

# TWENTY YEARS OF CHÉOS

2018/19 ANNUAL REPORT



**CHÉOS**  
Centre for Health Evaluation  
& Outcome Sciences

The Centre for Health Evaluation and Outcome Sciences (CHÉOS) produces high-quality evidence to make informed changes to the health care system. Bridging the gap between data, research, and care, CHÉOS is a collaboration between cross-disciplinary scientists and expert research staff evaluating the effectiveness of health interventions at the population level. From assessing the cost-effectiveness of a new drug or treatment option, to informing policy decisions that change how care is delivered, CHÉOS seeks to improve health outcomes for all.

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CHÉOS Publications

# Top CHÉOS Research Stories



(L-R): Drs. Michael Allard, Jeannie Shoveller, Aslam Anis, The Honourable Hedy Fry, Dr. Melanie Murray, Mr. Darren Lausher

## Investing in the Future of HIV Research

The Canadian Institutes of Health Research (CIHR) announced the renewal of the CIHR Canadian HIV Trials Network (CTN) with an investment of \$22.85 million over 5 years. This investment will support the ongoing efforts of Canadian investigators across the country to complete innovative trials and studies within an established community of scientists. Since 1990, the Network has been supporting a thriving community of researchers, people living with HIV, health advocates, and industry to generate knowledge about prevention, treatment, management, and a cure for HIV/AIDS and other sexually transmitted and blood-borne infections. The CTN has been a central feature of the federal initiative on HIV and currently supports over sixty trials and studies from basic science to social science. The Network also runs an innovative pilot study funding program and the CTN Postdoctoral Fellowship Program has supported over 90 early career researchers. The CTN's National Centre is hosted by CHÉOS and is supported by the UBC Faculty of Medicine, Providence Health Care, and Providence Health Care Research Institute (PHCRI).



Dr. Rick Sawatzky with students

## Dr. Sawatzky renewed as Tier II Canada Research Chair

In January 2019, Dr. Rick Sawatzky was renewed as a Tier II Canada Research Chair in Person-Centered Outcomes. Dr. Sawatzky's research focuses on developing digital tools to measure person-centered outcomes like a patient's quality of life and social support, and how to implement these tools into the existing health system. Many existing digital tools that collect and measure person-centered outcomes do not take into account personal or cultural differences between patients. Dr. Sawatzky's unique approach collects this information and takes these differences into account, which means that the measurements are significant to each individual person. Ultimately, bringing this type of approach to clinical decision-making processes will bring the needs, priorities, and concerns of patients to the forefront and ensure that they are considered in decision-making processes. Dr. Sawatzky is the Program Head for Patient-Reported Outcomes at CHÉOS.





*Emergency Medicine Drs. Jim Christenson and Brian Grunau at St. Paul's Hospital*

## Emergency Medicine Joins CHÉOS

Many scientists from the St. Paul's Emergency Research Group joined CHÉOS this year. Dr. Jim Christenson founded the group in 1994, and under his leadership it has become one of the pre-eminent emergency research groups in Canada, with an annual output of over 30 peer-reviewed publications. Within this program, several research projects led by CHÉOS scientists are changing the way emergency care is delivered at St. Paul's.

Dr. David Barbic is leading the Rapid Agitation Control with Ketamine in the Emergency Department (RACKED) Study, which compares the effectiveness of intramuscular ketamine to a standard combination of intramuscular medications in patients presenting to the emergency department with agitation and violent behavior. Dr. Andrew Kestler is co-leading a research program that provides opioid overdose patients with a short-term supply of Suboxone, a treatment for opioid dependency, when they are discharged from the hospital. The aim of the study is to reduce barriers to treatment and address the withdrawal symptoms that can prevent some people from seeking care after an overdose.



*Dr. Aslam Anis, 2018*

## National Director Recognized by Peers and Colleagues

In September, CHÉOS Director Dr. Aslam Anis received the 2018 Distinguished Achievement Award from the UBC Faculty of Medicine. The award recognizes meritorious performance and was presented to 14 faculty members across a variety of disciplines. Specifically, Dr. Anis' award recognizes overall excellence as a senior faculty member.

Dr. Anis was also presented with the 2018 PHCRI Research and Mission Award at the 14th Annual PHCRI Research Day, along with CHÉOS Scientist Dr. Jim Christenson. The award is presented each year to researchers who contribute to scientific knowledge at an exceptional level and exemplify the mission and values of Providence Health Care. During his acceptance speech, Dr. Anis thanked his team and the members of the community who have supported research over his career.

Many CHÉOS Scientists received awards this year — see page 11 for a full list.

# CHÉOS Welcomes New Scientists



**David Barbic, MD, MSc, FRCPC**

Dr. David Barbic is a Clinical Assistant Professor in the Department of Emergency Medicine at UBC and an emergency physician at St. Paul's Hospital. His primary research interests include resuscitation after cardiac arrest and marginalized populations. He is interested in improving the care and survival of people experiencing out-of-hospital cardiac arrest (OHCA). Dr. Barbic is currently working on OHCA projects in cardiopulmonary resuscitation (CPR), the use of automated external defibrillators (AEDs), non-traditional factors associated

with improved survival, and comparing regional differences in OHCA survival. Dr. Barbic's other area of research is improving the care of marginalized patients presenting to the emergency department. He is currently leading the Rapid Agitation Control with Ketamine in the Emergency Department (RACKED) Study and is contributing to studies to develop a clinical decision rule for seniors who have fallen and to improve screening and follow-up for depression and suicidal ideation in the emergency department.



**Jim Christenson, MD, FRCPC**

Dr. Jim Christenson is the Head of the UBC Department of Emergency Medicine and an emergency physician at St. Paul's. Dr. Christenson's primary research focus is in cardiovascular emergencies, especially resuscitation science and diagnostic decisions for potential acute coronary syndromes. He currently is a co-principal investigator and chair of the steering committee for the Canadian Resuscitation Outcomes Consortium which aims to improve care through early interventions in cardiac arrest and trauma

across Canada. Dr. Christenson leads the team that built and launched the BC Emergency Medicine Network (EMN), where he serves as Executive Lead. The EMN facilitates knowledge sharing and clinical support for all emergency practitioners in B.C. He has been a volunteer for the Heart and Stroke Foundation of Canada for over 30 years and is currently the chair of the Resuscitation Advisory Committee and a representative on the Heart Rhythm Council.



**Roxana Geoffrion, MDCM, FRCSC**

Dr. Roxana Geoffrion is an Associate Professor in the Division of Gynaecologic Specialties in the Department of Obstetrics & Gynaecology at UBC. She has a clinical practice as a urogynecologist at the Centre for Pelvic Floor at St. Paul's Hospital and is the Director of the Advanced Training Program in Female Pelvic Medicine and Reconstructive Surgery at UBC. Dr. Geoffrion's research interests focus on competency-based surgical education and she has initiated two randomized controlled trials for teaching and evaluating of surgical skills

in gynecologic surgery; she was awarded the first ever CIHR grant for a urogynecologic surgery randomized controlled trial, to study long-term outcomes of two different vaginal surgery techniques for pelvic organ prolapse repair (2016-2021). Her other research interests include patient education and knowledge translation in the area of pelvic floor health and prevention of disease, as well as surgical outcomes and sexual health of women with pelvic floor disorders.



**Troy Grennan, MD, MSc, FRCPC, DTMH**

Dr. Troy Grennan is a Clinical Assistant Professor in the Division of Infectious Diseases in the Department of Medicine at UBC. He is the Physician Lead for the Provincial HIV/STI Program at the BC Centre for Disease Control and works in the anal cancer screening clinic at St. Paul's Hospital. Dr. Grennan's research interests include HIV and sexually transmitted infection (STIs), STI prevention, human papillomavirus (HPV)-associated disease and anal cancer,

and the health of men who have sex with men (MSM). He is an Investigator with the CIHR Canadian HIV Trials Network (CTN) and is currently co-Principal Investigator on a CIHR Team Grant evaluating HPV screening and vaccinations in HIV-positive MSM. He also co-leads two grants on novel syphilis prevention using doxycycline chemoprophylaxis. Dr. Grennan has completed both clinical and research work in Swaziland and South Africa.



**Anita Ho, PhD, MPH, MMus, BComm**

Dr. Anita Ho is a bioethicist with a unique combination of academic training and experience in clinical/organizational ethics, public health, business, and philosophy. Dr. Ho is currently an Associate Professor in bioethics and health services research at the Centre for Applied Ethics at the UBC School of Population and Public Health, and an Associate Adjunct Professor in the Bioethics Program at the University of California, San Francisco. The former Director in Ethics Services at Providence Health Care, Dr. Ho was also the

Director of Undergraduate Ethics Education at the Centre for Biomedical Ethics at the National University of Singapore School of Medicine between 2014 and 2017. Her current research focuses on supportive decision making for various chronic conditions (e.g., heart failure, chronic kidney diseases, cancers) and end-of-life care decisions. Her broader research areas include ethical dimensions of health care, technology, decision making, and global health.



**Naveed Janjua, MBBS, MSc, DrPH**

Dr. Naveed Janjua is an epidemiologist, a senior scientist, and the Interim Director of Public Health Analytics at the BC Centre for Disease Control where he provides leadership on surveillance, advises on research and policy, and programing around hepatitis B and C in British Columbia. He is also a Clinical Associate Professor in the School of Population & Public Health at UBC. Dr. Janjua's research interests include hepatitis B and C epidemiology, syndemics of substance

use, mental illness and blood-borne and sexually transmitted infections, intervention effectiveness, disparities in treatment access and disease outcomes, and strategies to enhance access to care. He has been involved in initiatives to design and scale up testing, linkage with care and treatment for HCV in various settings. He is also member of various national networks including the CTN, where he serves as the Chair of the Scientific Review Committee.





**Andrew Kestler, MD, MBA, MScPH, DTMH**

Dr. Andrew Kestler is an emergency physician at St. Paul's Hospital, Vancouver General Hospital, and BC Children's Hospital in Vancouver, and a Clinical Associate Professor at the UBC Department of Emergency Medicine. He has additional training in health care administration, public health, and tropical medicine. He has also lived and worked in Botswana, where he oversaw the launch of a new emergency medicine department and residency program. His current research and public health efforts focus on emergency department interventions for patients with opioid addiction.

His completed projects include an evaluation of a novel emergency department take-home naloxone kit distribution program and the development of a take-home naloxone teaching app. His current focus includes implementing take-home opioid agonist therapy in emergency departments. Through his affiliation with the CIHR-funded Canadian Initiative on Substance



**Sandra Lauck, PhD, RN**

Dr. Sandra Lauck is a Clinical Assistant Professor at the UBC School of Nursing and holds the St. Paul's Hospital and Heart & Stroke Foundation Professorship in Cardiovascular Nursing. Dr. Lauck holds the first UBC School of Nursing appointment as an embedded nurse clinician scientist and works in that role at the Heart Centre at St. Paul's Hospital. She leads a program of research focused on cardiac health service delivery and the study of patients' experiences of care. Dr. Lauck is also a scientist at the Centre for Heart Valve

Innovation. Among other studies, she is a co-investigator of the Multidisciplinary, Multimodality but Minimalist Transcatheter Aortic Valve Replacement (3M TAVR), a multi-site, international clinical trial investigating the efficacy, safety, and feasibility of



**Frank Scheuermeyer, MD, MHSc**

Dr. Frank Scheuermeyer is the Associate Research Director as well as a Clinical Associate Professor at the UBC Department of Emergency Medicine and the Interim Director of Research and an emergency physician at the St. Paul's Hospital Emergency Department. He works with cardiologists to study safe and efficient management of emergency department patients with acute chest pain and cardiac arrhythmias and has a research interest in the care of patients with out-of-hospital cardiac arrest. Working with the Department of

Public Health and BC Ambulance Services, his other main research interest includes prehospital and emergency treatment of patients with opioid overdose. He is a member of the Research Committee for the Canadian Association of Emergency Physicians and the BC Emergency Medicine Research Network, a reviewer for eight medical journals, and serves on the



# CHÉOS Scientists

Aslam Anis, PhD, FCAHS  
Najib Ayas, MD, MPH, FRCPC  
Nick Bansback, PhD  
David Barbic, MD, M.Sc., FRCPC  
Skye Barbic, PhD, M.Sc., B.Sc(OT), B.Sc.  
Sean Barbour, MD, M.Sc., FRCPC  
Monica Beaulieu, MD, FRCPC, MHA  
Carl J. Brown, MD, M.Sc., FRCSC  
Jim Christenson, MD, FRCPC  
Annalijn Conklin, PhD, MPH, M.Sc., B.Sc.  
Geoffrey Cundiff, MD, FCOG, FACS, FRCSC  
Peter Dodek, MD, M.HSc.  
Jim Frankish, PhD, MA  
Oron Frenkel, MD, MS  
Anne Gadermann, PhD  
Josie Geller, PhD, R.Psych.  
Roxana Geoffrion, MDCM, FRCSC

Jagbir Gill, MD, MPH, FRCPC  
John Gill, MD, M.Sc.  
Sabrina Gill, MD, MPH, FRCPC  
Eric Grafstein, MD, FRCPC  
Troy Grennan, MD, M.Sc., FRCPC, DTMH  
Brian Grunau, MD, CCFP (EM)  
Devin Harris, MD, CCFP (EM), FCFP, M.HSc.  
Mark Harrison, PhD, M.Sc.  
Anita Ho, PhD, MPH, MMus, BComm  
Karin Humphries, D.Sc., M.Sc., MBA  
Garth Hunte, MD, PhD, FCFP  
Naveed Janjua, MBBS, M.Sc., DrPH  
Shirin Kalyan, PhD  
Ehsan Karim, PhD, M.Sc.  
Andrew Kestler, MD, MBA, MScPH, DTMH  
Nadia Khan, MD, M.Sc., FRCPC  
Mieke Koehoorn, PhD

Michael Krausz, MD, PhD, FRCPC  
Sandra Lauck, PhD, RN  
Jane Lea, MD, FRCSC  
Adeera Levin, MD, FRCPC  
Linda Li, PhD, M.Sc., B.Sc. (PT)  
Larry D. Lynd, PhD, BSP  
Rita McCracken, MD, CCFP, PhD Cand.  
Martha Mackay, PhD, RN CCN(C)  
Steven Mathias, MD, FRCPC  
Sarah Munro, PhD, MA, BA  
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  
Chris G. Richardson, PhD, M.Sc., BA  
Caren Rose, PhD, M.Sc.

Amy Salmon, PhD  
Richard Sawatzky, PhD, RN  
Martin Schechter, MD, PhD, FRCPC, FRSC, FCAHS  
Frank Scheuermeyer, MD, M.HSc.  
Christian G. Schütz, MD, PhD, MPH, FRCPC  
Kamran Shojania, MD, FRCPC  
Joel Singer, PhD  
Beth Snow, PhD, MBA, CE  
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

# 20 Years of CHÉOS

## 1998

CHÉOS began when The Health Research Centre relaunched as the Centre for Health Evaluation and Outcome Sciences.



## 1999

CHÉOS partners with BC Renal Agency to help develop and operate their PROMIS information system. The system is the only province-wide integrated registry for kidney disease and transplant patients. It is currently used by over 70 facilities and hospitals across the province.



## 2005

CHÉOS Scientists and staff spearhead the NAOMI trial, the first heroin-assisted clinical trial in North America. This project then led to the SALOME, RUTH, and PORTIA trials. The results of this body of work have directly informed drug policy decisions made by Health Canada.



## 1998

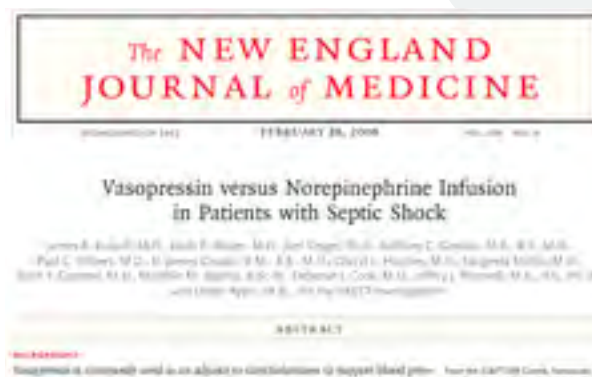
In its first year, CHÉOS partnered with the Canadian Arthritis Network, leading their Health Economics Program. This partnership is still in effect and connects CHÉOS to researchers from across Canada.



CANADIAN  
ARTHRITIS  
NETWORK | LE RÉSEAU  
CANADIEN  
DE L'ARTHRITE

## 2001

CHÉOS collaborates with Dr. Jim Russell from Critical Care Medicine at St. Paul's Hospital on the Vasopressin and Septic Shock Trial. This large, international study was one of CHÉOS' first and produced evidence relevant today.



## 2005

Providence Health Care Research Institute (PHCRI) is established to provide oversight and support for researchers at PHC. CHÉOS is designated as one of the five research centres under PHCRI.



PROVIDENCE HEALTH CARE  
Research Institute

Pursuing **real life** health solutions.



## 2006

Dr. Aslam Anis is appointed as the Director of CHÉOS. This appointment cements the Centre as a pre-eminent leader in the field of health economics.



## 2012

CHÉOS Scientists and staff become significantly involved in the Inner City Youth program, which is now the Foundry network of youth mental health service hubs. Foundry is transforming youth mental health care in B.C. and providing a model for the rest of the country.



## 2017

CHÉOS' Work in Progress Seminar Series marks 15 years of hosting interdisciplinary research forums. The WiP Seminars continue to be a place where the research community gathers to share their work and to develop new projects and collaborations.



## 2009

CHÉOS partners with The Health and Housing in Transition Study. This longitudinal, cross-Canada study showcases CHÉOS' expertise in research in the non-medical determinants of health. This study illuminates the effects of homelessness and housing vulnerability on health and is directly applicable to policy decisions.



## 2012

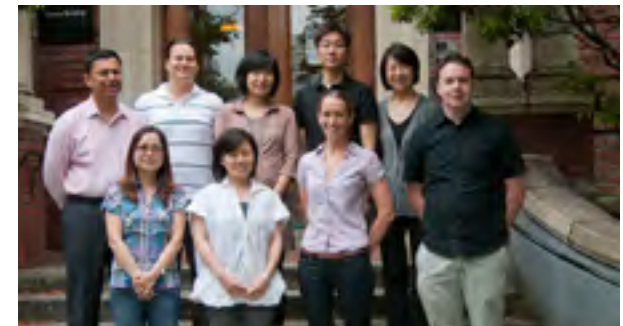
CHÉOS officially becomes a UBC Faculty of Medicine Research Centre and is recognized as a leader of the research community in B.C. and Canada.



**THE UNIVERSITY  
OF BRITISH COLUMBIA**  
Faculty of Medicine

## 2018

Today, CHÉOS Scientists are actively involved in mentoring over 150 trainees, including Masters- and Doctoral-level students and postdoctoral fellows. The Centre continues its upward trajectory, building capacity and fostering new talent and careers in health evaluation and outcomes research.



# CHÉOS Work in Progress Seminar Series

The Work in Progress Seminar Series is a bi-weekly, interdisciplinary research forum where scientists gather to share their work and develop new projects.



April 11	<b>Alec Balasescu:</b> Climate change, artificial intelligence and the future of health care
April 25	<b>Anita Palepu* &amp; Anna Gadermann*:</b> The Health and Housing in Transition Study: Predictors of QOL & health care service utilization among homeless & vulnerably housed individuals
May 9	<b>Magda Aguiar:</b> The cost-effectiveness of preventing population vitamin D deficiency in the UK: Methodological and policy considerations
May 23	<b>John Staples*:</b> Public events as natural experiments
June 20	<b>Steve Mathias*:</b> Foundry: An innovation in youth health and wellness
September 26	<b>David Barbic*:</b> Rapid agitation control with ketamine in the ED: Current progress, challenges, and future directions
October 10	<b>Mark Harrison*:</b> Preventive treatment for rheumatoid arthritis: Are we looking in the right direction?
October 24	<b>Sabrina Wong:</b> Measuring what matters: Key pieces of a primary care learning health system
November 7	<b>Paula Lorgelly:</b> Does the public value targeted sequencing in advanced cancer?
November 21	<b>Mohsen Sadatsafavi:</b> From ROC to RIC: New metrics for documenting the clinical utility of (bio)markers & risk prediction scores
December 5	<b>Lara Russell*:</b> Accommodating diversity when using PROMs: Statistical methods and KT challenges
December 19	<b>Frank Scheuermeyer*:</b> What happens after you die? Post-admission management of out-of-hospital cardiac arrest
January 16	<b>Amy Salmon*, Mai Berger†, Saranee Fernando†, Karen Tee:</b> Stepped care models for youth mental health service delivery: What does the evidence say?
January 30	<b>Sarah Munro*:</b> Using documentary as a method of knowledge translation
February 13	<b>Carole Lunny:</b> An introduction to commonly encountered scenarios in 'overviews of systematic reviews'
February 27	<b>Gina Ogilvie:</b> The road to global elimination of cervical cancer: Optimizing secondary prevention
March 13	<b>Troy Grennan*:</b> Is there a need for a paradigm shift in bacterial STI prevention?
March 27	<b>Lillian Hung*:</b> Co-research with patient & family partners in a social robot study to improve dementia care

\* CHÉOS Scientist   † CHÉOS Staff   ‡ CHÉOS Research Associate



# CHÉOS Awards

## CHÉOS Scientists merit awards:

Drs. Aslam Anis and Jim Christensen received Research and Mission Awards from Providence Health Care Research Institute.

Dr. Najib Ayas received the St. Paul's Hospital Excellence in Research Award.

Dr. Nick Bansback received the KT Research Award from Arthritis Research Canada.

Dr. Adeera Levin received Merit Award from the UBC Department of Medicine.

Drs. Skye Barbic, Anne Gadermann, and Ehsan Karim received Scholar Awards from the Michael Smith Foundation for Health Research.

Dr. Peter Dodek received the Deborah J. Cook Award for Mentoring from the Canadian Critical Care Trials Group.

Dr. Josie Geller received a Health Professional Investigator Award from the Michael Smith Foundation for Health Research.

Dr. Jag Gill was recognized by the Canadian Society of Transplantation with the Research Excellence Award.

Dr. Brian Grunau was honoured with the Young Investigator Award of Excellence by the Canadian Resuscitation Outcomes Consortium.

Dr. Karin Humphries received the Distinguished Researcher Award from the UBC Faculty of Medicine.

Dr. Larry Lynd was appointed as a Fellow of the Canadian Academy of Health Sciences.

Dr. Christian Schütz received an award for Outstanding Academic Performance from the UBC Department of Medicine.



*Drs. Ehsan Karim and Anne Gadermann at the Michael Smith Foundation Awards.  
Photo Courtesy of Michael Smith Foundation for Health Research.*

## CHÉOS Scientists received awards from UBC:

Drs. Rick Sawatzky and Martha Mackay were awarded the Centenary Medal of Distinction from the UBC School of Nursing.

Dr. Monica Beaulieu was awarded with the Honour Roll for Clinical Teaching Excellence.

Dr. Greg Werker received the Killam Teaching Award for Excellence in Undergraduate Teaching.

## CHÉOS Research Associates awards:

Dr. Lillian Hung was awarded the Centenary Medal of Distinction from the UBC School of Nursing.



CHÉOS CCRO, Erin Cherban, speaking at Access to Innovation 2019

## CHÉOS Accepts the Challenge

The Providence Health Care Practice-Based Research Challenge is an annual competition that mobilizes point-of-care clinicians and research staff to design and implement small research projects. In 2018, 11 teams were funded; five of those teams were mentored by CHÉOS Scientists. Drs. Sabrina Gill, Rick Sawatzky, and Martha Mackay, who also serves on the Research Challenge Advisory Committee, each mentored a team; Dr. Sandra Lauck mentored two teams. The Research Challenge is organized and led by CHÉOS Research Associate Aggie Black, Director, Health Services & Clinical and Knowledge Translation at PHC. CHÉOS staff members also provide research support services to the project teams.

Also this year, as part of his mentorship of a 2015 Research Challenge team, CHÉOS Scientist Dr. Joseph Puyat led the publication of the results of a research project which found that almost half of interdisciplinary care staff at PHC's five long-term care facilities exhibit signs of burnout. This research project was led by team members Anne Leclerc, Annes Song, Kit Chan, Karen Pott, and Chris Bernard.

Dr. Puyat also mentored a team of point-of-care clinicians for the PHC/VCH Knowledge Translation Challenge, an off-shoot of the Research Challenge launched in 2017, that focuses on design and implementation of a knowledge translation initiative. Led by Michelle Carter, a Clinical Nurse Specialist in the Mental Health Program at PHC, the team aims to implement a clinical toolkit for monitoring people on clozapine, a medication used for treatment-resistant schizophrenia.

### Research Education Seminars

CHÉOS hosts the PHC Clinical Research Education Lunch and Learn Series. These lunchtime seminars provide continuing education for clinical research staff. Four sessions were hosted this year:

- An Overview of Health Canada's Training on Good Clinical Practice and Multi-Regional Clinical Trials — Erin Cherban, Chief Clinical Research Officer, CHÉOS
- Good Documentation Practices: Records — Jean Smart, Quality & Regulatory Affairs Officer, Clinical Trials BC
- Clinical Research Budget Information — Esther Wu, Clinical Research Contracts & Grants Manager, PHC
- Risk-Based Monitoring / "Ask Me" Campaign — Marx Jayaraman, Project Manager & Leslie Love, Senior Project Manager, CHÉOS

Full stories and more at [www.CHÉOS.ubc.ca/news](http://www.CHÉOS.ubc.ca/news)

### Trainee Spotlight: Logan Trenaman, PhD

CIHR-funded  
Postdoctoral Fellow,  
University of California,  
Davis



Logan Trenaman completed his PhD at the University of British Columbia in 2018 under the supervision of CHÉOS Scientist Dr. Nick Bansback. His research aims to improve decision-making at both the patient and health system levels. He is a two-time recipient of the Lee B. Lusted Student Prize from the Society for Medical Decision Making (2013 and 2017).



# CHÉOS Collaborations



*CHÉOS' Kristin Westland, Dr. Aslam Anis, Erin Cherban with CHÉOS Scientist Steven Mathias, and CHÉOS' Bob Sindelar at LifeSciences BC: Access to Innovation 2019*

## Event Partnerships, International and Domestic

CHÉOS partnered with LifeSciences BC to present "Access to Innovation 2019." The conference convened groups from academia, research institutions, businesses, and government to share progress and projects in the health sciences. CHÉOS Scientist Dr. Larry Lynd presented his work on rare diseases and related funding and Erin Cherban, CHÉOS' CCRO, gave an overview of the Centre.

In a collaboration with the Sahlgrenska Academy at the University of Gothenburg, CHÉOS Scientist Dr. Rick Sawatzky and Research Associate Lara Russell travelled to Sweden to deliver a three-day workshop on advanced methods for measurement validation. In addition to University of Gothenburg and other Swedish universities, participants came from Belgium, Malawi, Nigeria, and Rwanda. Dr. Sawatzky is an affiliate professor at the Sahlgrenska Academy.

## Patient-Oriented Research and the BC SUPPORT Unit

In the fall of 2018, the BC SUPPORT (Support for People and Patient-Oriented Research and Trials) Unit announced the launch of the first wave of Methods Clusters projects. Each of the six distinct Methods Clusters aims to improve how patient-oriented research is conducted by advancing the methods used in their respective fields.

Several CHÉOS Scientists lead these Clusters: Dr. Nick Bansback (Health Economics and Simulation Modelling, co-lead), Dr. Linda Li (Knowledge Translation and Implementation Science), Dr. Hubert Wong (Real-World Clinical Trials), and Dr. Rick Sawatzky (Patient-Centred Measurement Methods). CHÉOS Research Associate Alison Hoens is the Methods Cluster KT Specialist.

# CHÉOS Services & Staff

CHÉOS research staff provide 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 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.



## Staff Spotlight: Jenna Pullen

Programs and Committees  
Coordinator, CHÉOS

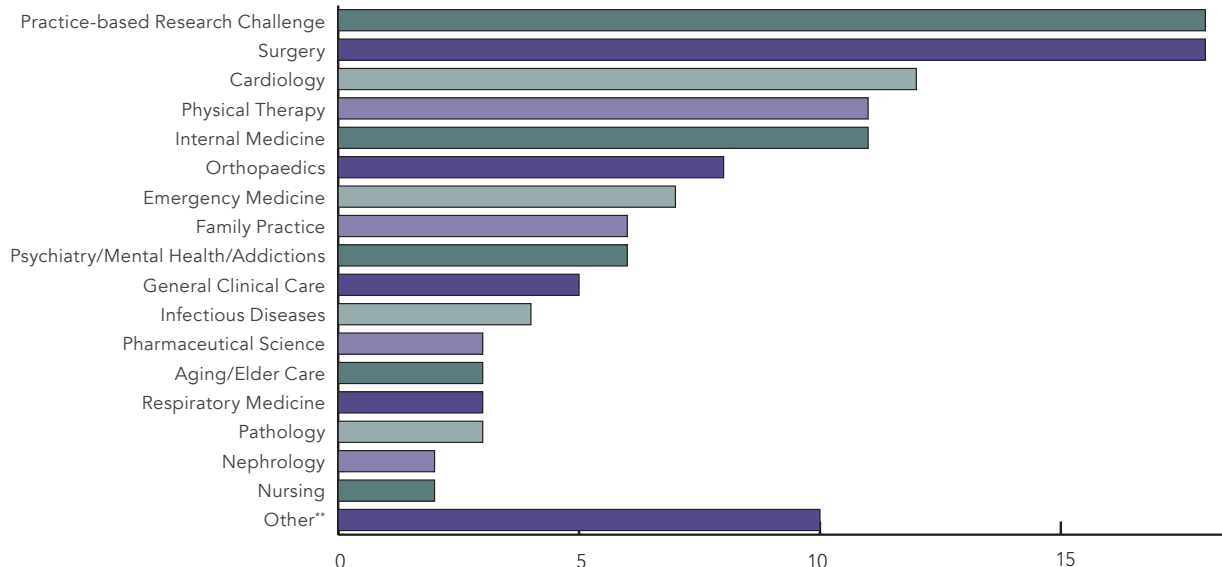
Jenna joined the CHÉOS team in 2019. If you are interested in any of the research services that the Centre provides, please contact Jenna at our Howe St. office.

You can reach Jenna at:

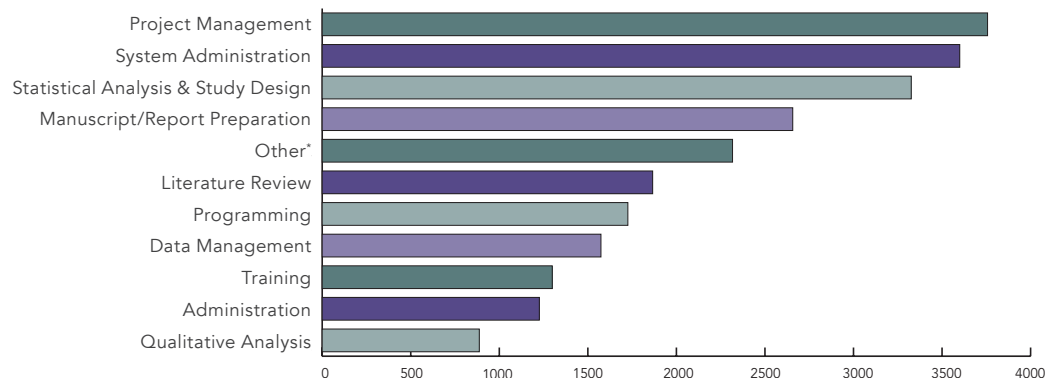
604-682-2344 ext. 64709

[jpullen@hivnet.ubc.ca](mailto:jpullen@hivnet.ubc.ca)

### Service Requests by Area or Specialty



### Hours Completed by Service Area



## Research and Support Staff by Specialty

Statistics &  
Methodology (15)

Project  
Management (8)

Program  
Evaluation (8)

Health  
Economics (7)

Data  
Management (7)

Programming (4)

Clinical Education (1)  
Regulatory Affairs (1)

\* Includes all other aspects of operations, facilitation, and support performed by research staff.

\*\* Includes all other specialties or areas that requested services.



# CHÉOS Research Briefs

These summaries come from The Evidence Speaks, our monthly news feature highlighting the latest in CHÉOS research. See our website for in-depth features on our latest work. [www.CHÉOS.ubc.ca/evidencespeaks](http://www.CHÉOS.ubc.ca/evidencespeaks).

## **Sex differences in diagnoses, treatment and outcomes for emergency department patients with chest pain and elevated cardiac troponin**

Humphries KH\*, Lee MK, Izadnegahdar M, Gao M, Holmes DT, Scheuermeyer FX\*, Mackay M\*, Mattman A, Grafstein E\*. *Acad Emerg Med*, April 2018

This retrospective study analyzed sex differences in the relationship between cardiac troponin (a protein produced due to heart damage during a heart attack) and diagnosis, treatment, and cardiac outcomes. In patients with elevated cardiac troponin and chest pain, women were less likely to be diagnosed and treated for heart attack, demonstrating that the current diagnostic criteria for heart attack is inadequate for women.

## **Evaluating Canadians' values for drug coverage decision making**

Rizzardo S, Bansback N\*, Dragojlovic N, Douglas C, Li KH, Mitton C, Marra C, Blanis L, Lynd LD\*. *Value Health*, March 2019

This study measured the value people place on factors related to the government's decision to fund new drugs. Using online survey data, results showed that the public values a drug's effectiveness and safety, equal access to treatment, and disease severity. These findings are a valuable step in understanding societal values in Canada specific to decision making.

## **Cost savings analysis of early extubation following congenital heart surgery**

Holowachuk S, Zhang W\*, Gandhi SK, Anis AH\*, Potts JE, Harris KC. *Pediatr Cardiol*, September 2018

This study estimated the economic impact of early extubation — removal of the ventilation tube within 24 hours following congenital heart surgery — at BC Children's Hospital. Early extubation saved an estimated \$4.8 million over two years due to reduced length of stay in the ICU, with no effect on morbidity or mortality.

## **Ecological association between operative vaginal delivery and obstetric and birth trauma**

Muraca GM, Lisonkova S, Skoll A, Brant R, Cundiff GW\*, Sabr Y, Joseph KS. *CMAJ*, June 2018

This study examined the population-level impact of operative vaginal delivery (deliveries using forceps, vacuum, or other devices) on newborn and maternal outcomes. This form of delivery was associated with higher rates of injury to the mother and, in women who had not previously given birth, with severe neonatal trauma; this suggests that recommendations to increase operative vaginal delivery to reduce rates of caesarean delivery should be re-examined.



# CHÉOS Top Publications

In 2018-2019, CHÉOS Scientists were authors on over 315 peer-reviewed 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, commentaries, and letters to the editor are not included.*

Anand S, Montez-Rath ME, Adasooriya D, Ratnatunga N, Kambham N,...**Levin A**, et al. Prospective biopsy-based study of chronic kidney disease of unknown etiology in Sri Lanka. *Clin J Am Soc Nephrol*. 2019 Feb;14(2):224-32.

Andrade JG, Champagne J, Deyell MW, Essebag V, **Lauck SB**, et al.; EARLY-AF Study Investigators. A randomized clinical trial of early invasive intervention for atrial fibrillation (EARLY-AF) – methods and rationale. *Am Heart J*. 2018 Dec;206:94-104.

**Ayas NT**, Foster GE, Shah N, Floras J, Laher I. Could adjunctive pharmacology mitigate cardiovascular consequences of OSA? *Am J Respir Crit Care Med*. Epub 2019 Mar 15.

Bagshaw SM, Adhikari NKJ, Burns KEA, Friedrich JO, Bouchard J,...**Dodek P**, et al.; Canadian Critical Care Trials Group. Selection and receipt of kidney replacement in critically ill older patients with AKI. *Clin J Am Soc Nephrol*. Epub 2019 Mar 21.

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Coresh J, Heerspink HJL, Sang Y, Matsushita K, Ärnlöv J, et al.; Chronic Kidney Disease Prognosis Consortium and Chronic Kidney Disease Epidemiology Collaboration (**Levin A**). Change in albuminuria and subsequent risk of end-stage kidney disease: An individual participant-level consortium meta-analysis of observational studies. *Lancet Diabetes Endocrinol*. 2019 Feb;7(2):115-27.

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Centre for Health Evaluation and Outcome Sciences  
588 - 1081 Burrard Street | Vancouver, BC V6Z 1Y6

604-806-9958 | [info@cheos.ubc.ca](mailto:info@cheos.ubc.ca)

[www.CHEOS.ubc.ca](http://www.CHEOS.ubc.ca)

