



Annual Report 2017 | 2018



CHÉOS

Centre for Health Evaluation
& Outcome Sciences



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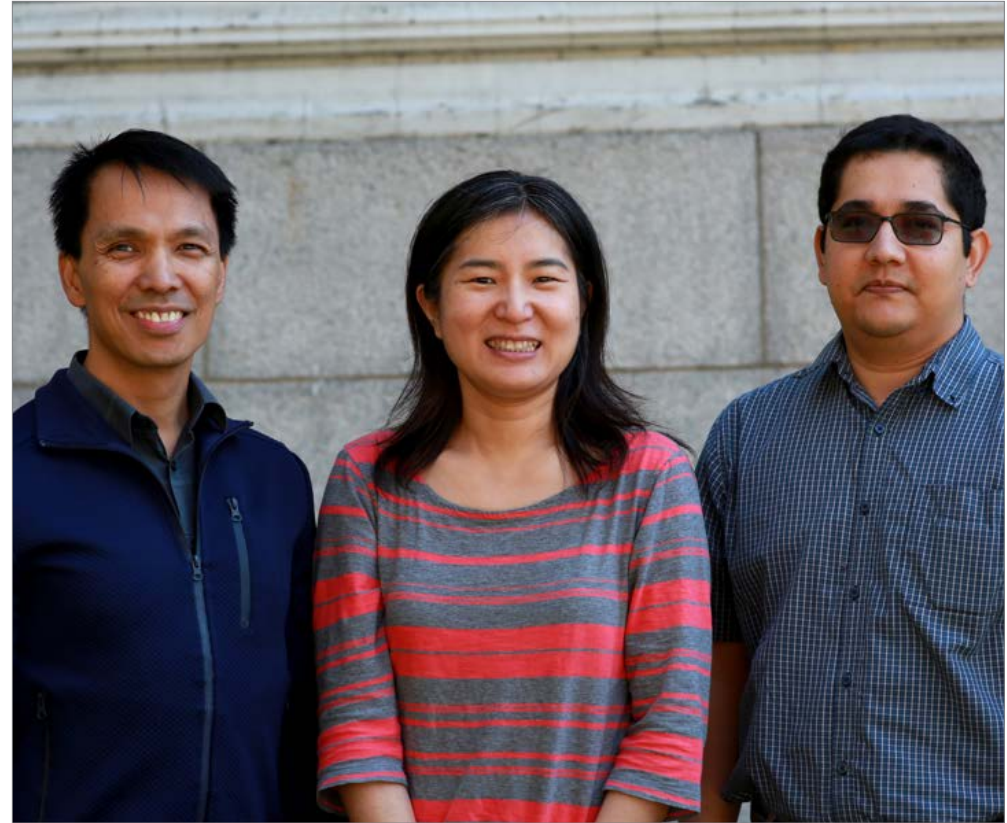
CHÉOS Top Stories

4/20 Car Crash Correlation



A small study co-authored by CHÉOS' Dr. John Staples received significant media attention. Published in *JAMA Internal Medicine*, the study analyzed 25 consecutive years of fatal motor vehicle accident data in the U.S. and looked at crash rates on April 20 after 4:20 P.M., the date and time of an annual cannabis celebration. Analysis revealed that there was a 12% increase in risk of fatal crash on 4/20 compared to the same time period one week before and one week after that date. In those under the age of 21 the increased risk was 38%. Dr. Staples and his co-author concluded that policy makers should consider the risks of drugged driving while liberalizing marijuana laws and consider driving-related strategies in regulation and enforcement. With the federal government's plan to legalize marijuana in late 2018, there was considerable media coverage of this study. The findings appeared in stories from over 130 news outlets, including *The New York Times*, *The Globe and Mail*, and *TIME Magazine*.

Appointments & Promotions



Four CHÉOS Scientists were officially appointed to faculty positions at the University of British Columbia School of Population and Public Health (SPPH) in August of 2017. Drs. Caren Rose, Ehsan Karim (pictured right), Joseph Puyat (left), and Wei Zhang (centre) were all confirmed as Assistant Professors in August. Drs. Rose, Karim, and Puyat are in the Division of Epidemiology, Biostatistics and Public Health Practice. Dr. Zhang is in the Health Services and Policy Division. All four were appointed as Scientists at CHÉOS prior to the SPPH announcement. At CHÉOS, Dr. Rose is an epidemiologist, Dr. Karim is a biostatistician, Dr. Puyat is a research methodologist, and Dr. Zhang is a health economist. Dr. Zhang also completed her post-doctoral fellowship at CHÉOS prior to her appointment at SPPH. Finally, Dr. Nick Bansback was promoted from Assistant to Associate Professor at SPPH in the fall of 2017. Dr. Bansback, who was originally appointed as a SPPH faculty member in 2012, is in the Health Services and Policy Division.

Injectables Save Money



The Study to Assess Long-term Opioid Maintenance Effectiveness (SALOME) randomized controlled trial produced three publications this year. One of these publications, led by CHÉOS' Dr. Nick Bansback and co-authored by, among others, Drs. Oviedo-Joekes, Krausz, Schechter, and Anis, was an economic analysis of SALOME and its predecessor, the North American Opiate Medication Initiative (NAOMI). SALOME originally found injectable hydromorphone, a licensed opioid also known as Dilaudid, to be as effective as diacetylmorphine (pharmaceutical heroin) for treatment of severe opioid use disorder in people who have not benefited from previous treatments, such as methadone or suboxone. This new analysis, published in *Addiction*, suggests that funding injectable hydromorphone could reduce mortality, increase quality of life, and save overall costs, compared to methadone alone. The study demonstrated that hydromorphone could save society \$140,000 per individual over a lifetime, with most savings occurring through reductions in the involvement in property and violent crime.

Scientists in the News



In February, the Heart and Stroke Foundation released their 2018 Report titled "Ms. Understood", describing the gaps in knowledge, prevention, and treatment of Canadian women's heart health compared to men. As a leading cardiovascular researcher in Canada, CHÉOS' Dr. Karin Humphries was quoted extensively in the document. Following its publication, she was interviewed by numerous media outlets about the findings and implications of the report. News stories featuring Dr. Humphries appeared in *CBC News*, *Global News*, *The Toronto Star*, and others. The report describes several factors that have contributed to the current state of inequity between sexes when it comes to heart health, including a lack of appropriate research — two thirds of participants in heart diseases clinical trials are men. Dr. Humphries also serves as the Scientific Director of the B.C. Centre for Improved Cardiovascular Health and holds the Heart and Stroke Foundation Professorship in Women's Cardiovascular Health.

CHÉOS Feature story

Dr. Skye Barbic: Measuring what it means to be mentally well

Dr. Skye Barbic's research is built around the concept of meaningful measurement: What is important to measure? How do we accurately measure seemingly ethereal concepts like mental health?

"The overall goal of my research is to improve mental health outcomes through evidence-based programs," she said. "Measurement and patient-centred assessment are an essential foundation for successful interventions and program development."

Dr. Barbic is involved in the development and expansion of the Foundry initiative, a provincial network of integrated health and social service centres for young people led by Dr. Steve Mathias. This year, her role was formalized as Research Lead, coinciding with the network's expansion to seven operational centres and the ongoing development of four more.

"In order to gain the core skillset that I needed in epidemiology and measurement, I had to step away from youth mental health for a time," she said. "But I always knew I wanted to return to being involved with young people. Working within the Foundry structure and team has been a clinical researcher's dream."

"At Foundry our goal is to identify the needs of young people and to support clinical innovation" she said. "We are developing and implementing an

approach to data collection that ensures valid and precise quantification of important outcomes, to use data to make changes as they are required, to inform health care decision making, and to fuel excellence within our centres."

Connected to her work with Foundry is Dr. Barbic's mentorship in the PHC Practice-based Research Challenge. This year, she mentored two teams based out of the Granville Foundry site.

"It's about introducing and building capacity for clinicians to be involved in research and to be proud of their contribution and impact" she said.

This year, Dr. Barbic travelled to Ottawa and globally with her work in mental health research.

"Much of my work has involved giving presentations and talking to people about how health outcomes, measurement, and data don't have to be daunting," she said. "It's rewarding when you see people excited about understanding new approaches to measurement and using this knowledge to effect change within their practice."

Dr. Barbic was recognized by the Centre for Addiction and Mental Health as one of the 150 Leading Canadians for Mental Health in 2017. She also received the prestigious Emerging Leader Award from the International Society of Quality

of Life (ISOQOL) where she is the Co-chair of the Education Committee and Mixed Methods Co-chair of the Special Interest Group.

"ISOQOL has provided a great avenue to become involved in and learn about measuring health outcomes that are not easily quantified and to understand the incredible power of patient-oriented research" she noted.

She was appointed by the former Minister of Health, Jane Philpott, as a member of the Mental Health Advisory Council in 2017, and was selected to serve on the Mental Health Commission of Canada's Emerging Adult Council and consulted with Health Canada on early suicide prevention and national immigration policies.

"My work is about reconceptualizing how we think about and accurately measure health outcomes," said Dr. Barbic. "Our health system was built around an antiquated definition of what it means to be healthy — we now need to view health as existing on a continuum and to shift our services to reflect that understanding."

Dr. Barbic is also involved with several new grants. She is the principal investigator of the Healthier by Doing project grant which is testing the effectiveness of youth-centred employment support for young adults with mental illness. She is also a network partner for FRAYME, a national Centre of Excellence that is focused on researching and supporting practice change for substance use and mental health care in youth across the country.

“We now need to view health as existing on a continuum and to shift our services to reflect that understanding.”

— Dr. Skye Barbic



Dr. Barbic (second from left) and CHÉOS' Dr. Steve Mathias (sixth from left) pose for a photo with Former Federal Health Minister Philpott (centre) and the Foundry team during her visit to the Granville site.

CHÉOS New Scientists



Dr. Sarah Munro

Dr. Munro joined CHÉOS in March of 2018. She is a qualitative health services researcher whose focus is on knowledge translation and implementation science. Dr. Munro works in tandem with patients, health care professionals, policy makers, and other stakeholders to produce relevant, action-oriented evidence that supports patients and their care teams to make informed, shared health care decisions.

Dr. Munro's current work involves implementation of patient-centred care in the area of reproductive and maternal health. One of her current projects is the My Next Birth decision tool. Although the majority of women in B.C. who have a C-section are able to safely deliver vaginally in subsequent births, only about one in five do so. In most cases, vaginal birth after a previous C-section is safer for both maternal and neonatal health. Designed with input from expert care providers, My Next Birth is an interactive online decision tool that provides women and families with the best and most current evidence to support healthy, informed care decisions.

The development of this decision tool is part of Dr. Munro's current appointment as a post-doctoral fellow with the University of British Columbia (UBC) Department of Family Practice and the Preference Laboratory at The Dartmouth Institute for Health Policy & Clinical Practice in New Hampshire. Her fellowship is supported by the Canadian Institutes of Health Research and a Trainee Award from the Michael Smith Foundation for Health Research. Dr. Munro is also an affiliate member of the Women's Health Research Institute and an affiliate trainee at the Centre for Clinical Epidemiology and Evaluation. CHÉOS' Dr. Nick Bansback was a member of her supervisory committee during her PhD studies.

CHÉOS Scientists

Aslam Anis, PhD, FCAHS
Najib Ayas, MD, MPH, FRCPC
Nick Bansback, PhD
Sean Barbour, MD, M.Sc., FRCPC
Skye Barbic, PhD, M.Sc., B.Sc(OT), B.Sc.
Monica Beaulieu, MD, FRCPC, MHA
Carl J. Brown, MD, M.Sc., FRCSC

Annalijn Conklin, PhD, MPH, M.Sc., B.Sc.
Geoffrey W. Cundiff, MD, FACOG,
FACS, FRCSC
Peter Dodek, MD, M.HSc.
Jim Frankish, PhD, MA
Anne Gadermann, PhD
Oron Frenkel, MD, MS

Josie Geller, PhD, R.Psych.
Jagbir Gill, MD, MPH, FRCPC
John Gill, MD, MS
Sabrina Gill, MD, MPH, FRCPC
Eric Grafstein, MD, FRCPC
Brian Grunau, MD, CCFP (EM)
Devin Harris, MD, CCFP (EM), FCFP, M.HSc.
Mark Harrison, PhD, M.Sc.

Karin Humphries, D.Sc., M.Sc., MBA
Garth Hunte, MD, PhD, FCFP
Shirin Kalyan, PhD
Ehsan Karim, PhD, M.Sc.
Nadia Khan, MD, M.Sc., FRCPC
Mieke Koehoorn, PhD
Michael Krausz, MD, PhD, FRCPC
Jane Lea, MD, FRCSC

Dr. Shirin Kalyan

Dr. Shirin Kalyan is an Assistant Professor in the Division of Endocrinology in the UBC Department of Medicine. She joined CHÉOS in the summer of 2018. After completing a PhD in experimental medicine at UBC, she was awarded a fellowship to conduct her research in Kiel, Germany. This was followed by a return to UBC in the Department of Medical Genetics and then her current professorship. Dr. Kalyan's research interests are in how immunity is impacted by commonly prescribed drug therapies and how immune function can be restored in the context of cancer and chronic inflammatory diseases.

Together with CHÉOS' Dr. Sabrina Gill, Dr. Kalyan is conducting clinical research for treatments of complex bone disorders. The two researchers recently collaborated in the development of the Metabolic Bone Clinic at St. Paul's Hospital where Dr. Kalyan serves as Research Director. The Clinic embeds a research program within a clinical setting, allowing for the optimization and individualization of treatments for complicated bone loss in people with underlying conditions. In her work at Vancouver General Hospital, Dr. Kalyan serves as a Co-Director for the Vancouver Centre of the Canadian Multicentre Osteoporosis Study, a prospective study involving over 9,000 Canadians that has been operating for over 20 years.

Dr. Kalyan is the Director of Scientific Innovation at Qu Biologics, a Vancouver-based biotech company working to develop treatments to restore innate immunity in those with compromised immune systems. To date, the company has completed three clinical trials in Crohn's disease, ulcerative colitis, and recurrent lung cancer. Dr. Kalyan is also affiliated with the Centre for Menstrual Cycle and Ovulation Research (CeMCOR), the Infection and Immunity Research Centre, and the Women's Health Research Institute.



Adeera Levin, MD, FRCPC
Linda Li, PhD, M.Sc., B.Sc. (PT)
Larry D. Lynd, PhD, BSP
Martha Mackay, PhD, RN CCN(C)
Steven Mathias, MD, FRCPC
Rita McCracken, MD, CCFP, PhD Candidate
Sarah Munro, PhD, Postdoctoral Fellow
Eugenia Oviedo-Joekes, PhD

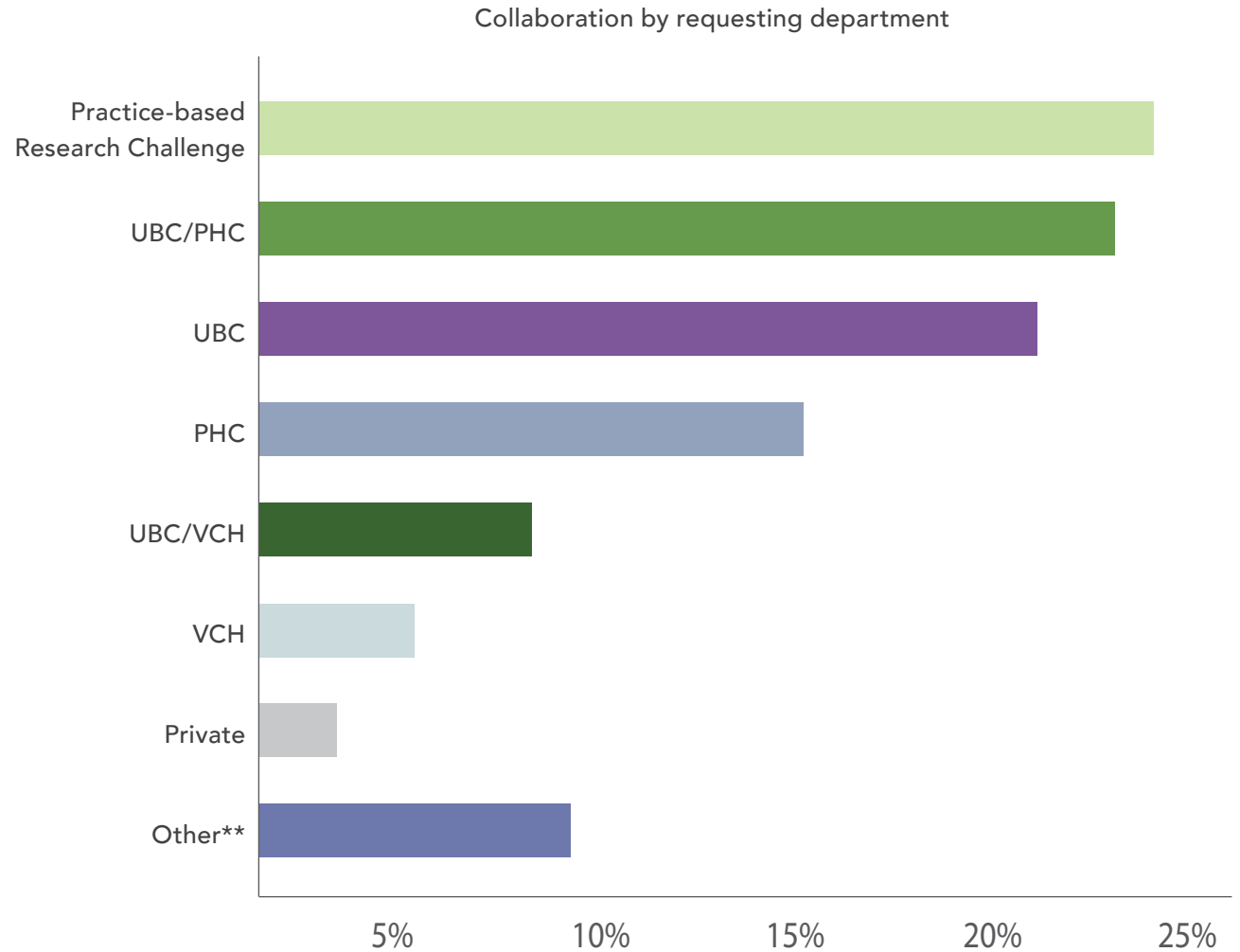
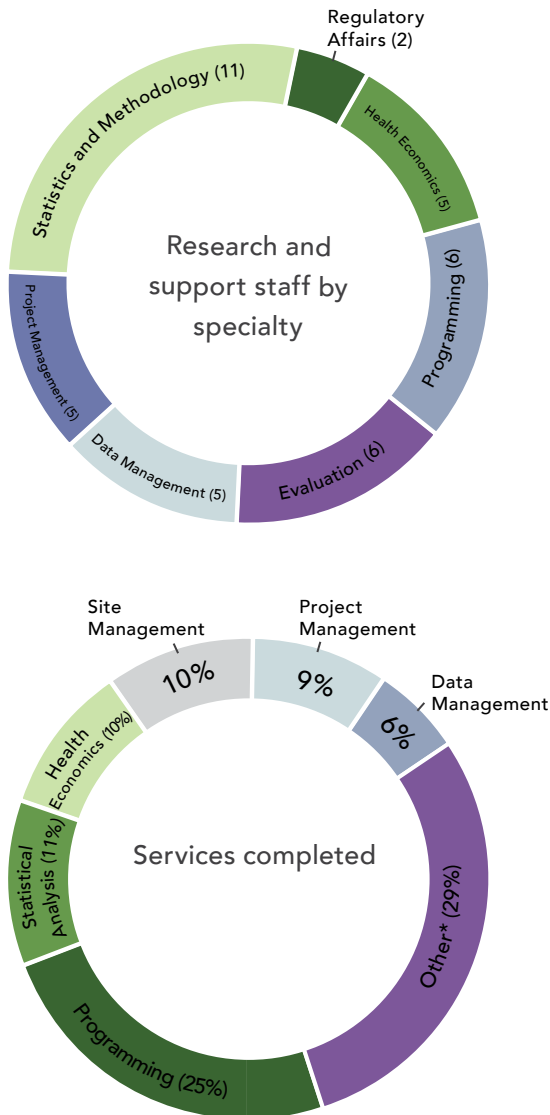
Anita Palepu, MD, MPH, FRCPC, FACP
P. Terry Phang, MD, M.Sc., FRCSC
Joseph Puyat, PhD, M.Sc., MA
Manoj Raval, MD, M.Sc., FRCSC
Caren Rose, PhD, M.Sc.
Chris G. Richardson, PhD, M.Sc., BA
Amy Salmon, PhD
Richard Sawatzky, PhD, RN

Martin T. Schechter, OBC, MD, PhD,
FRCPC, FRSC, FCAHS
Christian G. Schütz, MD, PhD, MPH, FRCPC
Kamran Shojanian, MD, FRCPC
Joel Singer, PhD
Beth Snow, PhD, MBA, CE
Patricia Spittal, PhD
John Staples, MD, FRCPC, MPH

Rob Stenstrom, MD, PhD, CCFP-EM
Verena Strehlau, MD
Jason Sutherland, PhD
Iris Torchalla, PhD, R. Psych.
Greg Werker, PhD
Brian Westerberg, MD, M.HSc., FRCSC
Hubert Wong, PhD, B.ASc.
Wei Zhang, MM, MA, PhD

CHÉOS Services

Our staff members provide research support services to a wide range of investigators and groups and assist with the development, conduct, and analysis of clinical trials and health outcomes studies — the majority of requests are received from within the UBC/PHC network. The breadth of research support activity at CHÉOS is demonstrated both by the variety of specialties within our organization and the yearly breakdown of services provided.



* Includes study design, randomization services, site monitoring, regulatory support, data entry & manipulation, and system design.

** Includes other BC health authorities, universities other than UBC (within and out of province), and government.

CHÉOS Projects & Collaborations

CHÉOS Scientists and Staff partner with other organizations and research groups. Below are some notable collaborations that took place this year:

Continuity across transitions in care: What do older adults tell us?

In November, CHÉOS co-hosted an event with several organizations about collecting information directly from patients and their families with the aim of improving overall quality of care in seniors transitioning from one care setting to another. The event was led by CHÉOS' Dr. Rick Sawatzky and featured B.C.'s Seniors Advocate and a keynote presentation from the CEO of the Picker Institute of Europe, a non-profit patient-centred health care organization.

BC SUPPORT Unit Webinars

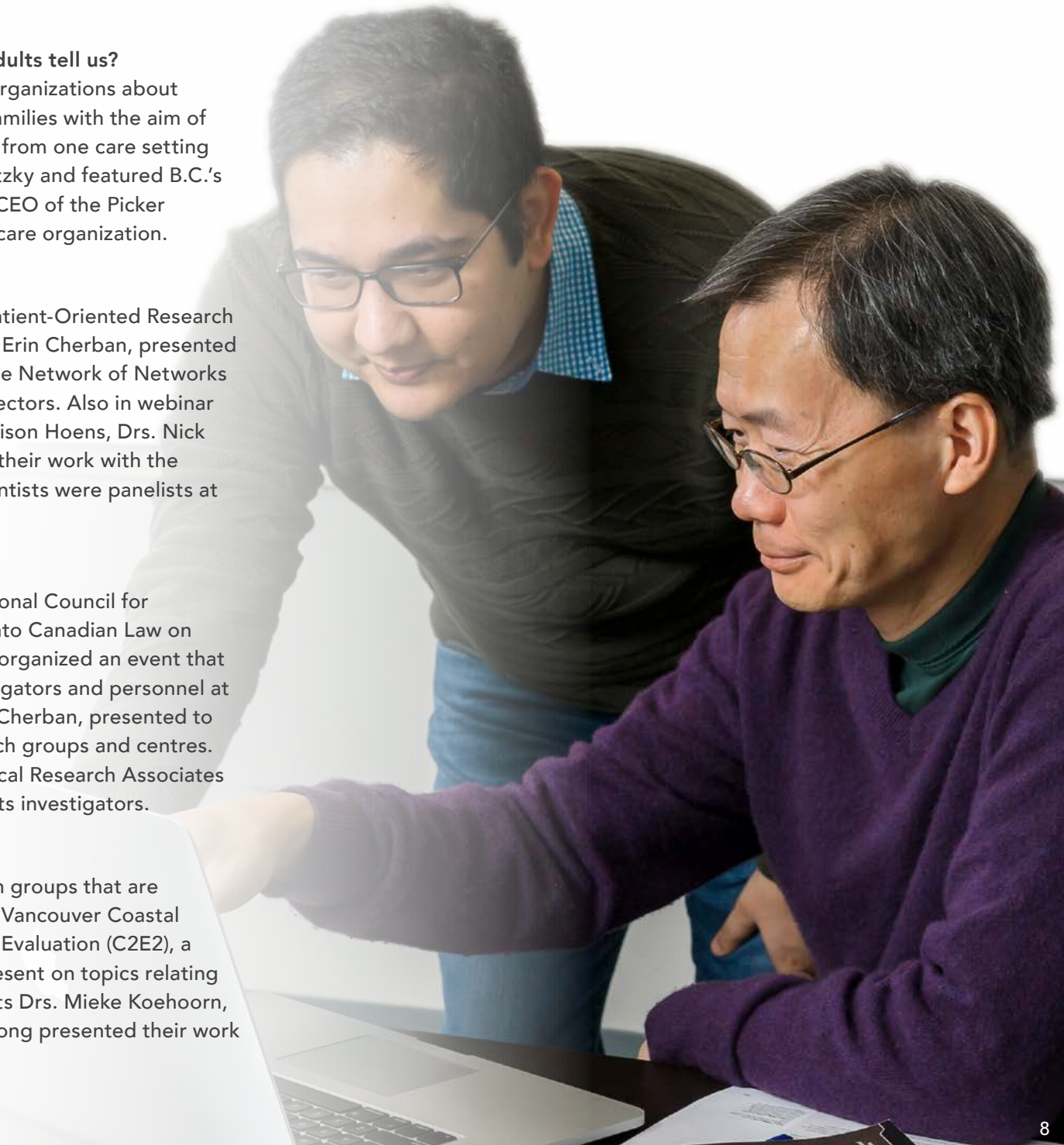
Hosted by the BC SUPPORT (SUpport for People and Patient-Oriented Research and Trials) Unit, CHÉOS' Chief Clinical Research Officer, Erin Cherban, presented in a live webinar about the benefits of membership in the Network of Networks (N2), where she serves as Secretary on the Board of Directors. Also in webinar format and supported by CHÉOS Research Associate Alison Hoens, Drs. Nick Bansback, Hubert Wong, and Linda Li presented about their work with the SUPPORT Unit as Methods Cluster Leads. All three Scientists were panelists at the inaugural BC SUPPORT Unit Provincial Conference.

Change is Opportunity!

Health Canada adopted the first update to the International Council for Harmonisation (ICH) Good Clinical Practice guidelines into Canadian Law on April 1, 2018. In preparation for these changes, CHÉOS organized an event that focused on how the regulatory shift would affect investigators and personnel at PHC sites. CHÉOS' Chief Clinical Research Officer, Erin Cherban, presented to researchers and support staff from across PHC's research groups and centres. Ms. Cherban also presented at the 2017 Society of Clinical Research Associates (SOCRA) Annual Conference about how CHÉOS supports investigators.

Rounds and Rounds

Many CHÉOS Scientists are involved with other research groups that are affiliated with the University of British Columbia or with Vancouver Coastal Health (VCH). The Centre for Clinical Epidemiology and Evaluation (C2E2), a VCH centre, holds regular rounds where researchers present on topics relating to health policy and practice. This year, CHÉOS Scientists Drs. Mieke Koehoorn, Sarah Munro, Rick Sawatzky, Joel Singer, and Hubert Wong presented their work at C2E2.



CHÉOS Work in Progress Seminar Series



- April 12 **Ehsan Karim***: Automated confounding control in comparative effectiveness research: Help or hype?
- April 26 **Kam Shojania***: Early arthritis triage strategy for BC: Seeking your input
- May 10 **Emily Ross**: Text messaging to support cardiovascular disease patients post-discharge: The Txt2Prevent Study
- May 24 **Jennifer Kryworuchko**: Evaluation of a novel cardio-pulmonary resuscitation (CPR) video decision aid
- June 7 **Caren Rose***: How do we decide? Developing criteria to inform allocation of deceased donor kidneys for transplantation
- September 27 **Beth Snow***: Implications of complexity thinking on planning an evaluation of the Clinical & Systems Transformation project
- October 11 **Shirin Kalyan***: Immune vulnerable populations and adverse effects of osteoporosis therapies
- October 25 **Robin Cohen & Rick Sawatzky***: Measuring what's important to the quality of life of people with life-limiting illness: The ongoing development and use of the McGill Quality of Life Questionnaire
- November 8 **Sean Hardiman**: Coronary revascularization and timing of treatment: A PhD research plan
- November 22 **Nick Bansback***: Bringing patients back to the PROM
- December 6 **Amy Salmon***: Developmental evaluation as a tool for systems transformation: Lessons from Foundry
- January 17 **Peter Dodek***: Moving from moral distress to moral action in intensive care units
- January 31 **Joseph Puyat***: Creating an early psychosis integrated care pathway in an inpatient setting: Characterizing, standardizing and improving care
- February 14 **Karin Humphries***: Under-diagnosis and under-treatment of women with CAD: Is hs-cTn a means to an end?
- February 28 **David Whitehurst**: Considerations for a broader framework in economic evaluation: A focus on outcome measurement
- March 14 **Sarah Munro***: My Next Birth: Using knowledge translation to optimize patient care for next birth after caesarean
- March 28 **Martha Mackay***: Racial-identity-based differences in emergency department care of patients

* CHÉOS Scientist

CHÉOS Awards & People

Dr. Brian Grunau received the Young Investigator Award during the American Heart Association Resuscitation Sciences Symposium. The American Society of Transplantation presented Dr. John Gill with the 2017 Established Investigator Award.

Dr. Mark Harrison was among the twenty recipients of the 2017 Scholar Awards from the Michael Smith Foundation for Health Research. Dr. Linda Li received the Knowledge Translation in Research Award from the Arthritis Alliance of Canada.

Dr. Skye Barbic received the International Society for Quality of Life's Emerging Leader Award and was recognized as being among the Centre for Addiction and Mental Health's 150 Difference Makers.

Dr. Verena Strehlau received two awards from the UBC Department of Psychiatry: the Postgraduate Psychotherapy Award and the CANMED Award. Dr. Martha Mackay received the Katherine M. MacMillan Nursing Research Scholar Award from the UBC Faculty of Nursing.

A number of CHÉOS Scientists received awards from UBC's Faculty of Medicine. Dr. Adeera Levin was awarded the Martin M. Hoffman Award for Research Excellence. Dr. Patricia Spittal received awards for Excellence in Service to the University and Community and Distinguished Achievement for Overall Excellence. Dr. Kamran Shojania received the 2017 Fay R. Dirks Award for Teaching Excellence. Dr. Steve Mathias received the Clinical Faculty Award for Excellence in Community Practice and Dr. Anita Palepu was the inaugural recipient of the Graydon Meneilly Award for Excellence in Mentoring.

CHÉOS Research Associates also received awards from UBC's Faculty of Medicine: the Canadian Physiotherapy Association honoured Alison Hoens with the Enid Graham Memorial Lecture Award and Aggie Black received the Sigma Theta Tau International Evidence-Based Practice Award on behalf of the team responsible for PHC's Practice-based Research Challenge.



The UBC School of Population and Public Health's Dr. Cortlandt J.G. Mackenzie Prize for Excellence in Teaching was presented to Drs. Mieke Koehoorn and Eugenia Oviedo-Joekes.

Staff Updates

New staff:

Levon Ambartsoumian
Rahaf Assil
Glenyth Caragata
Renee Cormier
Aidan Dennis
Sameer Desai
Sarane Fernando

Sarah James
Garricia Lee
Eisha Lehal
Rebecca Metcalfe
Judy Needham
Verena Rossa
Nicole Shum
Marlee Vinegar

Staff departures:

Jaafar Aghajanian
Victoria Alcuaz
Shirley Chai
Anton Friedman
Pinky Hapsari
Brad Harker
Stephanie Harvard

Kate Jongbloed
Raymond Khanano
Kay Kuang
Katie Milbers
Janice Palmer
Margo Pearce
Matthew Quenneville

Vassi Sharlandjjeva
Richa Sharma
Claire Song
Sharon Springer
Victoria Thomas
David Zamar
Joanne Zhou

CHÉOS Top Publications

Below is an alphabetized list of the **top 30 CHÉOS publications** according to the rating of the journal in which they appear. Journals were ranked using SCImago Journal Rank (SJR), a measure that accounts for both the number of citations received by the journal and the importance of journals where citations occur.

Note: case reports, editorials, responses, and letters to the editor are not included.

CHÉOS Staff are marked with an asterisk*. CHÉOS Research Associates are marked with a dagger†.

Ajaykumar A, Soudeyns H, Kakkar F, Brophy J, Bitnun A, Alimenti A, Albert AYK, Money DM, Côté HCF, CIHR Team in Cellular Aging and HIV Comorbidities in Women and Children (**J Singer**). Leukocyte telomere length at birth and during the early life of HIV-exposed uninfected children following in utero exposure to antiretrovirals. *J Infect Dis*. 2018 Feb;217(5):710-20.

Ayas NT, Drager LF, Morrell MJ, Polotsky VY. Update in sleep-disordered breathing 2016. *Am J Respir Crit Care Med*. 2017 Jun;195(12):1561-6.

Bansback N, Phibbs CS, Sun H*, O'Dell JR, Brophy M, Keystone EC, Leatherman S, Mikuls TR, **Anis AH**; CSP 551 RACAT Investigators. Triple therapy versus biologic therapy for active rheumatoid arthritis: A cost-effectiveness analysis. *Ann Intern Med*. 2017 Jul;167(1):8-16.

Bello AK, **Levin A**, Tonelli M, Okpechi IG, Feehally J, Harris D, Jindal K, Salako BL, Rateb A, Osman MA, Qarni B, Saad S, Lunney M, Wiebe N, Ye F, Johnson DW. Assessment of global kidney health care status. *JAMA*. 2017 May;317(18):1864-81.

Cheskes S, Schmicker RH, Rea T, Morrison LJ, **Grunau BE**, et al.; ROC Investigators. The association between AHA CPR quality guideline compliance and clinical outcomes from out-of-hospital cardiac arrest. *Resuscitation*. 2017 Jul;116:39-45.

Dominguez-Gil B, López-Fraga M, Muller E, **Gill JS**. The key role of health professionals in preventing and combating transplant-related crimes. *Kidney Int*. 2017 Dec;92(6):1299-302.

Garrison SR, Kolber MR, Korownyk CS, **McCracken RK**, Heran BS, Allan GM. Blood pressure targets for hypertension in older adults. *Cochrane Database Syst Rev*. 2017 Aug;8:CD011575.

Gill J, Joffres Y, **Rose C**, Lesage J, Landsberg D, Kadatz M, **Gill JS**. The change in living kidney donation in women and men in the United States (2005–2015): A population-based analysis. *J Am Soc Nephrol*. 2018 Apr;29(4):1301-8. Epub 2018 Mar 8.

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Gill J, **Rose C**, Joffres Y, Kadatz M, **Gill JS**. Cold ischemia time up to 16 hours has little impact on living donor kidney transplant outcomes in the era of kidney paired donation. *Kidney Int*. 2017 Aug;92(2):490-6.

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Guo Y, Zhang H, Qian H*, Wilson DR, **Wong H**, Barber M, Forster BB, Esdaile J, Cibere J; IMPAKT-HIP Team (**Li LC**). The association of femoroacetabular impingement and delayed gadolinium enhanced MRI of cartilage (DGEMRIC): A population-based study. *Arthritis Care Res*. 2017 Nov 7 epub ahead of print.

Humphries KH, Izadnegahdar M, Sedlak T, Saw J, Johnston N, Schenck-Gustafsson K, Shah RU, Regitz-Zagrosek V, Grewal J, Vaccarino V, Wei J, Bairey Merz CN. Sex differences in cardiovascular disease—Impact on care and outcomes. *Front Neuroendocrinol*. 2017 Jul;46:46-70.

Kawano T, **Grunau BE**, Scheuermeyer FX, Gibo K, Dick W, Fordyce CB, Dorian P, **Stenstrom R**, Straight R, Christenson J. Prehospital sodium bicarbonate use could worsen long term survival with favorable neurological recovery among patients with out-of-hospital cardiac arrest. *Resuscitation*. 2017 Oct;119:63-9.

Kovesdy CP, Matsushita K, Sang Y, Brunskill NJ, Carrero JJ, Chodick G, Hasegawa T, Heerspink HL, Hirayama A, Landman GWD, **Levin A**, Nitsch D, Wheeler DC, Coresh J, Hallan SI, Shalev V, Grams ME; CKD Prognosis Consortium. Serum potassium and adverse outcomes across the range of kidney function: A CKD Prognosis Consortium meta-analysis. *Eur Heart J*. 2018 May;4:449. Epub 2018 Mar 14.

Levin A, Tonelli M, Bonventre J, Coresh J, Donner JA. Global kidney health 2017 and beyond: A roadmap for closing gaps in care, research, and policy. *Lancet*. 2017 Oct;390(10105):1888-917.

Li LC, Shaw C, Lacaille D, Yacyshyn E, Jones CA, Koehn C, Hoens AM†, Geldman J, Sayre EC, Macdonald G, Leese J, **Bansback N**. Effects of a web-based patient decision aid on biologic and small molecule agents for rheumatoid arthritis, ANSWER-2: A proof-of-concept study. *Arthritis Care Res*. 2018 Mar;70(3):343-52.

Lv J, Zhang H, Wong MG, Jardine MJ, Hladunewich M, ...**Barbour SJ**, **Levin A**, et al.; TESTING Study Group. Effect of oral methylprednisolone on clinical outcomes in patients with IgA nephropathy: The TESTING randomized clinical trial. *JAMA*. 2017 Aug;318(5):432-42.

Marra CA, Harvard S*, Grubisic M, Galo J, Clarke A, Elliott S, **Lynd LD**. Consumer preferences for food allergen labeling. *Allergy Asthma Clin Immunol*. 2017 Apr;13(1):19.

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Noonan VK, Lyddiatt A, Ware P, Jaglal SB, Riopelle RJ, Bingham CO, Figueiredo S, **Sawatzky R**, Santana M, Bartlett SJ, Ahmed S. Montreal Accord on Patient-Reported Outcomes Use Series—Paper 3: Patient-reported outcomes can facilitate shared decision-making and guide self-management. *J Clin Epidemiol*. 2017 Sep;89:125-35.

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Reynolds JC, **Grunau BE**, Elmer J, Rittenberger JC, Sawyer KN, Kurz MC, Singer B, Proudfoot A, Callaway CW. Prevalence, natural history, and time-dependent outcomes of a multi-center North American cohort of out-of-hospital cardiac arrest extracorporeal CPR candidates. *Resuscitation*. 2017 Aug;117:24-31.

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Virk P, **Stenstrom R**, Doan Q. Reliability testing of the HEARTSMAP psychosocial assessment tool for multidisciplinary use and in diverse emergency settings. *Paediatr Child Health*. Epub 2018 Mar 6.

Vuurmans T, Er L, Sirker A, Djurdjev O, Simkus G, **Levin A**. Long-term patient and kidney survival after coronary artery bypass grafting, percutaneous coronary intervention, or medical therapy for patients with chronic kidney disease: A propensity-matched cohort study. *Coron Artery Dis*. 2018 Jan;29(1):8-16.

Wang HE, Prince DK, Drennan IR, **Grunau BE**, Carlbom D, et al. Post-resuscitation arterial oxygen and carbon dioxide and outcomes after out-of-hospital cardiac arrest. *Resuscitation*. 2017 Nov;120:113-8.

Wang L, Wang X, Lo A, **Raval MJ**, **Brown CJ**, Karimuddin A, **Phang PT**. Effects of radiation and surgery on function and quality of life (QOL) in rectal cancer patients. *Am J Surg*. 2018 May;215(5):863-6. Epub 2018 Jan 31.

Ware MA, Martel MO, Jovey R, Lynch ME, **Singer J**. A prospective observational multicentre study of problematic prescription cannabinoid use. *Psychopharmacology*. 2018 Feb;235(2):409-17.

White CA, Akbari A, Eckfeldt JH, Chakraborty D, McCudden C, ... **Gill JS**, et al. β -Trace protein assays: A comparison between nephelometric and ELISA methodologies. *Am J Kidney Dis*. 2017 Jun;69(6):866-8.

Wing KJ, Chapinal N, Coe MP, Daniels TR, Glazebrook M, Dryden P, Younger A, Penner MJ, **Sutherland JM**. Measuring the operative treatment effect in end-stage ankle arthritis: Are we asking the right questions? A COFAS multicenter study. *Foot Ankle Int*. 2017 Oct;38(10):1064-9.

Winstone TA, Levy RD, **Shojania K**, Murphy D, Churg A, Ryerson C. Organizing pneumonia in an adult with chronic recurrent noninfectious osteomyelitis: A case report and literature review. *Chest*. 2017 Aug;152(2):e21-4.

Wright AJ, **Rose C**, Toews M, Paquet M, Corsilli D, Le Cailhier J-F, **Gill JS**. An exception to the rule or a rule for the exception? The potential of using HIV-positive donors in Canada. *Transplantation*. 2017 Apr;101(4):671-4.

Wu X, **Sawatzky R**, Hopman W, Mayo N, Sajobi TT, et al. Latent variable mixture models to test for differential item functioning: A population-based analysis. *Health Qual Life Outcomes*. 2017 May 15;15(1):102.

Yatham LN, Sossi V, Ding Y-S, Vafai N, Arumugham SS, Dhanoa T, Lam RW, Bond DJ, **Puyat JH**. A positron emission tomography study of norepinephrine transporter occupancy and its correlation with symptom response in depressed patients treated with quetiapine XR. *Int J Neuropsychopharmacol*. 2018 Feb;21(2):108-13.

Yong M, Zaia E, **Westerberg B**, **Lea J**. Diagnosis of superior semicircular canal dehiscence in the presence of concomitant otosclerosis. *Otol Neurotol*. 2017 Sep;38(8):1071-5.

Zhang H, **Wong H**, Wu L. A mechanistic nonlinear model for censored and mismeasured covariates in longitudinal models, with application in AIDS studies. *Stat Med*. 2018 Jan;37(1):167-78.

Zhang L, Norena M*, **Gadermann AM**, Hubley AM, Russell LB*, Aubrey T, To MJ, Farrell S, Hwang SW, **Palepu A**. Concurrent disorder and health care utilization among homeless and vulnerably housed persons in Canada. *J Dual Diagn*. 2018 Jan-Mar;14(1):21-31.

CHÉOS Invited Presentations

Total Number of Invited Presentations: 127

Anis AH. "Leaving No One Behind: Building on the Strength of Indigenous Communities to Collectively Broaden the Response to HIV and HCV in Canada." CAHR 2017 Ancillary Event. Montreal, QC; Apr 6, 2017.

Bansback N. "Bringing Patients Back to the PROM." CHÉOS Work in Progress Seminar. Vancouver, BC; Nov 22, 2017.

Bansback N. "What Does Patient-Oriented Research Mean for Health Economics?" London School of Hygiene and Tropical Medicine Rounds. London, UK; Dec 14, 2017.

Bansback N. "An Individualized PROM-based Decision Aid for Total Knee Arthroplasty." EuroQol Meeting. Budapest, Hungary; Mar 6, 2018.

Barbic SP. "Measuring outcomes in psychosocial rehabilitation: Why we count on it." Fraser Health Psychosocial Rehabilitation Research Day. Surrey, BC; May 2017.

Barbic SP. "Supported Education and Employment as keys to Long-term health and recovery for youth with mental illness." Hope Center. North Vancouver, BC; May 2017.

Barbic SP. "Feel the Y-BEAT: Support for a novel intervention to support youth with mental illness seeking employment." Canadian Association for Supported Employment. Niagara Falls, ON; Jun 2017.

Barbic SP. "Development and Testing of the Canadian Personal Recovery Outcome Measure (C-PROM) for People with Mental Illness." European Network for Mental Health (ENMESH) Conference. Groningen, Netherlands; Oct 2017.

Barbic SP. "Occupational Therapy as Recovery Leaders." 2017 Alberta Health Services Occupational Therapy Recovery Conference. Edmonton, AB; Oct 2017.

Barbic SP. "Capturing Outcomes That Are Important to My Patients and Making it Count." 2017 Vancouver Coastal Health, Robert Ho Allied Health Education Day. Vancouver, BC; Nov 2017.

Barbic SP. "We are all Mental Health Professionals." 2017 Vancouver Coastal Health, Robert Ho Allied Health Education Day. Vancouver, BC; Nov 2017.

Barbic SP. "Development and Testing of the Canadian Personal Recovery Outcome Measure (C-PROM) for People with Mental Illness." Webinar for the Quebec Ministry of Health. Quebec, QC; Dec 2017.

Barbic SP. "Why Recovery-Oriented Outcomes Have Not Mattered in Mental Health and Why They Should." Vancouver-Burnaby Canadian Mental Health Association Annual General Meeting. New Westminster, BC; Dec 2017.

Barbic SP. "A Hypothetical Health Care System Designed by Thurstone, Rasch & Latour: Using Measurement to Improve Quality, Accountability, and Accessibility of Health Care." 7th International Rasch Meeting. Perth, Australia; Jan 2018.

Barbic SP. "Measuring what matters in Occupational Therapy." Canadian Association for Occupational Therapy Webinar. Ottawa, ON; Feb 2018.

Barbic SP. "Outcomes that Count in Education and Health." Department of Occupational Science and Occupational Therapy Research Rounds. Vancouver, BC; Mar 2018.

Barbour SJ. "IgA Nephropathy: The Need to Update Guidelines." KDIGO Controversies Conference on GN. Singapore; Nov 2017.

Barbour SJ. "Risk Prediction Modeling in IgA Nephropathy." International IgA Network. New Orleans, LA; Nov 2017.

Barbour SJ. "Derivation and Validation of an International Risk Prediction Model in IgA Nephropathy." UBC Division of Nephrology Research Day. Vancouver, BC; Sep 18.

Barbour SJ. "The BC GN Network." Kidney Foundation of Canada KRESCENT meeting. Montreal, QC; May 2017.

Conklin A. "Persistent Hardship and Long-term Weight Gain in the Whitehall II study: Reconsidering Economic Determinants and the Role of Health Behaviours."

Food Nutrition & Health Graduate Mini-Conference, UBC Faculty of Land and Food Systems. Vancouver, BC; Apr 7, 2017.

Cundiff GW. "When is Sacral Colpopexy the Gold Standard?" Congresso Nacional de Urologia Ginecologica. Mazatlan, SN, Mexico; May 18, 2017.

Cundiff GW. "Mentorship in Urogynecology." Congresso Nacional de Urologia Ginecologica. Mazatlan, SN, Mexico; May 19, 2017.

Cundiff GW. "What is the Moral of the Mesh Story?" International Urogynecological Association 42nd Annual Meeting. Vancouver, BC; Jun 23, 2017.

Cundiff GW. "Surgical Education: Balancing the Needs of Patients and Learners." Canadian Society for the Advancement of Gynaecologic Excellence 2nd Annual Meeting. Montreal, QC; Sep 14-17, 2017.

Cundiff GW. "Vaginal Approach to Apical Prolapse and Stress Urinary Incontinence." Advanced Workshop on Gynaecologic Laparoscopic Anatomy and Minimally Invasive Surgery. Vancouver, BC; Sep 29, 2017.

Cundiff GW. "Managing Apical Pelvic Organ Prolapse." D.A. Boyes Meeting. Vancouver, BC; Nov 2-3, 2017.

Dodek PM. "Moving from Moral Distress to Moral Integrity in ICU Personnel." Canadian Bioethics Society Conference. Montreal, QC; May 25, 2017.

Dodek PM. "A Mixed Methods Study of Moral Distress in Canadian Critical Care Physicians." Improving Compassion in Critical Care Conference. Gravenhurst, ON; May 27, 2017.

Dodek PM. "Moving from Moral Distress to Moral Integrity in ICU Personnel." Canadian Association of Critical Care Nurses, B.C. Chapter. Vancouver, BC; Jun 5, 2017.

Dodek PM. "Moving from Moral Distress to Moral Integrity in ICU Personnel." Summit on Burnout in ICU Professionals, Society of Critical Care Medicine. Chicago, IL; Dec 1, 2017.

Dodek PM. "Moving from Moral Distress to Moral Integrity in ICU Personnel." Richmond Hospital Critical Care Leadership Education Day. Richmond, BC; Nov 24, 2017.

Dodek PM. "Moving from Moral Distress to Moral Integrity in ICU Personnel." St. Paul's Hospital Critical Care Education Day. Richmond, BC; Dec 5, 2017.

Dodek PM. "Moving from Moral Distress to Moral Action in ICU Personnel." City-wide Ethics Rounds, Richmond Hospital. Richmond, BC; Mar 16, 2018.

Gill J. "Canadian Organ Replacement Register Update." CST Kidney Working Group. Halifax, NS; Sep 26-29, 2017.

Gill JS. "Visiting Professor." Northwestern University Chicago. Chicago, IL; May, 2017.

Gill JS. "Declaration of Istanbul Update." American Society of Histocompatibility and Immunogenetics 43rd Annual Meeting. San Francisco, CA; Sep, 2017.

Gill JS. UBC Division of Nephrology Research Day. Vancouver, BC; Sep 18, 2017.

Gill JS. "Update in Immunosuppression." University of Minnesota. Minneapolis, MN; Oct, 2017.

Gill JS. "Recipient Evaluation and Waitlist Management." American Society of Nephrology Kidney Week 2017. New Orleans, LA; Oct 31, 2017.

Gill JS. "Cardiovascular Evaluation Prior to Transplantation." American Society of Nephrology Kidney Week 2017. New Orleans, LA; Nov 1, 2017.

Gill JS. "Provincial Nephrology Grant Rounds." UBC Division of Nephrology. Nov 17, 2017.

Grunau BE. "ECPR for Out-of-Hospital Cardiac Arrest: Potential Benefit, Risk of Harm, and the Future." University of Washington Medical Center/Harborview Medical Center for Pre-hospital Emergency Care Resuscitation Rounds. Seattle, WA; Mar 27, 2018.

Grunau BE. "The Vancouver ECPR Protocol for Out-of-Hospital Cardiac Arrest at St. Paul's Hospital: Experience, Challenges, and the Future." Providence Health Care Department of Anesthesiology, Perioperative Medicine and Pain Management Grand Rounds. Vancouver, BC; Winter, 2018.

Grunau BE. "Prehospital Cardiac Arrest Resuscitation: The New and the Old." British Columbia Emergency Health Services Conference: Bridging the Gap Between EMS and Research. Vancouver, BC; Fall, 2017.

Grunau BE. "Pit Crew ECPR - The Vancouver BC Approach." Extending Treatment with ECPR Symposium. Bellevue, WA; Oct 19, 2017

Grunau BE. "Load & Go vs. Stay & Play in a World with ECPR." Extending Treatment with ECPR Symposium. Bellevue, WA; Oct 19, 2017

Grunau BE. "Can We Predict the Future? The Perils of Prognostication in Out-of-Hospital Cardiac Arrest Resuscitations." CHÉOS Work in Progress Seminar. Vancouver, BC; Mar 29, 2017.

Harrison M. "Preventing Rheumatoid Arthritis (Pre-RA): Preferences of Potential Recipients & Health Care Professionals for Preventative Treatment." University of California San Francisco. San Francisco, CA; Mar 15, 2018.

Harrison M. "Preventive Treatment for Rheumatoid Arthritis: Are We Looking in the Right Direction?" Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford. Oxford, UK; Jan 12, 2018.

Harrison M. "What are the Impacts of Billing Codes for Nurse Management of Complex Rheumatic Diseases in British Columbia? Let's Talk About It..." Knowledge Exchange, British Columbia Ministry of Health. Victoria, BC; Jul 27, 2017.

Humphries KH. "Sex Differences in High-Sensitivity Cardiac Troponin Levels: Stepped Wedge RCT To Evaluate Impact on Outcomes." HLI Seminar Series, St. Paul's Hospital. Vancouver, BC; Sep 29, 2017.

Humphries KH. "Update on Policies in Research Related to Women and Heart Disease." Heart & Stroke Development Summit. Vancouver, BC; Nov 23, 2017.

Humphries KH. "Under-Diagnosis and Under-Treatment of Women with CAD. Is hs-cTn a Means to an End?" CHÉOS Work in Progress Seminar, St. Paul's Hospital. Vancouver, BC; Feb 14, 2018.

Humphries KH. "Women's Heart & Brain Health Inequities." Heart & Stroke's MLA Breakfast. Victoria, BC; Feb 27, 2018.

Hunte GS. "Ethics in Improvement Science." Clinician Quality Academy, BC Patient Safety and Quality Council. Vancouver, BC; 2018.

Hunte GS. "Risk and Resilience." Annual Inspectors Conference, Ministry of Mines. Victoria, BC; 2018.

Hunte GS. "Educating for Everyday Practice: Simulation for Adaptive Expertise and Resilient Performance." Patient Safety Webinar, Society for Simulation in Healthcare. 2018.

Hunte GS. "Creating Foresight: Promise and Pitfalls." Creating Foresight: Emergent Views on Risk and Resilience, University of British Columbia. Vancouver, BC; Aug, 2017.

Kalyan S. "The Complex Dance Between Immune Function and Bone Health: Why Care is Needed When Treating Bone Loss in Immune Vulnerable Populations." Department of Medicine, Grand Round, Vancouver General Hospital. Vancouver, BC; Dec 7, 2017.

Kalyan S. "Immune Vulnerable Populations and Adverse Effects of Osteoporosis Therapies." CHÉOS Work in Progress Seminar, St. Paul's Hospital. Vancouver, BC; Oct 15, 2017.

Kalyan S, Gill S. "Complicated Problem of Treating Bone Loss in the Context of Cystic Fibrosis." Cystic Fibrosis Clinic, St. Paul's Hospital. Vancouver, BC; May 5, 2017.

Karim ME. "Statistical Learning Approaches and Health Administrative Data." Workshop on Big Data and Depression Care, St. Paul's Hospital. Vancouver, BC; 2018.

Karim ME. "Estimating Inverse Probability Weights using Super Learner when Weight-Model Specification is Unknown in a Marginal Structural Cox Model Context: An Application to Multiple Sclerosis",

International Society for Clinical Biostatistics (ISCB), Annual Conference. Vigo, Spain; Jul 9-13, 2017.

Karim ME. "Marginal Structural Models in Multiple Sclerosis: Recent Developments and Suitable Alternatives." Biogen Symposium on Statistical Methods in Multiple Sclerosis. Cambridge, MA. Nov 8-9, 2017.

Karim ME. "Application of Machine Learning Techniques to Improve Causal Inference in Observational Studies." Seminar at School of Population and Public Health. Vancouver, BC; Apr 21, 2017.

Karim ME. "Automated Confounding Control in Comparative Effectiveness Research: Help or Hype?" CHÉOS Work in Progress Seminar, St. Paul's Hospital. Vancouver, BC; Apr 12, 2017.

Maas ET, **Zhang W, Koehoorn M, McLeod CB.** "A Cost-Benefit Analysis of Gradual Return-to-Work for Workers with a Work-Related Musculoskeletal Disorder: A Methodological Protocol." Vancouver Health Economics Methodology (VANHEM) Meeting. Vancouver, BC; Jun 16, 2017.

Koehoorn M. "Does Gender Matter to Occupational Health and Safety?" Occupational and Environmental Health Seminar Series, University of British Columbia, Vancouver, BC; Sep 22, 2017.

Koehoorn M. "Using Linked Health Data for Policy Relevant Research on Work Disability." Ontario Research Policy and Action Forum, Centre for Research on Work Disability Policy. Toronto, ON; Nov 23-24, 2017.

Koehoorn M. "Investigating Gender Differences in Work Disability Duration." Research Day at WorkSafeBC. Richmond, BC; Sep 29, 2017.

Koehoorn M. "Gender and Sex Differences in Clinical Epidemiology and Evaluation. Implications for Policy and Practice." Centre for Clinical Epidemiology and Evaluation Invited Rounds Presentation. Vancouver, BC; Feb 5, 2018.

Levin A. "SGLT2 Inhibitors: Update and Importance for Nephrology." UBC Division of Nephrology Provincewide Rounds, St. Paul's Hospital, Vancouver, BC; Sept 15, 2017.

Levin A. "Precision Medicine: the Global Perspective." Groningen, Netherlands; Dec 15, 2017.

Levin A. "Global Burden of CKD: Implications for Public Policy and Advocacy." 17th Seminar 'Advances in Nephrology and Hypertension'. Katowice, Poland; Nov 23, 2017.

Levin A. "Predicting Progression of CKD: Current State of Art and Science." 17th Seminar 'Advances in Nephrology and Hypertension'. Katowice, Poland; Nov 23, 2017.

Levin A. "CanSolve CKD: A Patient Oriented Research Network to Transform Kidney Care in Canada." BC SPOR SUPPORT Unit Conference. Vancouver, BC; Nov 9, 2017.

Levin A. "CanPredict: Insights Regarding Biomarkers in CKD." UBC Division of Nephrology Research Day. Vancouver, BC; Sep 18, 2017.

Levin A. "Improving Global Kidney Health: The ISN Initiatives and Global Kidney Health Atlas." Hydration for Health 9th Annual Scientific Conference. Geneva, Switzerland; Jul 5, 2017.

Levin A. "Opportunities and Challenges to Improve Outcomes in CKD Around the World." UK Kidney Week. Liverpool, UK; Jun 20, 2017.

Levin A. "CanSolve CKD Network." Horizons 2022 Workshop. Toronto, ON; May 12, 2017.

Levin A. "Challenges and Opportunities in CT in Nephrology Worldwide." World Congress of Nephrology. Mexico City, Mexico; Apr 23, 2017.

Levin A. "Closing the Gaps, Closing the Circle: ISN Long-term Commitment to the Full Spectrum of Kidney Diseases in Every Corner of the World." World Congress of Nephrology. Mexico City, Mexico; Apr 24, 2017.

Levin A. "ISN: Global Outreach." World Congress of Nephrology Satellite Symposium on Kidney Disease in Disadvantaged Populations. Santiago de Queretaro, Mexico; Apr 25, 2017.

Levin A. "Can-SOLVE CKD: A Patient-Oriented Research Network to Transform Kidney Care in Canada." Fraser Health Research. Vancouver, BC; Jun 14, 2017.

Li LC. "Integration of Apps and Wearables in Arthritis Management." Canadian Rheumatology Association Annual Scientific Meeting. Vancouver, BC; Feb 22, 2018.

Li LC. "Arthritis Care in the Digital Age: The Patient Can See You Now." Canadian Rheumatology Association Annual Scientific Meeting. Vancouver, BC; Feb 21, 2018.

Li LC. "Improving Patient-Centred Care in Rheumatoid Arthritis." BC Ministry of Health Knowledge Exchange Research Rounds. Victoria, BC; May 16, 2017.

Li LC. "Can Physical Activity Monitoring Tools Support People with Chronic Pain to be Physically Active?" Symposium: "Exercise as a non-pharmacological approach to the management of chronic pain." Society of Behavioral Medicine Meeting. San Diego, CA; Apr 1, 2017.

Lynd LD. "Using Big Data to Inform Practice, Policy, and Research — A Canadian Experience." 2017 Drug Utilization Research Conference. Rio de Janeiro, Brazil; Sep, 2017.

Lynd LD. "Prescription to Over-the-Counter: Potential Unintended Consequences." Healthy Canada Conference 2017: Access to Affordable Medicines. Toronto, ON; Apr 26, 2017.

Lynd LD. "Developing a Canadian Framework for Evaluation and Decision-Making for Rare Diseases." Delivering Innovation: a Moon Shot for Rare Disorders and Beyond. Toronto, ON; Nov 6-7, 2017.

Mackay MH. "Racial-Identity-Based Differences in Emergency Department Care of Patients with Suspected Acute Coronary Syndrome." CHÉOS Work in Progress Seminar. Vancouver, BC; Mar 28, 2018.

Munro S, Renner R. "Workshop: Medical Abortion; Mifepristone Clinical Review and Canadian Abortion Providers Support (CAPS) Community." Society of Obstetricians and Gynecologists of Canada Western/Central CME. Banff, AB; Mar 17, 2018.

Munro S. "My Next Birth: Using knowledge Translation to Optimize Care for Next Birth After Caesarean." CHÉOS Work in Progress Seminar, St. Paul's Hospital. Vancouver, BC; Mar 14, 2018.

Norman W, **Munro S.** "Mifepristone Implementation in Canada: Current Progress and Challenges Ahead." 5th BC Women's Hospital and Contraception Access Research Team Meeting. Vancouver, BC; Mar 9, 2018.

Oviedo-Joekes E. "How Can Injectable Hydromorphone and Diacetylmorphine (i.e. heroin) be Used to Treat Opioid Use Disorder?" Opioid Overdose Prevention and Naloxone Access working group, Toronto Drug Strategy Secretariat, Toronto Public Health webinar. Nov 22, 2017.

Oviedo-Joekes E. "Research and Clinical care in the supervised model of care with injectable opioids in Canada." Drug Policy Alliance International Conference in Heroin Assisted Treatment. Vancouver, BC; Jun 29-30, 2017.

Palepu A. Presented on Systematic Review Articles. 2017 ACP Annual Internal Medicine Meeting session: Annals Articles That Can Change Your Practice. San Diego, CA; Mar 30, 2017.

Phang PT. "Large Bowel Obstruction: The Evidence." Gordon Lecture, McGill University. Montreal, QC; May 2017.

Phang PT. "Difficult Colon Polypectomy." BC SON colorectal update. Vancouver, BC; Oct, 2017.

Phang PT. "Intracorporeal Colon Anastomosis." National Patient Safety Agency. Vancouver, BC; Nov 2017.

Phang PT. "Common Anorectal Conditions." UBC Family Practice Review. Vancouver, BC; Feb 2018.

Puyat JH. "Mental Illness Surveillance." School of Population and Public Health, UBC. Vancouver, BC; Feb 14, 2018.

Puyat JH, Azarbar A, Kamieniecki R, Mihic T. "Creating an Early Psychosis Integrated Care Pathway in an Inpatient Psychiatric Setting: Characterizing, Standardizing and Improving Care." CHÉOS Work in Progress Seminar. Vancouver, BC; Jan 31, 2018.

Puyat JH. "Using Big Data Analytics to Close the Gap in Depression Care." 2017 Western Canadian Universities Big Data Health Conference. Banff, AB; Sep 28-29, 2017.

Puyat JH. "Mental Illness Surveillance." School of Population and Public Health, UBC. Vancouver, BC; Jun 17, 2017.

Raval MJ. "Symposium on anorectal disease management for family doctors." St. Paul's Hospital CME Conference for Family Physicians. Vancouver, BC; Nov 2017.

Raval MJ. "Surgical Considerations for Colorectal Cancer." BC Cancer Agency Colorectal Cancer Forum for Patients. Vancouver, BC; Mar 2018.

Sawatzky R, Forde B. "Researching E-Health Applications for Integrating Person-Centered Assessments Into Healthcare Services: The Quality of Life Assessment and Practice Support." Keynote Day, Patients at the Center of Research, Fraser Health 12th Annual Research Week. Langley, BC; Jun 14, 2017.

Sawatzky R. "System (QPSS) Initiative." Keynote Day, Patients at the Center of Research, Fraser Health 12th Annual Research Week. Langley, BC; Jun 14, 2017.

Sawatzky R. "Using patient-reported data to improve patient-centered, value-based care: Examples of patient-centered measurement in British Columbia." Canadian Institute of Health Information Breakfast Session, National Health Leadership Conference. Vancouver, BC; Jun 12, 2017.

Schütz CG. "Psychiatrische Komorbidität und Stimulanzienkonsum (Psychiatric Comorbidity and Stimulant Use)." Interdisziplinärer Kongress für Suchtmedizin. Munich, Germany; Jul 1, 2017.

Schütz CG. "Improving treatment for individuals with severe dual diagnosis: available evidence, current treatment models, and new directions." WPA XVII World Congress of Psychiatry. Berlin, Germany; Oct 8-12, 2017.

Shojania K. "Biologics Update." UBC Orthopaedics Grand Rounds. Vancouver, BC; May 1, 2017.

Shojania K. "Cognitive Error." 28th Annual Best Science Medicine Conference. Vancouver, BC; Apr 7, 2017.

Stenstrom R. "Which patients with sepsis require blood cultures?" Canadian Association of Emergency Physicians Annual Meeting. Whistler, BC; Jun 3-7, 2017.

Sutherland JM. "Innovations in Funding Policy for Value-based Healthcare." Value-based Healthcare Summit, University of Toronto, Rotman School of Business. Toronto, ON; Mar 19, 2018.

Sutherland JM. "Patient-reported outcomes, PROs and CONs." BC Summit on Surgical Improvement, BC Patient Safety & Quality Council, Specialist Services Committee and General Practice Service Committee. Vancouver, BC; Jan 22, 2018.

Sutherland JM. "Financial Incentives and Improving Value from Health Spending." O'Brien Institute of Public Health, University of Calgary. Calgary, AB; May 26, 2017.

Sutherland JM. "Breaking down the silos – Funding to support delivery system reform." Hospital Payment Methods International Seminar. Calgary, AB; May 26, 2017.

Sutherland JM. "Introduction to Funding Health Care: What do We Get and What Should We Expect?" Advanced Imaging Project, British Columbia Ministry of Health. Vancouver, BC; 2017.

Sutherland JM. "Increasing Value from Spending: Using Funding Policy to Improve Health Care." Swedish Case Mix Conference. Stockholm, Sweden; Sep 6-7, 2017.

Westerberg B. "Global Surgical Care." 19th Annual Raymer Lecture, Department of Otolaryngology-Head and Neck Surgery, McGill University, Jewish General Hospital. Montreal. QC; Apr 13, 2017.

Osler F, Wright E, Yoo J, Kerr P, **Westerberg B**, Taylor SM. "Great Debate: Be it resolved that the word "Otolaryngology" should be removed from the name of our specialty." Canadian Society of Otolaryngology - Head and Neck Surgery 71st Annual Meeting, Saskatoon, SK; Jun 10-13, 2017.

Westerberg B. "Global Surgical Care." Radiation Oncology Grand Rounds, BC Cancer Agency. Vancouver, BC; Sep 14, 2017.

Wong H. "Real World Clinical Trials Methods Cluster Information Session." BC SUPPORT Unit Webinar. Vancouver, BC; Oct 2017.

CHÉOS Conference Abstracts

Total Number of Conference Abstracts: 196

Abramson C, Black A[†], Steinberg M, **Mackay MH**, Haayer T, Koh JC, **Salmon A**, **Snow E**, Hoens AM[†]. Knowledge Translation Challenge: Empowering clinicians to improve patient care. BC Quality Forum. Vancouver, BC; Feb 22-23, 2018. Oral presentation.

Adamson H, Letarte F, Sagorin Z, Karimuddin A, **Raval MJ**, **Phang PT**, **Brown CJ**. Transanal endoscopic microsurgery for T1 cancer: Different preoperative diagnoses lead to similar postoperative cure rates. American Society of Colon and Rectal Surgeons Annual Meeting. Seattle, WA; Jun 10-14 2017. Poster presentation.

Alkhodair A, Cairns J, Fordyce CB, **Mackay MH**, Perry-Arneson M, Tocher W, **Singer J**, Lee T*, Wong GC. Clinical outcomes of ST-Elevation myocardial infarction patients presenting to non-PCI centers treated with fibrinolysis compared to primary PCI: An analysis from the Vancouver Coastal Health Authority STEMI Program. *Can J Cardiol*. 2017;33(10):s102-3. 70th Annual Meeting of the Canadian Cardiovascular Society. Vancouver, BC; Oct 21-24, 2017.

Atiquzzaman M, **Karim ME**, Kopec J, **Wong H**, **Anis AH**. Do non-steroidal anti-inflammatory drugs (NSAIDs) lead to increased risk for cardiovascular diseases (CVD) among people with osteoarthritis (OA). World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases 2018. Krakow, Poland; Apr 19-22, 2018. Poster presentation.

Atiquzzaman M, Kopec J, **Karim ME**, **Wong H**, **Anis AH**. The role of NSAIDs in the association between osteoarthritis and cardiovascular diseases: A population-based cohort study. 2018 Annual European Congress of Rheumatology (EULAR). Amsterdam, Netherlands; Jun 13-16, 2018. Oral presentation.

Cochrane S, Merritt K, Palacol A, Siddiqui S, Leon A, Schactman A, **Mathias S**, **Barbic, SP**. Experiences of trauma-sensitive yoga. Adverse Childhood Event Conference. Vancouver, BC; Nov 2017. Oral presentation.

Bansback N, Mohammadi T*, **Anis AH**, O'Dell J, Hazelwood G. The value of shared decision-making interventions for choices regarding triple therapy in rheumatoid arthritis. Society for Medical Decision Making. Pittsburgh, PA; Oct 22-25, 2017.

Barbic D, **Grunau BE**, Scheuermeyer FX, Dick W, Christenson J. Do automatic external defibrillators improve rates of return of spontaneous circulation, survival to hospital discharge and favourable neurological survival in Canada? *CJEM*. 2017; 19(S1):S52. Canadian Association of Emergency Physicians Conference. Whistler, BC; Jun 3-7, 2017.

Barbic D, Scheuermeyer FX, Salehmohamed Q, Kim B, **Barbic SP**, Kawano T, **Grunau BE**, Christenson J. In patients presenting to the ED with STEMI, is the provision of morphine associated with worse patient outcomes? *CJEM*. 2017; 19(S1):S28-9. Canadian Association of Emergency Physicians Conference. Whistler, BC; Jun 3-7, 2017.

Barbic SP. Patient-centred outcome measurement in psychiatry: Why metrology hasn't mattered and why it should. International Measurement Confederation International Meeting. Rio de Janeiro, Brazil; Jul 2017. Oral presentation.

Barbic SP. Measuring recovery in mental health. Why the next 100 years of occupational therapy depends on metrology and meaningful measurement. American Occupational Therapy Association Annual Conference and Expo. Philadelphia, PA; Apr 1, 2017.

Barbic SP. Advancing the quality of measurement in psychiatry: the personal recovery outcome measure (PROM) study. International Objective Measurement Conference. Chicago, IL; Sep 2017. Oral presentation.

Barbic SP. Application of Rasch Measurement Theory to inform the national selection of outcome measures for youth with mental illness. International Objective Measurement Conference. Chicago, IL; Sep 2017. Oral presentation.

Barbic SP. Validation of the PHQ-9 as a screen for depression in the emergency department. International Objective Measurement Conference. Chicago, IL; Sep 2017. Oral presentation.

Barbic SP. Validation of the PHQ-9 as a screen for depression in the emergency department. Canadian Association for Emergency Physicians Conference. Whistler, BC; Jun 2017. Oral presentation.

Barbic SP, Barbic D. What are the social determinants of health of adults presenting to the emergency department with an acute mental health crisis? Canadian Association for Emergency Physicians Conference. Whistler, BC; Jun 2017.

Barbour SJ, Reich H, Suzuki Y, Liu ZH, Coppo R, Espino-Hernandez G, Cattran D; International IgAN Collaboration. The derivation and validation of an international multi-ethnic risk prediction model in IgA nephropathy. American Society of Nephrology Renal Week 2017, New Orleans, LA; Oct 31-Nov 5, 2017. Poster presentation.

Bertic M, Fordyce CB, Cairns J, Wenner J, Rayner-Hartley E, Al Khodair A, **Singer J**, Lee T*, Perry-Arnesen M, Tocher W, **Mackay MH**, Wong GC. Association of left anterior coronary artery involvement on clinical outcomes among STEMI patients presenting with and without out-of-hospital cardiac arrest. *Can J Cardiol*. 2017;33(10):s131-2. 70th Annual Meeting of the Canadian Cardiovascular Society. Vancouver, BC; Oct 21-24, 2017.

Bitnun A, **Singer J**, Sauve L, Alimenti A, Kakkar F, Alimenti A. Canadian Perinatal HIV Surveillance Program (CPHSP): Demographics, perinatal HIV transmission, and treatment in pregnancy in Canada 1997-2015. Canadian Association for HIV Research. Toronto, ON; Apr 6-9, 2017. Oral presentation.

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