



SAMEER DESAI

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EDUCATION

- present
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2017

● **Ph.D. Candidate, Population and Public Health**
University of British Columbia  Vancouver, BC
- 2017
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2015

● **M.Sc., Population and Public Health**
University of British Columbia  Vancouver, BC

 - Thesis: Clinical Characteristics and Predictors of Survival Among Adults Newly Diagnosed with Cystic Fibrosis
- 2013
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2009

● **B.Sc., Health Sciences**
Simon Fraser University  Burnaby, BC

RESEARCH EXPERIENCE

- present
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2017

● **Research Methodologist**
Centre for Health Evaluation and Outcomes Sciences  Vancouver, BC

 - Assisted hospital researchers with research design methodology
 - Conducted statistical analysis: causal inference, observational and longitudinal data analysis, visualization, interpretation
 - Grant reviewing, abstract development
- 2019
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2018

● **Fellow**
BC Ministry of Health  Victoria, BC


 - Worked with the Ministry to investigate the geographical variation and risk factors for worse health outcomes in cystic fibrosis, this was an integrated project within my Ph.D. thesis as part of the Health System Impact Fellowship
- 2019
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2018

● **Graduate Research Assistant**
Centre for Health Services Policy and Research  Vancouver, BC

 - Constructed multilevel dataset and independently analyzed surgical outcomes from a longitudinal ankle surgery database
 - Data wrangling, visualization, statistical analysis using R and SAS
- 2017
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2016

● **Data analyst**
Doctors of BC  Vancouver, BC




 - Independently analyzed data for the Specialist Services Committee Project, Cystic Fibrosis in BC: Optimizing Care Across the Age Continuum
 - Formulated study protocol and data registry application, obtained ethics certification and summarized findings

- 2016 ● **Graduate Research Assistant**
Vancouver General Hospital  Vancouver, BC
- Assessed the risk of biases using the GRADE framework for a systematic review examining the effect a novel treatment for out-of-hospital cardiac arrest patients

EMPLOYMENT EXPERIENCE

- 2016
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2013 ● **Site coordinator and Clinical Research Assistant**
Children's Hospital  Vancouver, BC
- Served as a study coordinator for multiple prospective study bases evaluating the impact of surgical and non-surgical interventions for scoliosis
 - Involved in patient recruitment, chart review, data entry, ethics, and study protocol development
 - Introduced Clinical Research to undergraduate students
- 2013
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2010 ● **Junior Research Assistant**
Children's Hospital  Vancouver, BC
- Patient recruitment and data entry

TEACHING ASSISTANTSHIPS

- 2020
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2017 ● **Design and analysis of clinical trials**
University of British Columbia  Vancouver, BC
- Graduate level class
 - Graded course materials
- 2020 ● **Epidemiologic Methods II**
University of British Columbia  Vancouver, BC
- Intermediate level graduate course, covering study design principles, causal inference, confounding, effect measure modification, analysis of biases, and elements of data analyses
 - Assisted in the development of homework and exam questions, and graded course materials.
- 2020 ● **Introduction to Epidemiology**
University of British Columbia  Vancouver, BC
- Introductory level graduate class covering the foundations of epidemiology: description, study design, measures of disease frequency, measures of association, and evaluation of public health programs
 - Mentored students, assisted in the development of exam questions and graded course materials. Developed and maintained online course materials. Delivered tutorials in advance of exams.

2020

● **Analysis of Longitudinal Data**

University of British Columbia

📍 Vancouver, BC

- Advanced level graduate class covering statistical concepts and methods of analyzing correlated data
- Mentored students, helped instructor with lecture materials, graded projects, and final paper. Delivered tutorials on student-chosen topics.



PEER-REVIEWED PUBLICATIONS

- 2021 ● **The Surprise Question and Serious Illness Conversations: A pilot study.**
Nursing ethics, 2021. [doi:10.1177/0969733020983392](https://doi.org/10.1177/0969733020983392)
· K Le, J Lee , S Desai , A Ho, H van Heukelom
- 2021 ● **Clinical characteristics associated with lung function decline in individuals with adult-diagnosed cystic fibrosis: A contemporary analysis of the Canadian CF Registry**
CHEST, 2021 (in-press)
· S Desai, S Stanojevic, GY Lam, AL Stepehnson, BS Quon
- 2020 ● **Eligibility of CFTR Modulators for the Adult-Diagnosed Cystic Fibrosis Population**
Journal of Cystic Fibrosis 19 (5), 840-841, 2020.
· S Desai, GY Lam, J Sykes, A Stephenson, BS Quon
- 2020 ● **Factors Influencing Clinical Trial Participation for Adult and Pediatric Patients with Cystic Fibrosis**
Journal of Cystic Fibrosis, 20 (1), 57-60, 2020.
· M Lee, XY Hu, S Desai, E Kwong, J Fu, E Flores, L Lazosky, PG Wilcox, M McIlwaine, M Chilvers, C Yang, JH Rayment, BS Quon
- 2019 ● **Minimally Important Difference in the Foot and Ankle Outcome Score Among Patients Undergoing Hallux Valgus Surgery**
Foot and Ankle International 40 (6), 694-701, 2019.
· S Desai, A C Peterson, K Wing, A Younger, T Crump, G Liu, A Veljkovic, M Penner, J M Sutherland
- 2019 ● **A Systematic Review of the Clinical Efficacy and Safety of CFTR Modulators in Cystic Fibrosis**
Scientific Reports 9 (1), 7234, 2019.
· AR Habib, M Kajbafzadeh, S Desai, C Yang, K Skolnik, BS Quon
- 2019 ● **Impact of surgical wait times on oncologic outcomes in resectable pancreas adenocarcinoma**
Hepatico-Biliary, 2019
· E Vasilyeva, J Li, S Desai, SW Chung, CH Scudamore, M Segedi, PKW Kim
- 2019 ● **The impact of cystic fibrosis-related diabetes on health-related quality of life**
Journal of Cystic Fibrosis 18 (5), 734-736, 2019.
· E Kwong, S Desai, L Chong, K Lee, J Zheng, PG Wilcox, BS Quon

- 2019 ● **Predictors of Reduced Survival for Adult-diagnosed Cystic Fibrosis: Older Age at Diagnosis, a Substitute for Older Age?**
Annals of the American Thoracic Society 16 (5), 644-645, 2019.
· S Desai, H Wong, J Sykes, AL Stephenson, J Singer, BS Quon
- 2019 ● **Safety and Effectiveness of Lumacaftor-Ivacaftor in Adults with Cystic Fibrosis: A Single-Centre Canadian Experience**
Canadian Journal of Respiratory, Critical Care and Sleep Medicine, <https://doi.org/10.1080/24745332.2019.1649608>, 2019.
· V Sergeev, S Desai, E Flores, J Kerr, V Su, P Wilcox, BS Quon
- 2019 ● **Using postoperative patient-reported outcomes to predict ankle arthroplasty and arthrodesis revision**
Foot and Ankle International 41 (1), 10-16, 2019.
· S Desai, MJ Sutherland, A Younger, M Penner, A Veljkovic, Y Fardowsa, Wing K
- 2018 ● **Clinical characteristics and predictors of reduced survival for adult-diagnosed cystic fibrosis. Analysis of the Canadian CF Registry**
Annals of the American Thoracic Society 15 (10), 1177-1185, 2018.
· S Desai, H Wong, J Sykes, AL Stephenson, J Singer, BS Quon
- 2018 ● **Effects of targeted temperature management on mortality and neurological outcome: A systematic review and meta-analysis**
European Heart Journal: Acute Cardiovascular Care 7 (5), 467-477, 2018
· D Stanger, V Mihajlovic, J Singer, S Desai, R El-Sayegh, GC Wong
- 2018 ● **Improving quality and safety in paediatric spinal surgery: the team approach**
Bone and Joint Journal 100 (4), 493-498, 2018.
· F Miyajji, B Greer, S Desai, J Choi, J Mok, M Nitikman, A Morrison
- 2015 ● **Minimally invasive surgical options for adolescent idiopathic scoliosis**
Seminars in Spine Surgery 27 (1), 39-44, 2015
· F Miyajji, S Desai






WORKS IN PROGRESS OR RECENTLY SUBMITTED

- **Private religious or spiritual activities and life satisfaction: A population-based study**
Under-review (#JORH-D-20-00030)
· Lead author
· Submitted 01/20

- **Using the Surprise Question to identify patients for early Serious Illness Conversations: A pilot study**
Under-review (#NE-20-0374)
 - Co-author, analyzed data, drafting of manuscript
 - submitted 07/20
- **External validation of the LACE+ score to predict urgent readmission or death after hospital discharge**
Under-review
 - Co-author, verification of SAS code, drafting of manuscript
- **Clinical and Inflammatory Biomarkers Associated with Reduced Bone Mineral Density in Cystic Fibrosis Bone Disease**
Manuscript in preparation
 - Co-author, conducted analysis, interpretation, drafting of manuscript
- **Vitamin E and N-BP in CF**
Manuscript in preparation
 - Co-author, conducted analysis, interpretation, drafting of manuscript
- **The impact of an introductory psycho-educational group program on quality of life and readiness and motivation in a community-based eating disorders treatment centre.**
Manuscript in preparation
 - Co-author, conducted analysis, interpretation, drafting of manuscript
- **Lung function in adult-diagnosed CF**
Manuscript in preparation
 - Lead author
- **Predictors of Post-Operative Dysphagia in Cardiac Surgery**
Manuscript in preparation
 - Co-author, conducted analysis, interpretation, drafting of manuscript

SELECTED CONFERENCE ABSTRACTS AND POSTERS

- 2020 ● **Early Serious Illness Conversation in medicine**
Geriatric Services Conference  Vancouver, BC
 - Cancelled due to COVID-19 pandemic
- 2020 ● **The Association between Bacterobilia and the Postoperative Course after Whipple Resection**
American HPB Association  Miami, USA
- 2020 ● **Elevated Peripheral Blood Eosinophil Count is Predictive of Lung Function Decline in Adults with Cystic Fibrosis**
North American Cystic Fibrosis Conference  Virtual

- 2019 ● **The impact of cystic fibrosis related diabetes on health-related quality of life**
North American Cystic Fibrosis Conference 📍 Colorado, USA
- 2019 ● **Predictors of lung function decline in adult- diagnosed cystic fibrosis**
European Cystic Fibrosis Conference 📍 Liverpool, UK
· Poster presenter
- 2019 ● **Serum biomarkers of CF-related bone disease**
North American Cystic Fibrosis Conference 📍 Nashville, USA
- 2019 ● **A renal walking program to improve patient care**
Quality Forum 📍 Vancouver, BC
- 2018 ● **A survey to better understand the barriers and facilitators to research participation for individuals with CF**
North American Cystic Fibrosis Conference 📍 Colorado, USA
- 2018 ● **Factors associated with dysphagia in post-operative cardiac surgery**
Canadian Cardiovascular Congress 📍 Toronto, CA
- 2018 ● **Are adult Acute Lymphoblastic Leukemia patients treated with vincristine chemotherapy experiencing decreases in ankle dorsiflexion range of motion and lower extremity function**
Physiotherapy Congress 📍 Montreal, CA
- 2018 ● **Predictors of Lung Function Decline in Adult-Diagnosed Cystic Fibrosis**
Engage Heart Lung Health FEST Conference 📍 Vancouver, BC
- 2018 ● **Predictors of Post-Operative Dysphagia in Cardiac Surgery**
Canadian Cardiovascular Congress 📍 Vancouver, BC
- 2017 ● **Clinical Characteristics and Predictors of Survival Among Adults Newly Diagnosed with Cystic Fibrosis**
Engage Heart Lung Health FEST Conference 📍 Vancouver, BC
· Poster presenter
- 2017 ● **Relationship between early and overall changes in CFRSD-CRIS and FEV₁ during the treatment of CF pulmonary exacerbations**
North American Cystic Fibrosis Conference 📍 Indianapolis, USA
- 2017 ● **Clinical Characteristics and Predictors of Reduced Survival for Adult-Diagnosed Cystic Fibrosis Patients**
North American Cystic Fibrosis Conference 📍 Indianapolis, USA
· Poster presenter
- 2016 ● **Genotypes of adult-diagnosed Cystic Fibrosis patients and eligibility for currently available mutation-specific CFTR modulators**
North American Cystic Fibrosis Conference 📍 Orlando, USA



SELECTED INVITED TALKS

- 2019 ● **Clinical relevance of commercially-available CFTR modulators for the adult-diagnosed CF population**
BC CF Research Day, Children's Hospital 📍 Vancouver, BC
· Invited presentation for first annual BC CF Research Day
- 2018 ● **Predictors of Lung function decline in adult-diagnosed cystic fibrosis**
Lung Function Rounds, St. Paul's Hospital 📍 Vancouver, BC
· Invited presentation during HLI lung function rounds
- 2017 ● **Clinical Characteristics and Survival for Adult Diagnosed Cystic Fibrosis Patients**
Lung Function Rounds, St. Paul's Hospital 📍 Vancouver, BC
· Invited presentation during HLI lung function rounds
- 2017 ● **Clinical Characteristics and Survival for Adult Diagnosed Cystic Fibrosis Patients**
North American Cystic Fibrosis Conference 📍 Indianapolis, USA
· Invited presentation during epidemiology session




GRANTS AND AWARDS

- 2020 ● **President's Academic Excellence Initiative PhD Award**
University of British Columbia
- 2019 | 2018 ● **Health System Impact Fellowship**
Canadian Institutes of Health Research Strategic Training Program Award
· \$50K x 1 year
· Project: Geographical variation and temporal trends in mortality, morbidity, and health care service use for cystic fibrosis patients in British Columbia
- 2019 | 2017 ● **Doctoral Studentship**
CF Canada
· \$15K x 2 years
· Project: Epidemiological, clinical, and economic trends in cystic fibrosis patients in British Columbia from 2000 to 2017
- 2017 ● **Graduate Student Travel Award**
University of British Columbia

- 2016 ● **Grant**
Rare disease foundation
 - \$5K
 - Project: Cystic Fibrosis in BC: Transitioning from Pediatric to Adult Care
- 2016 ● **Scholarship**
Kamrul Suleman Bhamji Foundation
 - \$500
- 2015 ● **Grant**
Rare disease foundation
 - \$5K
 - Project: Clinical Characteristics and Predictors of Survival Among Adults Newly Diagnosed with Cystic Fibrosis
- 2015 ● **Award**
Faculty of Medicine Graduate Award
 - \$1,500
 - GPA-based merit
- 2013 ● **Dean's Honour Roll**
Simon Fraser University

THESES

- 2017 ● **Clinical Characteristics and Predictors of Reduced Survival for Adult-Diagnosed Cystic Fibrosis Patients: A population based study¹**
University of British Columbia  Vancouver, BC
 - M.Sc. Dissertation

HEALTH WRITINGS


- 2020 ● **The Potential Impact of Canada's Proposed National Pharmacare Program on Rare Diseases²**
sameerdesail.wordpress.com
 - Policy essay
- 2020 ● **Descriptive studies: what are they and are they useful?³**
sameerdesail.wordpress.com

- 2020 ● **The least talked about study design: the ecological study⁴**
sameerdesail.wordpress.com

SELECTED PRESS

- 2019 ● **Nordic Walking Benefits Kidney Patients at St. Paul's, study finds⁵**
The Daily Scan
- 2019 ● **Diabetes and Insulin Treatment Adds to CF Burden and Ways Are Needed to Ease It, Study Says⁶**
Cystic Fibrosis News Today
- 2018 ● **Later diagnosis predicts poorer outcomes in adult-diagnosed cystic fibrosis⁷**
CHEST Physician

COMMUNITY INVOLVEMENT

- 2019 ● **Mentor**
University of British Columbia  Vancouver, BC
- Graduate mentor for incoming graduate students at the School of Population and Public Health
- 2018 ● **Mentor**
Nancy Sun, B.Sc.
- Project: Predictors lung function decline in adult-diagnosed CF
- **Manuscript reviewer**
On-going
- Regularly assist supervisor peer-review for many specialized journals including American Journal of Respiratory and Critical Care Medicine, Journal of Cystic Fibrosis, Annals of American Thoracic Society, and Scientific Reports

LINKS

- 1: <https://open.library.ubc.ca/collections/ubctheses/24/items/1.0349192>
- 2: <https://sameerdesail.wordpress.com/2020/01/23/the-potential-impact-of-canadas-proposed-national-pharmacare-program-on-rare-diseases/>
- 3: <https://sameerdesail.wordpress.com/2020/01/23/descriptive-studies-what-are-they/>
- 4: <https://sameerdesail.wordpress.com/2020/04/01/ecological-study/>
- 5: <http://thedailyscan.providencehealthcare.org/2019/05/nordic-walking-benefits-kidney-patients-at-st-pauls-study-finds/>
- 6: <https://cysticfibrosisnewstoday.com/2019/04/29/diabetes-and-insulin-treatment-adds-to-cf-burden-and-ways-are-needed-to-ease-it-study-says/>
- 7: <https://www.mdedge.com/chestphysician/article/170307/pulmonology/late-diagnosis-predicts-poorer-outcomes-adult-diagnosed>