methods for shoulder biomechanics in healthy and clinical populations: a systematic review	Monica Malek
48	Effect of drug-drug interaction alerts on patient outcomes and safety: A systematic review.	Jessyca Matos Silva
49	REporting quality of PiOt Randomized controlled Trials in Surgery according to the CONSORT checklist (REPORTS CONSORT): A Methodological Survey	Tyler McKechnie
50	Exploring the Fragility of Meta-Analyses in Ophthalmology: A Systematic Review	Keean Nanji
51	Evaluating the Automated Solutions Assisting Priorities Population (ASAPP) Population Health Management Project	Zainib Nazir
52	Exploring the Experiences of Individuals Impacted by Eating Disorder Symptoms with a Virtual Support Program: A Canadian Qualitative Study	Maria Nicula
53	Continuity of care during transition to long-term care: A scoping review	Augustine Okoh
54	Impact of including conference abstracts in systematic reviews: analysis from a living systematic review and network meta-analysis of COVID-19	Maria-Jose Oliveros
55	Non-traditional measures of obesity across the life course: preliminary results from a systematic review	Alexandra Palumbo
56	Efficacy and safety of tranexamic acid in general surgery: A substudy of the POISE-3 randomized control trial	Lily Park
57	Association between complications and death within 30 days after general surgery procedures: A Vascular Events in Noncardiac Surgery Patients Cohort Evaluation (VISION) substudy	Lily Park
58	Examining health needs and service provision in residential care facilities – A proposed descriptive study	Zain Pasat
59	Risk of cervical laceration in forceps versus vacuum delivery: a systematic review and meta-analysis	Parnian Hossein Pour
60	Healthy Active Living Programs for New Immigrant Families in High-income Countries: A Scoping Review	Fazle Rabbi
61	Temporal trends in peripartum hysterectomy by race/ethnicity in the United States: a population-based cohort study of individuals with a previous cesarean delivery	Maya Rajasingham
62	CASCADE Database: Resource for Evidence Maps	Nadia Rehman
63	Venous thromboembolism among people with opioid use disorder: A retrospective data linkage study	Myanca Rodrigues
64	Covid-19 Physical Distancing Policies and Epidemiology in Israel: A qualitative case study	Rebecca Roy
65	Understanding institutionalization of public engagement in health policy and decision-making: A critical interpretive synthesis	Rana Saleh
66	Understanding the impacts of South Asian advocacy groups on COVID-19 mitigation in Ontario: Case study of the South Asian COVID-19 Task Force (SACTF)	Pushpita Samina
67	An empirical comparison of Dose-Response meta-analytic methods using data from nutritional studies	Marimuthu Sappani
68	Wording Approaches to Convey the Strength of Recommendations in Health Guidelines: A Randomized Controlled Trial (RCT)	Shahab Sayfi
69	Preparing Hospital Electronic Medical Record Data for Research: Essential Data Validation	Tyler Schneider
70	Understanding the Process of Establishing Obstetric Survey Systems: An International Qualitative Research Study	Rebecca Seymour & Bronte Johnston
71	Feasibility of Establishing a Canadian Obstetric Survey System (CanOSS) for Severe Maternal Morbidity: Results of Qualitative Interviews	Rebecca Seymour
72	How do people with pregnancy experience and the providers who care for them understand maternal morbidity?	Rebecca Seymour
73	A qualitative multiple case study on the development of the Patient's Medical Home practices in Canada	Aimun Qadeer Shah
74	Comparative effectiveness of internet-based psychotherapies for management of chronic non-cancer pain: a network meta-analysis of randomized controlled trials	Shiva Shahabi
75	Sepsis Policy, Guidelines, and Standards in Canada: A Scoping Review	Fatima Sheikh
76	Mitochondrial DNA Copy Number is Associated with Development of Kidney Failure	Pukhraj Singh Gaheer
77	Research transparency in 59 fields of medical and health sciences: A meta-research study	Ahmad Sofi-Mahmudi
78	Building an international research program: COVID-19 Policies & Epidemiology Working Group	Sabrina Sorbara
79	Factors associated with chronic pain among Canadian veterans: Insights from the Life After Service Study and Canadian Longitudinal Study on Aging	Jhalok Ronjan Talukdar
80	Developing eCurriculum and Online Assessment for the Health Professions: Clinical Pharmacology for Medical Students	Victoria Telford
81	An Investigation of DivErgent Thinking Among Surgeons and Surgeon Trainees (IDEAS): A Cross-Sectional Survey	Alex Thabane
82	Communication of Medical and Sociodemographic Information in Managing Patients with High Emergency Department Utilization	Sydney Tomlinson
83	Instruments for Measuring Financial Well-being Among Veterans: A Systematic Review	Kian Torabiardakani
84	Frameworks for adaptation of health guidelines: an update of a systematic survey	Kian Torabiardakani
85	Association between privatization of elective surgeries in publicly funded system: a systematic review of wait times, health outcomes, and costs	Clement Li
86	Multi-omic Assessment of GRP78 as a Mediator of Chronic Kidney Disease	Nikhil Uppal
87	Psychometric properties, feasibility and usefulness of the extended EQ-5D-Y-5L in children with prevalent disease conditions in Ethiopia	Arsema Yetbarek
88	Student-partnered curriculum development: A case study for a graduate health informatics program	Stephanie Zahorka Derka
89	Natural language processing with machine learning for the summarization and information extraction of clinical practice-ready literature: Preliminary result of a qualitative systematic review	Fangwen Zhou
90	Use of Minimal Important Difference (MID) for Patient-Reported Outcome Measures (PROMs) in Plastic Surgery Randomized Controlled Trials: A Systematic Review	Ted Zhou



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PLENARY SESSION I – EAST BALLROOM

9:15 AM - 10:00 AM

Opportunities & Challenges in Planetary Health:
A Look into How Partnerships can Mobilize Sustainable
Practices in Health systems

Dr. Myles Sergeant and ***Dr. Sujane Kandasamy***

Moderator: ***Dr. Laura Anderson***

PLENARY SESSION II – EAST BALLROOM

3:00 PM - 3:45 PM

Advancing equity, diversity, and inclusion
in health research

Dr. Lawrence Mbuagbaw

Moderator: ***Dr. Andrea Darzi***