

CO RE

2018
ANNUAL
REPORT



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2018 ANNUAL REPORT



Collaboration for
Outcomes
Research and
Evaluation

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CORE at a Glance

Housed within The University of British Columbia's Faculty of Pharmaceutical Sciences, the Collaboration for Outcomes Research and Evaluation (CORE) is an academic research group established in 2000. Led by Director, Dr. Larry Lynd, CORE's vision is to lead evidence-based evaluations to improve health-related outcomes locally, nationally, and internationally.


The overarching goal of our research is to improve health-related outcomes through the application of the best in research, education, and practice enhancement strategies. CORE strives to provide the best evidence to inform practice, policy, and future research aimed at improving clinical outcomes, quality of life, and economic benefits of health interventions. This is achieved through a combination of independent and collaborative multidisciplinary research programs including engagement with patients, clinicians, other researchers, policy makers, and both public and private sector stakeholders.

Year Highlights

 **JOURNALS**
50
PEER REVIEWED
JOURNAL ARTICLES

 **COMPLETED** **6** | **ACTIVE** **15**
TRAINEES
(Masters, PhD, and Postdoctoral Fellows supervised by CORE Faculty)

 **16**
COURSES
TAUGHT

 **AWARDED** **3.4M**
FUNDING
(New grants and contracts awarded to CORE Faculty as Principal Investigator/Applicant)

Recognitions and Highlights

Congratulations to Dr. Larry Lynd for being inducted as a Fellow of the Canadian Academy of Health Sciences (CAHS), considered one of the highest honours within Canada's academic community. CAHS Fellows are nominated by their institutions and peers and selected in a competitive process based on their internationally recognized leadership, academic performance, scientific creativity and willingness to serve.



CAHS pledges to serve Canadians by volunteering the time and expertise of our Fellows in conducting independent, unbiased, expert assessments on health-related topics of major importance to Canada.



Congratulations to Dr. Mohsen Sadatsafavi for receiving the Association of Faculties of Pharmacy of Canada 2018 New Investigator Research Award that recognizes outstanding research achievements and contributions of the junior members of the academic staff of Faculties, Colleges or Schools of Pharmacy in Canada.

Our Research Areas

PHARMACY PRACTICE RESEARCH **GLOBAL HEALTH** **HEALTH SERVICES RESEARCH** **HEALTH ECONOMICS** **DISEASE MODELING**
EPIDEMIOLOGY/CLINICAL EVALUATION
PHARMACOEPIDEMIOLOGY

Faculty



**LARRY
LYND**
PhD, BSP
Professor &
Director, CORE

e. larry.lynd@ubc.ca
p. 604 827 3397

**PETER
ZED**
PharmD
Professor &
Associate Dean,
Practice Innovation

e. peter.zed@ubc.ca
p. 604 827 0178



**PETER
LOEWEN**
PharmD
Associate Professor

e. peter.loewen@ubc.ca
p. 604 827 1814

**FAWZIAH
LALJI (MARRA)**
PharmD
Professor

e. fawziah.lalji@ubc.ca
p. 604 822 7898



**MARY
DE VERA**
PhD
Assistant Professor

e. mary.devera@ubc.ca
p. 604 827 2138

**MARK
HARRISON**
PhD
Assistant Professor

e. mark.harrison@ubc.ca
p. 604 827 0687



**ANNALIJN
CONKLIN**
PhD (CANTAB), MPH
Assistant Professor

e. annalijn.conklin@ubc.ca
p. 604 827 4258

**MOHSEN
SADATSAFAVI**
MD, PhD
Assistant Professor

e. mohsen.sadatsafavi@ubc.ca
p. 604 827 3020



Graduate and Post Graduate Trainees

COMPLETED	ACTIVE	
<p>Alison Pearce Solmaz Ehteshami Afshar</p>	<p>Magda Aguiar Mohsen Yaghoubi</p>	<p>Postdoctoral Fellows</p> 
<p>Jonathon Campbell Natalie McCormick Nicole Tsao</p>	<p>Alyssa Howren Ariana Saatchi Celestin Hategeka Kate Johnson Mohammed Atiquzzaman Nelson Gorrin Nirma Vadlamudi Norma Biln Rebecca Metcalfe Shahzad Salmasi</p>	<p>PhD Students</p> 
<p>James Hicklin</p>	<p>Khalid Saad El Din Nevena Rebic Ross Duncan</p>	<p>Masters Students</p> 

Clinical Trainees & Undergraduate Students

<p>Adam Mah Renee Dagenais</p>	<p>PharmD Students/ Residents</p> 
<p>Abdo Sourya Ainsleigh Hill Brian Ng Caitlin Chew Christine Lukac Enavzipora Zusman Jamie Park Jenny Gu</p>	<p>Joy Que Kathleen Lau Kane Larson Lester Lin Lilly Lin Rachel Tandun Rebecca Wang Tara Luk</p> <p>Undergraduate* Students</p> 

*Undergraduate students include: Summer students, directed studies, and undergraduate academic assistants supervised.

Funding

(New grants and contracts awarded to CORE Faculty as Principal Investigator/Applicant)

Source	Project Title	Total
		Amount to CORE
BC Support Unit	Using Health Economic Methods to Design Patient-Oriented Clinical Studies	\$57,550
Canadian Centre for Applied Research in Cancer Control Seed Grant	Connected health to address the information and support needs of patients and survivors of young-onset colorectal cancer	\$29,945
Canadian Institutes of Health Research Project Grant	Examining epidemiology, treatment, and outcomes in young-onset colorectal cancer (EXPLAIN-yCRC)	\$459,000
MethaPharm, Inc. (U.S. company)	Health Technology Assessment of systematic implementation of objective diagnostic testing for asthma in the U.S	\$116,737
Michael Smith Foundation for Health Research Convening & Collaborating grant	Building a new partnership between the FNHA and UBC for community-based research to improve Indigenous women's heart health	\$14,980
Pfizer Canada	Perspectives on multidisciplinary care for patients with rheumatic disease in BC	\$50,000
UBC Collaborative Research Mobility Awards (VP Research & Innovation)	Building a new UBC-UW collaboration for a research cluster on the social determinants of nutrition-related outcomes	\$14,390
Vancouver Coastal Health Research Institute	Using Health Economic Methods to Design Patient-Oriented Clinical Studies	\$153,020
Vancouver Coastal Health Research Institute	Economic burden of pediatric asthma	\$148,132

(Team grants involving CORE Faculty)

Source	Project Title	Total
		Amount to CORE (Total amount awarded)
Genome British Columbia (administrative lead), G�enome Qu�ebec	GenCOUNSEL: Optimization of Genetic Counseling for Clinical Implementation of Genome-Wide Sequencing	\$935,954 (\$4,200,000)
MS Society of Canada, Brain Canada, BioGen, and Roche	The Canadian Proactive Cohort Study for People Living with Multiple Sclerosis (CanProCo)	\$938,000 (\$8,715,000)
Genome Canada	Childhood Asthma and the Microbiome - Precision Health for Life	\$436,290 (\$9,142,486)

Publications

A

Al Efraij K, Johnson KM, Wiebe D, Sadatsafavi M, FitzGerald JM. A systematic review of the adverse events and economic impact associated with oral corticosteroids in asthma. *J Asthma*. 2018 Dec 4:1-13

C

Campbell JR, Johnston JC, Ronald LA, Sadatsafavi M, Balshaw RF, Cook VJ, Levin A, Marra F. Screening for Latent Tuberculosis Infection in Migrants With CKD: A Cost-effectiveness Analysis. *Am J Kidney Dis*. 2018 Sep 28. pii: S0272-6386(18)30878-3. PMID: 30269868

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Chen W, Johnson KM, FitzGerald JM, Sadatsafavi M, Leslie WD. Long-term effects of inhaled corticosteroids on bone mineral density in older women with asthma or COPD: a registry-based cohort study. *Arch Osteoporos*. 2018 Oct 29;13(1):116

Chen W, Sin DD, FitzGerald JM, Sadatsafavi M. The Impact of Care Specialty on Survival-Adjusted Medical Costs of COPD Patients After a Hospitalization: a longitudinal analysis. *J Gen Intern Med*. 2018 Apr 2. doi: 10.1007/s11606-018-4406-x. PMID: 29611088

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D

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Dragojlovic N, Kim E, Elliott A, Friedman J, Lynd LD. Evaluating the use of parental reports to estimate healthcare resource utilization in children with suspected genetic disorders. *J Eval Clin Pract*. 2018 Apr;24(2):416-422. doi: 10.1111/jep.12876. PMID: 29603523

E

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F

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“ We found a strong link between food price inflation and obesity in adult women in developing countries which is clearly modified by individuals' SES ”

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IMPACT
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H

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M

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population-based study. *Lupus*. 2018 Jul;27(8):1247-1258. doi: 10.1177/0961203318768882. PMID: 29665755

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Munro S, Spooner L, Milbers K, Hudson M, Koehn C, Harrison M. Perspectives of patients, first-degree relatives and rheumatologists on preventive treatments for rheumatoid arthritis: A Qualitative Analysis. *BMC Rheumatology*. 2018 2:18

N

Najafzadeh M, Ungar WJ, Hadioonsadeh A, Tsao N, Lynd LD. Comparing different experimental designs for best-worst scaling choice experiments: the case of asthma control. *Int J Health Pref Res* 2018 May;1:3-16 doi: 10.21965/IJHPR.2018.001.

R

Rai SK, Howren A, Wilcox ES, Townsend AF, Marra CA, Avina-Zubieta JA, De Vera MA. Exploring strategies to support medication adherence in patients with inflammatory arthritis: A patient-oriented qualitative study using an interactive focus group activity. *Patient Preference and Adherence*. 2018 Oct 5;2018(12); 2015-25. doi: 10.2147/PPA.S174672.

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S

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Salmasi S, Kwan L, MacGillivray J, Bansback N, De Vera MA, Barry AR, Harrison MJ, Andrade J, Lynd LD, Loewen P. Assessment of atrial fibrillation patients' education needs from patient and clinician perspectives: a qualitative study. *Throm Res* 2018; In Press. doi: 10.1016/j.thromres.2018.11.015

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T

Tavakoli H, FitzGerald JM, Lynd LD, Sadatsafavi M. Predictors of inappropriate and excessive use of reliever medications in asthma: a 16 year population based- study. *BMC Pulm Med*. 2018 Feb 12;18(1):33. doi: 10.1186/s12890-018-0598-4. PMID: 29433489

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Tsao NW, Sayre EC, Hanley G, Sadatsafavi M, Lynd LD, Marra CA, De Vera MA. Risk of preterm delivery and small-for-gestational-age births in women with autoimmune disease using biologics before or during pregnancy: a population-based cohort study. *Ann Rheum Dis*. 2018; 77(6): 869-74. doi: 10.1136/annrheumdis-2018-213023.

V

Vadlamudi N, Chen A, Marra F. Impact of 13-valent pneumococcal conjugate vaccine among adults: a systematic review and meta-analysis. *Clin Infect Dis* 2018 (in press)

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van Boven JFM, van de Hei SJ, Sadatsafavi M. Making sense of cost-effectiveness analyses in respiratory medicine: a practical guide for non-health economists. *Eur Respir J*. 2018 Dec 21

Verbowski V, Talukder Z, Hou K, Sok Hoing, L, Michaux K, Anderson V, Gibson R, Li K, Lynd LD, McLean J, Green, TJ, Barr S. Effect of enhanced homestead food production and aquaculture on dietary intakes of women and children in rural Cambodia: a cluster randomized controlled trial. *Matern Child Nutr*. 2018 Jun; 14(3):e12581. doi: 10.1111/mcn.12581. PMID: 29314705

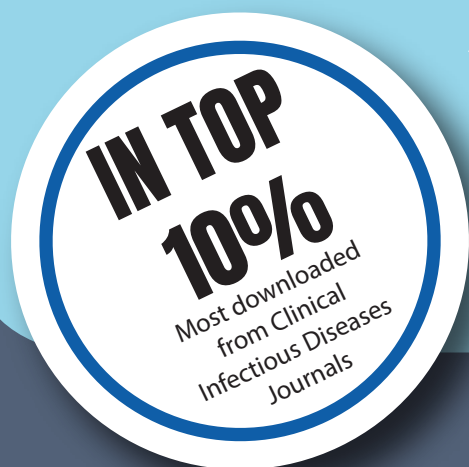
Z

Zafari Z, Sadatsafavi M, Chen W, FitzGerald JM. The projected economic and health burden of sub-optimal asthma control in Canada. *Respir Med*. 2018 May;138:7-12. doi: 10.1016/j.rmed.2018.03.018. PMID: 29724396

“

We found a substantial reduction of invasive pneumococcal disease (IPD) from vaccine serotypes in adults after introduction of the 13-valent pneumococcal conjugate childhood immunization program, but also a modest increase in non-vaccine serotype-related IPD.

”



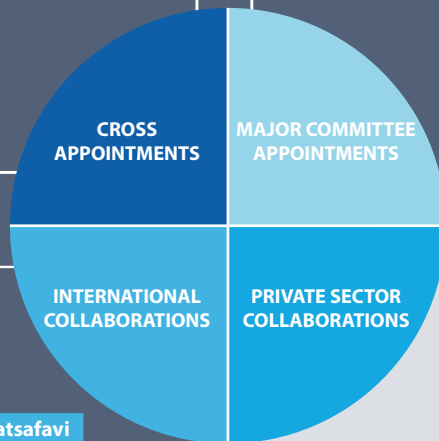
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IMPACT
FACTOR

Vadlamudi NK, Chen A, Marra F. Impact of 13-pneumococcal conjugate vaccine among adults: a systematic review and meta-analysis. Clin Infect Dis 2018; doi: 10.1093/cid/ciy872. [Epub ahead of print]

Collaborations

Annalijn Conklin	Larry Lynd	Peter Zed
Centre for Health Evaluation and Outcome Sciences	UBC Faculty of Medicine School of Population and Public Health	UBC Faculty of Medicine, Department of Emergency Medicine
UBC Faculty of Land and Food Systems	Centre for Health Evaluation and Outcome Sciences	Vancouver General Hospital
Women's Health Research Institute		Mohsen Sadatsafavi
Fawziah Lalji	Mark Harrison	Centre for Clinical Epidemiology and Evaluation
UBC Faculty of Medicine Division of Infectious Diseases	Centre for Health Evaluation and Outcome Sciences	UBC Faculty of Medicine Division of Respiratory Medicine
BC Centre for Disease Control	Arthritis Research Canada	
Mary De Vera	Neuroethics Canada	
Arthritis Research Canada	Peter Loewen	
	Vancouver General Hospital	

Fawziah Lalji	Mark Harrison	Peter Loewen
BC Ministry of Health Drug Benefits Committee	BC Health Technology Committee (Health Technology Assessment Committee)	Vice-Chair, BC Ministry of Health Expensive Drugs for Rare Diseases Advisory Committee
BC Ministry of Health - Drug Review and Resources Committee	Mary De Vera	Vice-Chair, Canadian Pharmacy Residency Board Standards Committee
Do Bugs Need Drugs Program, BC Centre for Disease Control	BC Ministry of Health Pharamnet Data Stewardship Committee	Association of Faculties of Pharmacy Education Committee
Larry Lynd	Peter Zed	Association of Faculties of Pharmacy Educational Outcomes Steering Committee
BC Ministry of Health Expensive Drugs for Rare Diseases Advisory Committee	Vice Chair, Drug Benefits Council, BC Ministry of Health	BC Health Authorities Pharmacy & Therapeutics Committee
Respiratory/Allergy Therapies - Health Canada Special Advisory Committee	Chair, BC Ministry of Health - Drug Review and Resources Committee	
	Non-Insured Health Benefits, Health Canada - Drugs and Therapeutics Advisory Committee (DTAC)	



Annalijn Conklin	Mohsen Sadatsafavi
Visiting Researcher, University of Cambridge MRC Epidemiology Unit, England	Core Member, Respiratory Effectiveness Group, England
Larry Lynd	International Severe Asthma Registry
Training, Support, & Mentorship Project, Maternal, Newborn and Child Health, Rwanda	Mark Harrison
Family Farms for the Future, Cambodia	Senior Research Fellow, University of Manchester Honorary Appointment, United Kingdom

Teaching

Undergraduate Courses

PHRM 100 - Foundations of Pharmacy:
Pharmacist, Patient, and Healthcare
Systems

PHRM 111 - Medication Management I

PHRM 131 - Study Design & Interpreta-
tion I

PHRM 211 - Medication Management II

PHRM 212 - Medication Management
III

PHRM 231 - Study Design and
Interpretation II

PHAR 311 - Medication Management IV

PHAR 312 - Medication Management V

PHAR 440 - Pain and Research
Therapy

PHAR 456 - Applied
Pharmacoeconomics

PHRM 481 -Healthcare Quality
Improvement

Graduate Courses

PHAR 560/ SPPH 549 - Advanced Economic Evaluation in Health Care

PHAR 533 - Clinical Clerkships I

PHAR 591 - Scholarly Integrity and Research Ethics

Annual Retreat

One of the highlights of 2018 was holding the inaugural CORE Annual Retreat. A huge success, the event was hosted at the enchanted False Creek - Creekside Community Centre, and was made possible thanks to generous sponsors from Merck and Boehringer Ingelheim.

In the morning session, the breadth of CORE research was showcased in a number of presentations including those that paired CORE faculty with respective trainees.

Topics discussed were:

Creating a niche in outcomes evaluation for precision medicine - the RESP precision medicine initiative

Dr. Mohsen Sadatsafavi & Kate Johnson, PhD Student

Unpacking the intersections for better chronic disease prevention and management

Dr. Annalijn Conklin

Patient-oriented pharmaceutical and health outcomes research

Dr. Mary De Vera & Nicole Tsao, PhD Candidate

Appropriate and effective health care: from individuals to populations

Dr. Mark Harrison & Ross Duncan, MSc Student

Population and public health research and the 13-valent pneumococcal conjugate vaccine

Dr. Fawziah Lalji & Nirma Vadlamudi, PhD Student

Health economics of genome-wide sequencing

Dr. Larry Lynd & Dr. Nick Dragojlovic, Research Associate

The afternoon featured an insightful visioning session lead by Dr. Larry Lynd. This included a Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis to discuss how CORE faculty, staff, and trainees envision CORE, challenges faced, and identifying areas for continued development for CORE.

The day concluded with a team building activity out on the False Creek waters where the CORE team went Dragon boating.



DRAGON BOATING

CONTACT

CORE.UBC.CA

EMPHASIS.CORE.UBC.CA

MILLIONDOLLARMEDS.COM

PHARMSCI.UBC.CA

RARE-DISEASES.CA

RESP.CORE.UBC.CA

Collaboration for Outcomes Research and Evaluation (CORE)

2405 Wesbrook Mall
Vancouver, BC Canada V6T 1Z3
1.604.822.9460

EMAIL info@core.ubc.ca

TWITTER @CORE_UBC

TWITTER @RareDxResearch

FACEBOOK COREatUBC

Editor & Designer
Alexander Lin

Photographer
Justin Ohata

For questions or comments info@core.ubc.ca

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