

Tolulope T. Sajobi, PhD

Cumming School of Medicine
University of Calgary

I. CONTACT ADDRESS

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Department of Community Health Sciences
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Present Rank: Assistant Professor of Biostatistics
Faculty of Medicine, University of Calgary

Research Interests Measurement and analysis of behavioural and patient-reported outcomes
Robust prediction models for health outcomes data
Statistical methods for design and analysis of clinical trials

II. ACADEMIC RECORD

Final degree	Doctor of Philosophy
Date completed	2012
Specialty	Biostatistics
Institution/City/Country	University of Saskatchewan, Saskatoon, Canada

Other Degrees

Degree	Master of Science
Date completed	2008
Specialty	Mathematical Statistics
Institution/City/Country	University of Windsor, Windsor, Canada

Degree	Bachelor of Science (<i>First Class Honors</i>)
Date completed	2004
Specialty	Statistics (Minor: Mathematics)
Institution/City/Country	Obafemi Awolowo University, Ile-Ife, Nigeria

III. AWARDS AND DISTINCTIONS

2016	Cutting Edge Research Conference Abstract Winner, International Society for Quality of Life
2013	Institute of Mathematical Statistics New Faculty Travel Award
2012	Canadian Institutes of Health Research HIV Research Network Postdoctoral Fellowship (<i>Declined</i>)
2012	Student Conference Abstract Winner, Canadian Society for Epidemiology and Biostatistics
2011	Best New Investigator Presentation Award Nomination, International Society for Quality of Life Research (ISOQOL)
2011	American Statistical Association Travel Award
2009	Eastern Canada Health Outcomes Conference Student Award
2009	University of Saskatchewan Graduate Student Travel Award
2009 – 2012	CIHR Vanier Canada Graduate Scholarship (Ranked 2nd out of 50 awardees)
2008 – 2009	University of Saskatchewan Doctoral Scholarship
2008	University of Manitoba Graduate Fellowship (<i>Declined</i>)
2008	PIMS/MITACS Summer School Student Travel Award
2007 – 2008	University of Windsor International Graduate Student Scholarship
2005	Nigerian National Youth Service Merit Award of Excellence
2004	Best Graduating Honors Student in Mathematics, Obafemi Awolowo University, Nigeria
2002	Higher Education Award, National Mathematical Center, Nigeria
2000	The Nigerian Arthur Andersen Book Award

IV. ACADEMIC APPOINTMENTS/AFFILIATIONS

Academic Appointments

07/2015 – Present	Assistant Professor (Tenure Track) Department of Community Health Sciences, University of Calgary
04/2014 – Present	Assistant Professor (Cross Appointment) Department of Clinical Neurosciences, University of Calgary
01/2013 – 06/2015	Assistant Professor (Contingent Term) Department of Community Health Sciences, University of Calgary

Affiliations

09/2016 – Present	Member, Libin Cardiovascular Institute of Alberta, University of Calgary
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01/2013 – Present Member, O'Brien Institute for Public Health, University of Calgary

01/2013 – Present Member, Hotchkiss Brain Institute, University of Calgary

V. EDUCATIONAL ACTIVITIES

i. Classroom Teaching

- 2016 - Present Statistics & Research Design in Health Sciences (MDSC 407)
 Bachelor of Health Sciences Program, Department of Community Health Sciences
 Description: Participants are primarily undergraduate students in the BHSc program
 Duration: 13 weeks with 8.5 contact hours per week
 2017: 77 participants
 2016: 75 participants
 Role: Course Coordinator/Instructor
- 2016 - 2017 Health Research Methods (MDCH 681)
 Department of Community Health Sciences, University of Calgary
 Description: Participants are graduate students in the department (core course)
 Role: Guest Lecturer
 2017: 3 contact hours
 2016: 2 contact hours
- 2014 Models for Repeated Measures Studies and Time-To-Events Studies (MDCH 612)
 Department of Community Health Sciences, University of Calgary
 Description: Participants are graduate students in the department (core course)
 Duration: 13 weeks with 5 contact hours per week (6 participants)
 Role: Course Coordinator/Instructor
- 2013 MDCH 611 – Biostatistics II: Models for Health Outcomes
 Department of Community Health Sciences
 Description: Participants are graduate students in the department (core course)
 Role: Guest Judge and Evaluator 1 session of 4 contact hours (25 participants)
- 2011 PUBH 842 Current Biostatistical Methods and Computer Applications,
 School of Public Health, University of Saskatchewan
 Description: Participants are graduate students in the school
 Role: Guest lecturer (1 session 3 contact hours, 19 participants)

- 2009 CHEP 800.3 – Introduction to Epidemiology
School of Public Health, University of Saskatchewan
Description: Participants are Masters of Public Health graduate students (21 participants)
Role: Instructor (5 sessions)
- 2008 62-130- Elements of Calculus
Department of Mathematics & Statistics, University of Windsor
Description: Participants are undergraduate students (60 participants)
Role: Teaching assistant (12 sessions, 5 hours per week)
- 2007 - 2008 62-194 – Mathematics for Business
Department of Mathematics & Statistics, University of Windsor
Participants are first year undergraduate students in the school of business (120 participants)
Winter, Fall 2007; Winter 2008
Role: Teaching Assistant (13 sessions, 5 hours per week)
- 2004 – 2005 Introductory High School Mathematics,
Machina Local Government Secondary School, Machina, Yobe State, Nigeria
Participants are grade 10 high school students (46 students)

Duration: 39 weeks (3 terms; 13 weeks/term for 90 minutes/week)
Role: Course coordinator/Instructor

ii. Professional & Conference/Workshop Taught

- 2017 Fall Biostatistics Workshop for Resident Physicians
Postgraduate Medical Education, Cumming School of Medicine
Duration: 4 sessions with 3 contact hours per session
Participants: 24 Resident physicians
Role: Instructor
- 2016 Response shift: a review of the literature
Webinar (1.5 hours) delivered for the International Society for Quality of Life Research
Role: Co-instructor with Rick Sawatzky (Trinity Western University) & Ronak

Brahmbatt (University of Toronto)
Participants: 37 participants mostly from academia and industry

- 2013 Skewed data distributions: the issues, the options, and the solutions.
Workshop delivered for the Institute of Public Health Methodology Club,
University of Calgary, Calgary
Participants were research analysts and graduate students (10 – 12 participants)
Role: Instructor/Coordinator (10 sessions, 1 hour per week)
- 2013 Latent variable models for patient-reported outcomes.
Half-day workshop delivered at the 2013 Canadian Society for Epidemiology and
Biostatistics Biennial Conference, St Johns Newfoundland
Participants were mostly graduate students, postdoctoral fellows, and academics
(22 participants)
Role: Co-instructor with Lisa Lix (University of Manitoba)
- 2011 Statistical methods for response shift detection
Half-day workshop delivered at the 18th Annual Conference of the
International Society for Quality of Life, Denver, Colorado, USA
Participants were graduate students and researchers (15 participants)
Role: Co-instructor with Lisa Lix (University of Manitoba), Nancy Mayo (McGill
University), and Rick Sawatzky (Trinity Western University)

iii. Trainee Supervision

Graduate Students, Primary Supervision or Co-Supervision

- 2017 – Present Meaghan Reid (Primary Supervisor: Phil Barber)
Degree/Program: MSc Medical Science, Cumming School of Medicine, University
of Calgary
Topic: Vascular risk factors for dementia in transient ischemic attack patients
- 2016 – Present Anita Brobbey
Degree/Program: PhD Biostatistics, Department of Community Health Sciences,
University of Calgary
Topic: Robust classification models for multivariate longitudinal data
- 2016 – Present Todd Wilson (Primary Supervisor: Dr. Matthew James)
Degree/Program: PhD Epidemiology, Department of Community Health

Sciences, University of Calgary

Topic: Individualized risk prediction to support shared decision making for management of heart disease in patients with chronic kidney disease

2015 – Present

Brendan Cord Lethebe (Primary Supervisor: Dr. Tyler Williamson)

Degree/Program: MSc Biostatistics, Department of Community Health Sciences, University of Calgary

Topic: Improving case detection in electronic medical record databases through machine learning algorithms

2014 – 2015

Mohammad Zia Chowdhury (Co-supervised with Dr. Gordon Fick)

Degree/Program: PhD in Biostatistics, Department of Community Health Sciences, University of Calgary

Topic: Robust prediction tools for longitudinal designs with mixed outcomes

Summer Students, Primary Supervision

2017

Lian Caitlin Devry

Bachelors of Actuarial Sciences & Risk Management

Topic: Association between patient-reported outcomes and Indices of health-care utilization in coronary artery disease

2016

Abdillahi F. Abdillahi

Bachelor of Health Sciences, Cumming School of Medicine

Topic: Improving the accuracy of hypertension risk prediction models

2014/2015

Faizan Malik

Department of Biological Sciences, University of Calgary

Topic: Systematic review of minimum clinically important difference for generic patient-reported outcome measures

05/2014 – 08/2014

Gurbakhsh Singh (PhD student)

Department of Community Health Sciences, University of Calgary

Topic: Response shift detection in incomplete longitudinal health-related quality of life data

Graduate Student Supervisory Committees

- 2017 – Present Moiz Hafeez (Primary Supervisor: Dr. Bijoy Menon)
Degree/Program: Msc Medical Sciences, Cumming School of Medicine,
University of Calgary
Topic: Algorithm enhanced white gray-white matter non-contrast CT improves
reliability for ASPECTS scoring
- 2017 – Present Dr. Michael Yang (Primary Supervisors: Drs Jay Riva-Cambrin & Steve Casha)
Degree/Program: MSc Epidemiology, Department of Community Health
Sciences, University of Calgary
Topic: Predicting poor postoperative pain after spine surgery
- 2017 – Present Devone Boyne (Drs. Christine Friedenreich & Darren Brenner)
Degree/Program: PhD Epidemiology, Department of Community Health
Sciences, University of Calgary
Topic: Predicting chemotherapy discontinuation in colorectal cancer and its
impact on overall survival: Application and comparison of different statistical
learning models.
- 2017 – Present Hongwei Liu (Supervisors: Matthew James, Stephen Wilton)
Degree/Program: PhD Epidemiology, Department of Community Health Sciences
University of Calgary
Topic: Effect of cardiac rehabilitation on modifiable risk factors in patients with
coronary heart disease
- 2016 – Present Colin Weaver (Primary Supervisor: Dr. Tyler Williamson)
Degree/Program: MSc Biostatistics, Department of Community Health Sciences,
University of Calgary.
Topic: Use of primary care electronic medical record data to predict use and
repeated use of acute health care services
- 2016 – Present Chelsia Gillis (Primary Supervisor: Dr. Tanis Fenton)
Degree/Program: PhD in Epidemiology, Department of Community Health
Sciences, University of Calgary.
Topic: TBD
- 2014 – Present Dr. Colin B. Josephson (Primary Supervisors: Drs. Samuel Wiebe & Nathalie Jette)
Degree/Program: MSc in Epidemiology, Department of Community Health

Sciences, University of Calgary

Topic: Clinical decision support tools using big data

Completed Supervision & Supervisory Committee Membership

- 2013 – 2017 Gurbakhsh Singh (Primary Supervisor: Dr. Gordon Fick)
Degree/Program: PhD in Biostatistics, Department of Community Health Sciences, University of Calgary
Topic: Binary and Ordinal Outcomes: Considerations for the Generalized Linear Model with the Log Link and Identity Link
- 2015 – 2017 Dr. Carol Fenton (Primary Supervisor: Dr. Billie Thurston)
Degree/Program: MSc in Population and Public Health, Department of Community Health Sciences, University of Calgary.
Topic: Factors that contribute to aboriginal Canadian women’s resilience to intimate partner violence: a mixed methods longitudinal study
- 2015 – 2017 Pooneh Pordeli, Post-doctoral fellow (Co-supervised with Dr. Bijoy Menon)
Department of Community Health Sciences
Topic: Prediction of Stroke Outcomes using Imaging Data
Current Position: Statistical Scientist, Hoffmann-La Roche Limited, Toronto
- 2015 – July 2017 Anna Garber (Primary Supervisor: Marc Poulin)
Degree/Program: MSc in Cardiovascular & Respiratory Sciences, Department of Cardiac Sciences
Topic: Association between dietary glycemic load, physical activity, and cognitive functioning in older community dwelling adults.
- 2015 – 2017 Ruth Diaz (Primary Supervisor: Dr. Scott Patten)
Degree/Program: MSc in Epidemiology, Department of Community Health Sciences, University of Calgary.
Topic: The healthy immigrant effect on major depression in Canada varies with age
Current Position: TBD
- 2012 – 2016 Longlong Huang (Primary Supervisors: Drs. Xuen Lu & Karen Kopciuk)
Degree/Program: PhD in Statistics, Department of Mathematics & Statistics, University of Calgary

Topic: Variable selection in semi-parametric accelerated failure time models via regularized Smoothed rank regression

Current Position: Postdoctoral fellow, University of Ottawa

2014 – 2016

Kathryn Wiens (Primary Supervisor: Dr. Scott Patten)

Degree/Program: Msc in Epidemiology, Department of Community Health Sciences, University of Calgary

Topic: Is the Prevalence of Major Depression Increasing in Canadian Adolescents? Assessing Trends from 2000 to 2014

Current Position: PhD Student, University of Toronto

2014 – 2016

Connor Batchelor (Primary Supervisor: Dr. Bijoy. Menon)

Degree/Program: MSc in Neuroscience, Department of Community Health Sciences, University of Calgary

Topic: Predicting the Risk of Intracerebral Haemorrhage in Patients with Acute Ischemic Stroke Receiving IV-alteplase with or Without Endovascular Thrombectomy

Current Position: NA

2014 – 2016

Stephanie Gill (Primary Supervisor: Drs. Marc Poulin & Dr. Christine Friedenreich)

Degree/Program: Msc in Neuroscience, Department of Community Health Sciences, University of Calgary

Topic: Association between Lifetime Physical Activity and Cognitive Functioning in Middle-Aged and Older Community Dwelling Adults: Results from the *Brain in Motion* Study

Current Position: In Medical School

iv. Graduate Examination Committees

2017

External Examiner, MSc Thesis Examination for Oyindamola Jaja

Faculty of Health Sciences, University of Lethbridge (Supervisor: Olu Awosoga)

Topic: A survey of public knowledge and attitude related to antibiotic use and antibiotic resistance in southwest Alberta

2016

External Examiner, PhD Dissertation Examination for Guowei Li

Department of Clinical Epidemiology & Biostatistics, McMaster University (Supervisor: Dr. Lehana Thabane)

Topic: Methodological issues in prediction models and data analyses using observational and clinical trial data

- 2016 Internal-External Examiner PhD Candidacy Examination Committee for Wenyan Zhong
Department of Mathematics and Statistics (Supervisor: Dr. A. De Leon)
Topic: Group selection in semiparametric transformation models for right-censored data
- 2015 Internal-External Examiner MSC Thesis Examination for Farmidha Yeasmin
Department of Mathematics and Statistics – (Supervisor: Dr. A. De Leon)
Topic: Analysis of serially dependent multivariate longitudinal non-Gaussian continuous data
- 2014 Internal-External Examiner PhD Candidacy Examination Committee for Tasnima Abedin
Department of Mathematics and Statistics – (Supervisors Dr. Jingjing Wu)
Topic: Inference for two-component mixture models
- 2013 Internal-External Examiner for PhD Oral Examination for Beilei Wu
Department of Mathematics and Statistics – (Supervisor: Dr. A. De Leon)
Topic: Contributions to copular modelling of mixed discrete-continuous outcomes.

VI. ADMINISTRATIVE RESPONSIBILITIES

Cumming School of Medicine

- 2017 – Hotchkiss Brain Institute Neuro-Research Clinics Initiative Executive Committee
- 2016 – Cumming School of Medicine Health Informatics Task Force
- 2016 Search & Selection Committee, Department of Community Health Sciences
- 2016 – Department of Community Health Sciences Scholarship Application Review
- 2016 – Graduate Education Committee, Department of Community Health Sciences
- 2015 – Working Group Committee, World Health Organization Collaborating Centre
- 2015 Co-Chair, Clinical Research Unit Methods/Analytics Round
- 2015 – Statistics Lead, O’Brien Institute for Public Health Methods Hub
- 2015 – Department of Community Health Sciences Graduate Student Admission Panel
- 2015 – Poster Presentation Judge, Leaders in Medicine Student Research Day
- 2015 – Poster Present Judge, Libin Cardiovascular Institute of Alberta Research Day
- 2014 – University of Calgary Biostatistics Center Inaugural Committee
- 2014 – 2015 Search & Selection Committee, Department of Clinical Neurosciences
- 2013 – 2015 Steering Committee, Clinical Research Unit, University of Calgary

2013 – Biostatistics Specialization Chair, Department of Community Health Sciences, University of Calgary

University

2016 – University of Calgary Biostatistics Graduate Education Oversight Committee
 2016 Chair, Registry-based Randomized Controlled Trials Symposium, Calgary
 2015 Co-Chair, University of Calgary Biostatistics Center Workshop on Missing Data

National/International

2017 - New Investigators Committee, Statistical Society of Canada
 2017 – International Data Safety Monitoring Committee, SIRCCA Randomized Controlled Trial (Sponsored by Sirtex Technology Pty Ltd, Australia)
 2017 – Scientific Officer, Canadian Institute of Health Research Review Panel
 2017 – Organizer, Invited Session on Registry-based trials, Annual Meeting of the Statistical Society of Canada
 2016 – Co-chair, Response Shift Special Interest Group of the International Society for Quality of Life
 2016 – Abstract Reviewer, Annual Meeting of the International Society for Quality of Life
 2015 – Canadian Institutes of Health Research College Reviewer
 2013 – Scientific Committee Member, Health Research Ethics Board of Alberta

Staff Supervision

2016 - Meng Wang, Statistical Analyst
 Department of Clinical Neurosciences, University of Calgary
 2015 – Zhiying Liang, Statistical Analyst
 Department of Community Health Sciences, University of Calgary
 2014 – 2015 Yukun Zhang, Statistical Analyst
 Department of Clinical Neurosciences, University of Calgary

VII. PROFESSIONAL ACTIVITIES

Professional Memberships

2009 – Present Statistical Society of Canada
 2010 – Present American Statistical Association
 2011 – Present International Society for Quality of Life
 2011 – Present Canadian Society of Epidemiology and Biostatistics
 2016 – Present Society for Clinical Trials

Journal Peer-Reviews

2016 – Present	BMC Pilot and Feasibility Studies (3)
2015 – Present	BMC Medical Research Methodology (3)
2016	International Journal of Stroke (3)
2015 – 2016	Journal of Cutaneous Medicine & Surgery (Statistical Editor)
2015 – Present	British Medical Journal (6)
2015	Wound Repair and Regeneration (2)
2014 – Present	Communications in Statistics (2)
2014 – Present	Epilepsia (5)
2014 – Present	Journal of Modern Applied Statistical Methods (3)
2012 – Present	Psychological Methods (5)
2012 – Present	Quality of Life Research (12)
2013 – 2015	Journal of the Nigerian Mathematical Society (5)
2014	Frontiers in Quantitative Psychology and Measurement (2)
2013	Canadian Medical Association Journal

VIII. RESEARCH SUPPORT

Peer-Reviewed Research Grants Awarded

2017 – 2022	On discrimination in multivariate repeated measures data <u>Funding Agency:</u> National Science and Engineering Research Council <u>Principal Investigator:</u> Tolulope Sajobi <u>Amount:</u> \$70,000
2017 – 2022	Prevention of post-traumatic contractures with ketitofen <u>Funding Agency:</u> United States Department of Defense FY16 Orthopedic Clinical Trial Award <u>Principal Investigator:</u> Kevin Hildebrand <u>Co-investigator:</u> Prism Schneider, Michael Bosse, Tolulope Sajobi , Tanja Harrison, Nicholas Mohtadi, Richard Walker <u>Amount:</u> \$2,692,577
2017 – 2019	A longitudinal study of determinants of severity and burden of disease in persons with migraine <u>Funding Agency:</u> Calgary Centre for Clinical Research <u>Principal Investigator:</u> Tolulope Sajobi <u>Co-investigators:</u> Farnaz Amoozegar, Nathalie Jette, Scott Patten <u>Amount:</u> \$32,000

- 2017 University of Calgary Faculty Travel Award
Principal Investigator: Tolulope Sajobi Amount: \$1,500
- 2016 – 2018 Developing a vascular risk factor surveillance system: Exploring the "big data"
Funding Agency: Cumming School of Medicine Clinical Research Fund Grant
Principal Investigator: Guanmin Chen
Co-investigators: Tolulope Sajobi, Hude Quan, Robin Walker
Amount: \$26,400
- 2016 – 2021 Imaging tools for quick and appropriate triage of stroke patients.
Funding Agency: Canadian Institutes for Health Research
Principal Investigator: Bijoy Menon
Co-Investigators: Mayank Goyal, Michael Hill, Nils Forkert, Chris d’Esterre, Ting Lee, Tolulope Sajobi, Andrew Demchuk, Richard Frayne
Amount: \$573,375
- 2016 – 2020 Enhancing clinical decision support for prevention of contrast-induced acute kidney injury in cardiac catheterization
Funding Agency: Alberta Innovates Health Solutions: Partnership for Research and Innovation in the Health System (PRIHS)
Principal Investigators: M. James, M. Graham
Co-Investigators: Colleen Norris, Braden Manns Ben Tyrell, Neesh Pannu, Tolulope Sajobi, Stephen Wilton, Scott Klarenbach, Bryan Har, David Allen, Merrill Knudtson, Mouhieddin Traboulsi, Kyla Crag Diane Galbraith, Angela Kealey
Amount: \$748,638
- 2016 – 2018 Social determinants of readmissions, emergency department visits, and mortality in medical inpatients
Funding Agency: Canadian Institutes of Health Research
Principal Investigators: William Ghali, Richard Musto
Co-investigators: Karen Tang, Maria Santana, Eddy Lang, Nick Falvo, Van Nguyen, Braden Manns, Tolulope Sajobi, Doreen Rabi, Jenny Godley
Amount: \$285, 000
- 2016 – 2019 An automated imaging tool for quick and appropriate triage of stroke patients
Funding Agency: Heart & Stroke Foundation Grant

- 2016 Registry-based randomized controlled trials: Opportunities, Challenges, & Solutions
Funding Agency: Hotchkiss Brain Institute Stroke Neuro Team
Principal Investigator: **Tolulope Sajobi**
Co-investigators: Michael Hill, Bijoy Menon Amount: \$2,000
- 2016 Registry-based randomized controlled trials: Opportunities, Challenges, & Solutions
Funding Agency: Department of Community Health Sciences, University of Calgary
Principal Investigator: **Tolulope Sajobi** Amount: \$500
- 2015 – 2018 Statistical methods for patient-reported outcomes measures
Funding Agency: Canadian Institutes of Health Research
Principal Investigators: Richard Sawatzky, **Tolulope Sajobi**
Co-investigators: Lisa Lix, Juxin Liu, Nancy Mayo, Wilma Hopman, Eric Bohm, Anne Gadderman, Kathryn Sibley, Stirling Bryan, Bruno Zumbo, Greg Webster, Xiuyun Wu, Lena Cuthbertson
Amount: \$309,765
- 2015 – 2020 Aerobic exercise for older adults at increased risk of ADRD: Harnessing translational physiology
Funding Agency: Canadian Institutes of Health Research
Principal Investigator: Marc Poulin
Co-investigator: Gail Eskes, Michael Hill, **Tolulope Sajobi**, Stewart Longman, Christen Friedenreich, Jayna Holroyd-Leduc, Bruce Pike, David Hogan, Patrick Hanly, Todd Anderson, Heather Hanson,
Amount: \$890, 551
- 2015 – 2020 Misutilization of laboratory tests: pathways to correction
Funding Agency: Canadian Institutes of Health Research Foundation Scheme
Principal Investigator: Chris Naugler Role: Program Expert
Amount: \$1,056,419
- 2015 – 2020 Better prediction and decision support tools to improve care and outcomes for patients with acute kidney injury

Co-investigators: Michael Hill, Andrew Demchuk, **Tolulope Sajobi**, Ting Lee, Nils Forkert, Bruce Pike
Amount: \$272, 271

2014 – 2017 Novel statistical methods for analyzing skewed data: Improving the accuracy of health data analysis to inform health policy and resource allocation
Funding Agency: MSI Foundation
Principal Investigator: **Tolulope Sajobi**
Co-investigators: Hude Quan, Mingshan Lu, Samuel Wiebe, Nathalie Jette, Peter Faris, Mark Lowerison
Amount: \$97,500

Completed Grants/Research Support

2014- 2016 A prognostic tool to inform management of acute coronary syndrome in people with kidney disease
Funding Agency: Canadian Institutes of Health Research
Principal Investigator: Matthew James
Co-investigators: Colleen Norris, Braden Manns, **Tolulope Sajobi**, Stephen Wilton, Merril Knudtson, Diane Galbraith
Amount: \$214,680

2014- 2015 Statistical methods for patient-reported outcome measures
Funding Agency: CIHR/Manitoba Regional Partnership Program Grant
Principal Investigator: Lisa Lix
Co-investigators: Nancy Mayo, Richard Sawatzky, Juxin Liu, **Tolulope Sajobi**, Wilam Hopman
Amount: \$65,000

2014- 2015 Ambulatory care sensitive conditions identified in hospital discharge data: Which admissions are deemed avoidable?
Funding Agency: University of Calgary Bridge Funding
Principal Investigator: Hude Quan
Co-investigators: Robin Walker, Elijah Dixon, Guanmin Chen, **Tolulope Sajobi**, William Ghali
Amount: \$31,000

2014 – 2015 New statistical approaches to inter and intra-provincial comparisons of regional

- and temporal trends in major depression prevalence and treatment,
Funding Agency: Addiction and Mental Health Strategic Network
Principal Investigator: Scott Patten
 Co-investigator: JianLI Wang, Andrew Bulloch, **Tolulope Sajobi**
Amount: \$15,000
- 2014 – 2015 Robust measures of relative importance for response shift detection in longitudinal health-related quality of life data
Funding Agency: University Grant Research Committee Seed Grant
Principal Investigator: **Tolulope Sajobi**
Co-investigator: Nathalie Jette, Scott Patten
Amount: \$14,863
- 2013 – 2014 Department of Community Health Sciences/Institute of Public Health New Faculty Start-Up Grant
Principal Investigator: **Tolulope Sajobi** Amount: \$20,000
- 2013 University Grant Research Committee Faculty Conference Travel Grant
Principal Investigator: **Tolulope Sajobi** Amount: \$1,500
- 2013 – 2014 Statistical Methods for Patient-Reported Outcomes Data
 University of Calgary VPR Starter Grant
Principal Investigator: **Tolulope Sajobi** Amount: \$5,000
- 2012 – 2014 Statistical Methods for Response Shift (PROM-RS)
Funding Agency: CIHR/ Saskatchewan Regional Partnership Program
Principal Investigator: Lisa M. Lix
Co-investigators: Nancy Mayo, Richard Sawatzky, Juxin Liu, **Tolulope Sajobi**, Wilam Hopman
Amount: \$139, 720
- 2010 – 2012 The Analysis of Longitudinal Health-Related Quality of Life Data: Statistical Methods for Response Shift
Funding Agency: Canadian Institutes of Health Research (CIHR) Operating Grant

Principal Investigator: Lisa Lix

Co-investigators: Nancy Mayo, Richard Sawatzky, Juxin Liu, **Tolulope Sajobi**

Amount: \$200,000

2009 – 2012 Statistical Procedures to Assess Longitudinal Change in Domains of Health-Related Quality of Life

Funding Agency: Canadian Institutes for Health Research Vanier Graduate Scholarship

Principal Investigator: **Tolulope Sajobi**

Amount: \$150,000

IX. INVITED ADDRESSES

Presenter underlined

A. Professional & Scientific Meetings

International

1. Registry-based trials: advantages, challenges, and opportunities (Presented by Lehana Thabane). Invited presentation at the Joint Meeting of the Society for Clinical Trials and International Clinical Trials Methodology Conference, Liverpool, United Kingdom, May 2017.
2. Scoping review of response shift methods: current reporting practices, research gaps, and recommendations for the International Society for Quality of Life. Cutting Edge Plenary Talk at the Annual Meeting of the International Society for Quality of Life, Copenhagen, Denmark, October 2016.
3. Practice effects detection in repeated cognitive assessments: Conceptual perspectives and methodological considerations. International Conference of Health Brain Aging and Dementia, Banff, AB; May, 2016.
4. Robust discriminant analysis models for multivariate non-normal repeated measures data. Joint Statistical Meeting, Seattle WA, USA; August, 2015.
5. Statistical methods for evaluating domain importance in health-related quality of life. Presented at Clinical Research Unit, Children's Hospital Boston, Boston, USA; March 2012.
6. Statistics in bio-medical research: opportunities for interdisciplinary collaborations. Presented at Statistics in the 21st Century International Workshop, Obafemi Awolowo University, Ile-Ife, Nigeria. December 2010.

National

7. On discrimination and classification in multivariate longitudinal designs. Invited Presentation at the University of Windsor Department of Mathematics & Statistics Colloquium Series, Windsor, ON, October 2017.
8. Statistical methods for synthesizing evidence from explanatory and pragmatic trials. Invited presentation at the Annual Meeting of the Statistical Society of Canada, Winnipeg, Manitoba, June 2017.
9. Registry-based Trials. Invited presentation at the Annual Meeting of the Statistical Society of Canada, Winnipeg, Manitoba, June 2017.
10. Randomized Registry-based Trials: Opportunities, Challenges, and Solutions. Invited presentation at the Joint Meeting of the Society for Clinical Trials and International Clinical Trials Methodology Conference, Liverpool, United Kingdom, May 2017.
11. On discrimination in multivariate non-normal repeated measures data. Annual Meeting of the Statistical Society of Canada, Halifax, NS; June, 2015.
12. Identifying response shift effects in incomplete longitudinal data. George & Fay Yee Centre for Health Innovation Grand Rounds, University of Manitoba, Winnipeg, MB; December 2014.
13. Health-related quality of life of persons with epilepsy: The influence of epilepsy surgery and changing expectations about seizure freedom. Department of Nursing, Trinity Western University, Langley, BC; December, 2014.

Local

14. Tri-Council \neq CIHR: NSERC, not a four-letter word= Natural Sciences and Engineering Research Council of Canada. Invited Panel Discussion at the O'Brien Institute for Public Health Seminar Series, University of Calgary, Calgary, AB, April, 2017.
15. Longitudinal trajectories of health-related quality of life in coronary artery disease patients. APPROACH National Meeting, Calgary, September 2016.
16. Health data analytics: tricks of the trade. Ward of the 21st Century, University of Calgary, Calgary; June, 2016.
17. Statistical methods for detecting practice effects in neuropsychological testing in healthy older

adults. Active Living for Healthy Brains: A Community Engagement Event, University of Calgary, Calgary; April, 2016

18. Changing values, changing outcomes: The role of response shift on health outcome assessment in patients with epilepsy. Department of Community Health Sciences/Institute of Public Health Seminar, University of Calgary, Calgary, AB; March 2014
19. Modeling hospital length of stay: A comparison of regression models for skewed data. Presented at the Clinical Research Unit Research Rounds, University of Calgary, April 2013
20. Statistical methods for evaluating response shift in patient-reported outcomes. Presented at the Department of Population Health Research, Alberta Health Services, Calgary, AB; April 2013.
21. Statistical inference for variable importance: A comparison of test procedures for evaluating statistical significance of discriminant function coefficients. Presented at the Department of Mathematics & Statistics, University of Calgary, Calgary, AB; April 2013
22. Robust descriptive discriminant analysis for repeated measures data. Presented at the Statistics-Biostatistics Seminar Series, University of Saskatchewan; November 2011.

X. PUBLICATIONS

Peer-Reviewed Manuscript Publications (n = 63)

Trainee as first- or co-author underlined

1. Patten SB, Williams JVA, Lavorato DH, Woolf B, Wang JL, Bulloch AGM, **Sajobi T**. Major depression and secondhand smoke exposure. *Journal of Affective Disorder* 2018; 225: 260-264.
2. **Sajobi TT**, Brahmabhatt R, Lix LM, Zumbo BD, Sawatzky R. Scoping review of response shift methods: current reporting practices and recommendations. *Quality of Life Research* 2018; in press.
3. **Sajobi TT**, Lix LM. Robust measures of variable Importance for multivariate group designs. *Journal of Modern Applied Statistical Methods* 2017; in press.
4. **Sajobi TT**, Fick GH, Lix LM. On statistical significance of discriminant function coefficients. *Journal of Modern Applied Statistical Methods* 2017; in press.

5. **Sajobi TT**, Singh G, Lowerison M, Engbers J, Menon BK, Demchuk AM, Goyal M, Hill MD. Minimal sufficient balance randomization for sequential randomized controlled trial designs: Results from the ESCAPE trial. *Trials* 2017; 18:516.
6. Yu AYZ, Rogers E, Wang M, **Sajobi TT**, Coutts SB, Menon BK, Hill MD, Smith EE. Population-based study of home-time by stroke type and correlation with modified Rankin score. *Neurology* 2017; 89(19): 1970-1976.
7. Sawatzky R, Russell LB, **Sajobi TT**, Lix LM, Kopec J, Zumbo BD. The use of latent variable mixture models to identify invariant items in test construction. *Quality of Life Research* 2017; [Epub ahead of print].
8. Josephson CB, Gonzalez-Izquierdo A, Denaxas S, Fitzpatrick NK, **Sajobi TT**, Engbers JDT, Patten S, Jette N, Wieb S. Serotonin reuptake inhibitors and mortality in epilepsy: A linked primary-care cohort study. *Epilepsia* 2017; 58(11): 2002-2009.
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Unpublished Technical Reports

1. **Sajobi TT**, Hlynka MH. Computational algorithm for deriving limiting stationary distributions for Fibonacci-like Markov chain transition probability matrices. Department of Mathematics & Statistics, University of Windsor, Windsor, ON; 2008.
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Contributed Conference Presentations (n = 110)

**Trainee as lead or co presenter underlined*

1. Lethebe B, Ronksley P, Quan H, **Sajobi T**, Williamson T. Using machine learning to develop case definitions for common chronic diseases in a primary care electronic medical record database.

Accepted for presentation at the Annual Meeting of the North American Primary Care Research Group, Bethesda, Maryland, US, November 2017.

2. Weaver C, McBrien K, **Sajobi T**, Ronksley P, Lethebe BC, Williamson T. Using primary care electronic medical record data and machine learning to predict use of acute care use. Accepted for presentation at the Bi-annual Meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
3. **Sajobi TT**, Menon BK, Hill MD, Quan H, Wiebe S. A comparison of cost-sensitive classifiers for predicting rare outcomes. Accepted for presentation at the Western Canadian Universities Big Data Health Conference, Banff, AB, September 2017.
4. **Sajobi TT**, Sawatzky R, Russell L, Liu J, Zumbo BD, Lix L. Accuracy of latent class item response theory models for measurement invariance: A simulation study. Presented at the Annual Meeting of the International Society for Quality of Life, Philadelphia, Pennsylvania, US, October 2017.
5. Awosoga O, Santana M, Southern D, Brobbe A, Lu M, Quan H, Norris C, James M, Lix L, **Sajobi TT**. Estimating Longitudinal changes in health-related quality of life in coronary artery disease: a comparison of longitudinal models. Presented at the Annual Meeting of the International Society for Quality of Life, Philadelphia, Pennsylvania, US, October 2017.
6. Lix LM, Zhang L, Ayilara O, **Sajobi TT**, Sawatzky R, Bohm E. Treatment of missing data in clinical registries: A comparison of approaches for estimating change in patient-reported outcomes. Presented at the Annual Meeting of the International Society for Quality of Life, Philadelphia, Pennsylvania, US, October 2017.
7. Russell L, Sawatzky R, Goldsmith L, Lix L, **Sajobi T**, Gadermann A, Bryan S. Comparing patient-reported outcomes of satisfied and not-satisfied total knee arthroplasty patients: an analysis of differential item functioning. Presented at the Annual Meeting of the International Society for Quality of Life, Philadelphia, Pennsylvania, US, October 2017.
8. Sawatzky R, Russell L, **Sajobi TT**, Lix M, Kopec J, Zumbo BD. The use of latent variable mixture models to identify invariant items for the measurement of patient-reported. Accepted for presentation at the Annual Meeting of the International Society for Quality of Life, Philadelphia, Pennsylvania, US, October 2017.

9. Schnieder PS, Mohtadi N, **Sajobi TT**, Wang M, Garven A, Hildebrand KA. Randomized, placebo-controlled clinical trial evaluating ketotifen fumarate in reduction of post-traumatic elbow joint contracture. Presented at the 72nd Annual Meeting of the American Society for Surgery of the Hand, San Francisco, California, USA, September 2017.
10. Weaver C, McBrien K, **Sajobi T**, Ronksley P, Lethebe BC, Williamson T. Using primary care electronic medical record data and machine learning to predict use of acute care. Presented at the Bi-annual Meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
11. Brobbey A, Williamson T, Nettel-Aguirre A, Wiebe S, **Sajobi TT**. Dynamic risk prediction models: a comparison of regression and machine learning classifiers for longitudinal designs. To be presented Western Canada Universities Big Data Health Conference, Banff, AB, September 2017.
12. **Sajobi TT**, Menon BK, Josephson CB, Hill MD, Quan H, Wiebe S. A comparison of cost sensitive machine learning classifiers for predicting rare outcomes. Western Canada Universities Big Data Health Conference, Banff, AB, September 2017.
13. Yu AYG, Rogers E, Wang M, **Sajobi T**, Coutts SB, Menon BK, Hill MD, Smith EE. Home-time after acute ischemic stroke is associated with prospectively collected mRs. 2017 Canadian Stroke Congress, Calgary, AB, September 2017.
14. Brobbey A, Tyler Williamson, Samuel Wiebe, **Sajobi TT**. Longitudinal classification models: A comparison of methods. Presented at the Annual Meeting of the Statistical Society of Canada, Winnipeg, June 2017.
15. Weaver C, McBrien K, **Sajobi T**, Ronksley P, Lethebe B, Williamson T. Using primary care electronic medical record data and machine learning to predict use of acute care services. Presented at the Bi-annual Meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
16. Lethebe B, Ronksley P, Quan H, **Sajobi T**, Williamson T. Using machine learning methods to create chronic disease case definitions in a primary care electronic medical record. Presented at the Bi-annual Meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
17. Brobbey A, Wiebe S, Wang M, Liang Z, Goodwin S, Ferro M, Speechley K, **Sajobi T**. Longitudinal trajectories of disease severity in children with epilepsy. Presented at the Bi-annual Meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.

18. Wang M, Wiebe S, Brobbey A, Liang Z, Goodwin S, Ferro M, Speechley K, **Sajobi TT**. Trajectories of parent-reported health-related quality of life in children with new-onset epilepsy. Presented at the Bi-annual Meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
19. Liang Z, Awosoga O, Santana M, James M, Quan H, Norris C, **Sajobi TT**. Age and Sex Measurement Invariance of the Medical Outcome Study Social Support Scale in Coronary Artery Disease. Presented at the Bi-annual meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
20. Wang M, Speechely K, Ferro M, Brobbey A, Liang Z, Goodwin S, Wiebe S, **Sajobi T**. Trajectories of physical and psychosocial functioning in children with epilepsy: The moderating role of parental depression. Presented at the Bi-annual meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
21. Lawal O, **Sajobi TT**, Tyndall AV, Drogos LL, Longman S, Eskes G, Poulin MJ. Characterization of adherence to exercise interventions in healthy older adults: Results from the *Brain-in-Motion* study. Presented at the Bi-annual meeting of the Canadian Society for Epidemiology and Biostatistics, Banff, AB, June 2017.
22. Liang Z, Santana M, Wang M, Southern D, Awosoga O, Quan H, **Sajobi T**. Perceived social support trajectories and all-cause mortality risk in coronary artery disease. Presented at the Annual Meeting of the Canadian Association of Health Services & Policy Researchers, Toronto, ON, May 2017.
23. **Sajobi T**, Santana M, Wang M, Southern D, James M, Lu M, Quan H. The prognostic utility of patient-reported outcomes for risk prediction in coronary artery disease. Presented at the Annual Meeting of the Canadian Association of Health Services & Policy Researchers, Toronto, ON, May 2017.
24. **Sajobi TT**, Awosoga O, Wang M, Brobbey A, Li G, Menon B, Hill M, Thabane L. On synthesis of evidence from explanatory and pragmatic trials: A comparison of meta-analytic methods. Presented at the Annual Meeting of the Society for Clinical Trials, Liverpool, UK, May 2017.
25. Wang M, Wiebe S, Brobbey A, Liang Z, Goodwin S, Ferro M, Speechley K, **Sajobi TT**. Trajectories of parent-reported health-related quality of life in children with new-onset epilepsy. Presented at the Annual Calgary Epilepsy Programme/HBI Neuro Team Symposium, Calgary, AB, March 2017.

26. Brobbe A, Wiebe S, Wang M, Liang Z, Goodwin S, Ferro M, Speechley K, **Sajobi T**. Longitudinal trajectories of disease severity in children with epilepsy. Presented at the Annual Calgary Epilepsy Programme/HBI Neuro Team Symposium, Calgary, AB, March 2017.
27. Beaudin AE, Hanly PJ, Raneri JK, **Sajobi TT**, Anderson TJ, Poulin MJ. Cerebrovascular and cardiorespiratory responses to hypoxia in OSA patients free of overt cardiovascular disease: Effect of nocturnal oxygen and CPAP therapies. Presented at the *20th International Hypoxia Symposium*. Lake Louise, Alberta, Canada: February 7, 2017.
28. Josephson CB, Gonzalez-Izquierdo A, Denaxas S, Fitzpatrick N, **Sajobi T**, Engbers J, Patten S, Jette N, Wiebe S. Serotonin reuptake inhibitor use and mortality in epilepsy: findings from a contemporary linked electronic health records cohort study. Presented at the Farr Institute Scientific Conference on Health Informatics, Manchester, UK, March 2017.
29. **Sajobi TT**, Brahmbhatt R, Chan EKH, Lix LM, Zumbo B, Sawatzky R. Scoping review of response shift methods: current reporting practices, research gaps, and recommendations for the International Society for Quality of Life. Presented at the Annual Meeting of the International Society for Quality of Life, Copenhagen, Denmark, October 2016.
30. Awosoga O, Liang Z, Santana M, Southern D, James M, Wilton SB, **Sajobi TT**. Trajectories of social support in individuals with coronary artery disease. Presented at the Annual Meeting of the International Society for Quality of Life, Copenhagen, Denmark, October 2016.
31. Liang Z, Awosoga O, Santana M, Southern D, James M, Wilton SB, **Sajobi TT**. Response shift in coronary artery disease: Results from the Alberta Provincial Project for Outcome Assessment in Coronary Heart Disease Study. Presented at the Annual Meeting of the International Society for Quality of Life, Copenhagen, Denmark, October 2016.
32. **Sajobi TT**, Speechley KN, Liang Z, Goodwin S, Ferro M, Wiebe S. Response shift in parent reported health-related quality of life of children with new onset epilepsy. Presented at the Annual Meeting of the International Society for Quality of Life, Copenhagen, Denmark, October 2016.
33. Diaz RL, Bulloch AGM, **Sajobi T**, Thomas BC, Williams JVA, Lavorato DH, Patten SB. The healthy immigrant effect on major depression in Canada varies with age. Presented at the Annual Scientific Symposium of the Canadian Academy of Psychiatric Epidemiology, Toronto, Ontario, September 2016.

34. Wang M, Awosoga O, James M, Southern D, Santana M, Norris C, Lix LM, **Sajobi T**. Longitudinal trajectories of social support in coronary artery disease. Presented at the APPROACH Annual National Meeting, Calgary, Alberta, September 2016.
35. Liang Z, Awosoga O, James M, Southern D, Norris C, Lix LM, **Sajobi TT**. Measurement equivalence of the Seattle Angina Questionnaire in coronary artery disease. Presented at the APPROACH Annual National Meeting, Calgary, September 2016.
36. Abdillahi FA, Quan H, Lu M, **Sajobi TT**. A review of statistical methods for adjusting for unmeasured confounders in observational studies. Presented at the Campus Alberta Student Conference on Health (CASCH), Calgary, September 2016
37. Josephson CB, Lowerison M^{*}, Vallerand I, **Sajobi T**, Patten S, Jette N, Wiebe S. A multi cohort approach to establishing major depressive disorder as both an independent risk factor and modifier of the expression of epilepsy. Presented at the 12th European Congress On Epileptology in Prague, Czech, September 2016.
38. Josephson C, Engbers J, Patten S, Lowerison M, **Sajobi T**, Jette N, Wiebe S. Adverse psychological effects of levetiracetam compared to seven other common anti-epileptic drugs in adults with epilepsy in general practice. Presented at the 12th European Congress On Epileptology in Prague, Czech, September 2016.
39. **Sajobi TT**, Lu M, Jiang S, Quan H. Improving the accuracy of length of stay risk adjustment models using linked data. Presented at the International Population Data Linkage Conference, Swansea, Wales, UK, August 2016.
40. Tyndall AV, Parboosingh JS, Eskes GA, Hill MD, Hogan DB, Longman RS, **Sajobi TT**, Poulin MJ. Development of genetic risk scores to predict cognitive outcomes in healthy older adults: Results from the *Brain in Motion Study*. Presented at the Canadian Student Health Research Forum, Winnipeg, MB; June 7 – 9, 2016
41. **Sajobi TT**, Drogos LL, Lawal O, Liang Z, Tyndall AV, Eskes G, Longman S, Poulin MJ. Statistical methods for detecting practice effects in neuropsychological testing in healthy older adults: results from the *Brain in Motion* study. Presented at the International Conference on Healthy Brain Aging, Banff AB, May 2016.
42. Jiang J, Lu M, Quan H, **Sajobi TT**. Does socio-economic status predict hospital length of stay

in coronary artery disease patients? Presented at the Annual Meeting of the Canadian Association of Health Services and Policy Research, Toronto ON, May 2016

43. **Sajobi TT**, Lu M, Jiang J, Lucyk K, Quan H. A comparison of risk adjustment models for hospital length of Stay. Presented at the Annual Meeting of the Canadian Association of Health Services and Policy Research, Toronto ON, May 2016.
44. Lethebe C, **Sajobi T**, Quan H, Williamson T. Using machine learning methods to create chronic disease case definitions in primary care electronic medical records. Presented at the O'Brien Institute EMR Symposium, Calgary, AB May 2016.
45. Batchelor C, d'Esterre CD, Pordeli P, McDougall C, Wee P, Hur L, Boesen M, Alajlan F, Najm M, Shankar JJ, Khaw A, Rubiera M, Mandzia J, Fainardi E, **Sajobi T**, Lee TY, Aviv RI, Demchuk AM, Goyal M, Menon BK. Multiparameter CT Perfusion Imaging for prediction of intracerebral haemorrhage secondary to acute ischemic stroke. Presented at the 2nd European Stroke Congress, Barcelona, Spain, May 2016.
46. Pordeli P, d'Esterre CD, Batchelor C, Najm M, Fainardi E, Rubiera M, Khaw AV, Mandzia J, Shankar JJ, Demchuk AM, Lee TY, Hill MD, **Sajobi TT**, Menon BK. Novel predictive models for rare outcomes: Potential application in ICH Prediction Post-Stroke. Presented at the 2nd European Stroke Congress, Barcelona, Spain, May 2016.
47. **Sajobi TT**, Singh G, Lowerison M, Engbers JDT, Menon BK, Demchuk AM, Goyal M, Hill MD. Minimal Sufficient Balance Randomization for Endovascular Stroke Trials: Results from the ESCAPE trial. Presented at the Annual Meeting of the Society for Clinical Trials, Montreal, QC, Canada May, 2016.
48. **Sajobi TT**, Wiebe S, Chan C, Speechley KN. Neurologists' changing perception about epilepsy severity in children with new onset epilepsy: Results from the Health Related Quality of Life in Children Study (HERQULES). Presented at the Calgary Epilepsy Program Annual Retreat, Calgary, March 2016.
49. Menon BK, **Sajobi TT**, Zhang Y, Rempel JL, Shuaib A, Thornton J, Hosp B, Williams D, Roy D, Poppe AY, Jovin TG, Sapkota B, Baxter B, Krings T, Silver FL, Frei DF, Fanale C, Tampieri DI, Teitelbaum J, Lum C, Dowlathshahi DD, Eesa M, Lowerison MW*, Kamal N, Demchuk AM, Hill MD, Goyal M; ESCAPE Investigators. Time is brain: Results from the ESCAPE randomized controlled trial. Presented at the International Stroke Conference, Los Angeles CA, February

17 – 19, 2016.

50. Menon BK, **Sajobi TT**, Zhang Y, Rempel JL, Shuaib A, Thornton J, Hosp B, Williams D, Roy D, Poppe AY, Jovin TG, Sapkota B, Baxter B; Krings T, Silver FL, Frei DF, Fanale C, Tampieri DI, Teitelbaum J, Lum C, Dowlathshahi DD, Eesa M, Lowerison MW, Kamal N, Demchuk AM, Hill MD, Goyal M; ESCAPE Investigators. Analysis of workflow and determinants of delays in the ESCAPE randomized controlled trial. Presented at the International Stroke Conference, Los Angeles CA, February 17 – 19, 2016.
51. Batchelor C, McDougall C, Wee P, Boesen M, Qazi E, Najm M, Fainardi E, **Sajobi T**, Lee TY, Aviv RI, Demchuk AM, Goyal M, d'Esterre CD*, Menon BK. Low Cerebral Blood Flow (CBF) At Baseline Best Predicts Parenchymal Hematoma Post Revascularization Therapy. Presented at the Interational Stroke Conference, Los Angeles, CA, February 17 – 19, 2016.
52. Qazi E, Wilson L, McDougall C, Boesen M, Alajlan F, Pordeli P, Batchelor C, **Sajobi TT**, Lee T, Hill MD, Demchuk AM, Goyal M, Menon BK, Forkert ND. Non-contrast computed tomography characteristics can be used to predict optimal individualized patient thresholds to discriminate clot from normal parenchyma. Presented at the International Stroke Conference, Los Angeles, CA, February 17 – 19, 2016.
53. d'Esterre CD, Trivedi A, Zhang Y, Patil S, Pordeli P, Qazi E, S HA, Njam M, Fainardi E, Rubiera M, Khaw AV, Hill MD, Demchuk AM, Goyal M, **Sajobi TT**, Menon BK. Comparing regional multi-phase CT angiography and CT Perfusion in acute ischemic stroke. Presented at the International Stroke Conference, Los Angeles, CA, February 17 – 19, 2016.
54. Josephson C, Lowerison M, Vallerand I, Patten SB, **Sajobi TT**, Wiebe S. The reciprocal hazard between incident major depressive disorder and epilepsy. Presented at the American Epilepsy Association, Philadelphia, USA, December 2015.
55. Lunney M, Sauro K, Atkinson MJ, Josephson CB, Girgis F, Singh S, Jette N, **Sajobi TT**, Harder W, Wiebe S. Identification of themes relevant to patients' evaluation of their satisfaction with epilepsy surgery through focus group discussions. Presented at the Annual Meeting of the American Epilepsy Society, Philadephia, USA, December 2015.
56. Lowerison MW, Engbers J, **Sajobi TT**, Lunney M, Josephson CB, Jette N, Wiebe S. Impact of exposure to neurological specialist care on mortality in epilepsy in a Canadian population. Presented at the Annual Meeting of the American Epilepsy Society, Philadephia, USA,

December 2015.

57. Ewert KA, Engbers J, **Sajobi T**, Josephson C, Jette N, Wiebe S. Predicting mortality in epilepsy in general practice. Presented at the Annual Meeting of the American Epilepsy Society, Philadelphia, December 2015.
58. Lucyk K, Lu M, **Sajobi T**, Quan H. Administrative Health Data in Canada: Lessons from History. Poster presented at the World Health Organization - Family of International Classifications (WHO-FIC) Network Annual Meeting, Manchester, UK. October 17-23, 2015.
59. Lu M, **Sajobi T**, Lucyk K, Quan H. A systematic review of risk adjustment models of hospital length of stay (LOS). Poster presented at the World Health Organization - Family of International Classifications (WHO-FIC) Network Annual Meeting, Manchester, UK. October 17-23, 2015.
60. Lucyk K, Lu M, **Sajobi T**, Quan H. Disease Groupers for Risk Adjustment: What are they, How are they Used, and How do they Compare Internationally?. Poster presented at the World Health Organization - Family of International Classifications (WHO-FIC) Network Annual Meeting, Manchester, UK. October 17-23, 2015.
61. Gill SJ, Friedenreich CM, **Sajobi TT**, Longman SR, Drogos LL, Davenport MH, Tyndall AV, Eskes GA, Hogan DB, Hill MD, Parboosingh SJ, Wilson BJ, Poulin MJ. Association between lifetime physical activity and cognitive functioning in older community dwelling adults. Poster presented at the Society for Neuroscience 45th annual meeting, Chicago IL, October, 2015; Abstract Control Number: 10067.
62. Tyndall AV, Argourd L, **Sajobi TT**, Davenport MH, Forbes SC, Gill SJ, Parboosingh JS, Anderson TJ, Wilson BJ, Smith EE, Hogan DB, Hill MD, Poulin MJ. Cardiometabolic risk factors clustered around metabolic syndrome and apolipoprotein E genotype predict cerebrovascular health in older adults: results from the Brain in Motion study. Presented at the annual meeting Society for Neuroscience Conference, Chicago, IL, October 2015.
63. Gill SJ, Friedenreich CM, Longman, RS, **Sajobi T**, Tyndall AV, Eskes GA, Davenport MH, Drogos L, Poulin M. Association between lifetime physical activity and cognitive functioning in older adults. Presented at the Annual Conference of the Canadian Association on Gerontology (CAG), Calgary AB, October 2015.

64. Lix L, Wu X, Hopman W, Mayo N, **Sajobi TT**, Liu J, Sawatzky R. Testing response shift in the SF-36 Physical Functioning subscale using Item Response Theory (IRT) models: Results from the Canadian Multicentre Osteoporosis Study. Presented at the 22nd Annual Conference of the International Society for Quality of Life, Vancouver BC, October 2015.
65. **Sajobi TT**, Wiebe S, Chan C, Speechley KN. An exploratory study of changing physician perceptions about epilepsy severity in children with new-onset epilepsy. Presented at the 22nd Annual Conference of the International Society for Quality of Life, Vancouver BC, October 2015.
66. Sawatzky R, Chan EKH, Zumbo BD, Bingham C, Gardner W, Jutai J, Kuspinar A, **Sajobi T**, Lix L. Measurement validation in patient-reported outcomes: challenges and opportunities. Presented at the 22nd Annual Conference of the International Society for Quality of Life, Vancouver BC, October 2015.
67. **Sajobi TT**, Pordeli P, Kuokam W, Lix LM. Logistic ridge regression for domain importance assessment in patient-reported outcomes studies. Presented at the 11th International Conference on Health Policy Statistics, Providence RI, USA October 2015.
68. Burt LA, Hanley DA, **Sajobi TT**, Boyd SK. Establishing bone mineral density reference curves for HR-pQCT. Presented at the American Society for Bone and Mineral Research Annual Meeting, Seattle WA, October 2015.
69. Zhang Y, **Sajobi TT**, Lix LM. On covariance mis-specification in repeated measures discriminant analysis. Presented at the Annual Meeting of the Statistical Society of Canada, Halifax NS, June 2015.
70. Tyndall AV, Argourd L, **Sajobi TT**, Davenport MH, Gill SJ, Parboosingh JS, Poulin MJ. Cardiometabolic risk factors clustered around metabolic syndrome and apolipoprotein E genotype predict cerebrovascular health in older adults: results from the Brain in Motion study. Presented at the Ageing and Degeneration Conference, Edinburgh UK, April 2015.
71. **Sajobi TT**, Jette N, Fiest K, Patten S, Engbers J, Lowerison M, Wiebe S. Correlates of patient reported disability related to seizures in persons with epilepsy. Presented at the Calgary Epilepsy Program Retreat, University of Calgary; March 2015.
72. Grimminck R, Oluboka T, Bal M, Rutherford DL, **Sajobi T**, Yeung H. Combination of

Clozapine with long acting injectable antipsychotics in treatment resistant schizophrenia: preliminary evidence from health care utilization indices. Presented at the Alberta Psychiatric Association, Banff, March 2015.

73. Zhang Y, **Sajobi TT**. A comparison of statistical models for ordinal clinical outcomes. Presented at the O'Brien Institute for Public Health Methods Group, University of Calgary; November 2014.
74. Wu X, Sawatzky R, Hopman, W, Mayo E, **Sajobi T**, Liu J, Lix L. Latent variable mixture models for differential item functioning: application to the SF-36 physical functioning and mental health sub-scales. Presented at the 2014 Annual Conference of the International Society for Quality of Life, Berlin, Germany; October 2014.
75. Lix L, Wu X, Hopman W, Mayo E, **Sajobi T**, Liu J, Sawatzky R. Differential item functioning in the physical functioning and mental health sub-scales of the SF-36: A population-based analysis from Canada. Presented at the 2014 Annual Conference of the International Society for Quality of Life, Berlin, Germany October 2014.
76. **Sajobi TT**. Assessing measurement bias in patient-reported outcomes. Presented at the 2014 APPROACH Annual General Meeting, Calgary, September 2014.
77. Gill S, Friedenreich CM, Longman, RS, **Sajobi T**, Poulin M. Association between life time physical activity and cognitive and cerebrovascular functioning in older adults. Presented at the 2014 Campus Alberta Student Conference on Health, Banff AB September 2014
78. Singh G, **Sajobi TT**, Fick GH, Lix LM. Estimating transition probabilities between reversible health states: a comparison of statistical methods. Presented at the 2nd Annual Student Conference of the Statistical Society of Canada, Toronto, ON, May 2014
79. **Sajobi TT**, Lix LM., Singh G, Fick GH. Statistical inference on discriminant function coefficients in the presence of non-normality and covariance heterogeneity. Presented at the 2014 Annual Conference of the Statistical Society of Canada, Toronto, ON, May 2014.
80. **Sajobi TT**, Lu M, Lucyk K, Lorenzetti D, Quan, H. A review of statistical methods for modeling hospital length of stay. Presented at the 2014 International Health Data Linkage Conference, Vancouver, BC, April 2014

81. Lu M, **Sajobi TT**, Lucyk K, Lorenzetti D, Quan H. A systematic review of risk adjustment models of hospital length of stay. Presented at the International Health Data Linkage Conference, Vancouver, BC, April, 2014
82. **Sajobi TT**, Fiest KM, Wiebe S. Identifying reprioritization response shift in patients with epilepsy. Presented at the Annual Retreat of the Calgary Epilepsy Program, Calgary AB, March, 2014.
83. Wiebe S, **Sajobi T**, Jette N, Patten S, Engbers J, Fiest K, Lowerison M. Construct validity of global assessment of severity in epilepsy (GASE) scale in patients with epilepsy. Presented at the Annual Conference of the American Epilepsy Society, Washington D. C, USA. December, 2013
84. **Sajobi T**, Jette N, Patten S, Engbers J, Fiest K, Lowerison M, Wiebe S. Global assessment of epilepsy-related disability scale: a new measure of disability in patients with epilepsy. Presented at the Annual Conference of the American Epilepsy Society, Washington DC, USA, December 2013.
85. **Sajobi TT**, Lix LM, Mayo NE, Liu J. A comparison of imputation methods for response shift detection in a stroke caregiver population. Presented at the 20th Annual Conference of the International Society for Quality of Life Symposium, Miami, USA.
86. **Sajobi TT**, Lix LM, Sawatzky R, Liu J, Mayo NE, Hopman W. Relative weight analysis for response shift detection in longitudinal health-related quality of life. Presented at the 20th Annual Conference of the International Society for Quality of Life, Miami, USA October 2013.
87. Sawatzky R, Chan EKH, **Sajobi TT**, Zumbo BD, Lix LM. An exploratory model for response shift in the SF-36 in an inflammatory bowel disease cohort. Presented at the 20th Annual Conference of the International Society for Quality of Life, Miami, USA October 2013.
88. **Sajobi TT**. On statistical significance of discriminant function coefficients. Presented at the 15th Institute of Mathematical Statistics (IMS) New Researchers Conference, Montreal, QC August 1, 2013
89. Dansu BM, Lix LM, **Sajobi TT**. Testing for response shift in longitudinal health-related quality of life data. Presented at the Annual Canadian Health Research Methods Day, Winnipeg, MB,

June, 2013.

90. Dansu BM, Lix LM, **Sajobi, T. T.** Statistical inference on discriminant function coefficients in doubly multivariate data. Presented at the Annual Meeting of the Statistical Society of Canada, Edmonton, AB, May, 2013
91. Sajobi **TT**, Lix LM, Quaranto B, Finkelstein J, Schwartz CE. Effect of missing data on relative importance measures for response shift detection: An example from an orthopedic population. Presented at the International Society for Quality of Life Research Symposium, Budapest, Hungary, October, 2012
92. Schwartz CE, **Sajobi TT**, Lix LM, Quaranto BR, Finkelstein JA. Changing values, changing outcomes: The influence of reprioritization response shift on outcome assessment after spine surgery. Presented at the Annual Conference of the International Society for Quality of Life Research, Budapest, Hungary, October, 2012
93. Lix LM, **Sajobi TT**, Sawatzky R, Liu J, Mayo, N. E. Detecting reprioritization response shift in a longitudinal study of stroke caregivers. Presented at the Annual Conference of the International Society for Quality of Life, Budapest, Hungary, October, 2012.
94. **Sajobi TT**, Lix LM, Dansu BM. Robust variable importance measures for two independent groups. Presented at the Annual meeting of the Statistical Society of Canada, Guelph, ON, June, 2012.
95. **Sajobi TT**, Dansu BM, Lix LM. Variable Importance Measures for Non-Normal Data: An Application to Patient Reported Outcomes. Presented at the National Student Conference of Canadian Society for Epidemiology and Biostatistics, Saskatoon, SK, May 2012.
96. Dansu BM, Lix LM, **Sajobi TT**. A comparison of variable importance measures for two independent groups. Presented at the National Student Conference of Canadian Society for Epidemiology and Biostatistics, Saskatoon, SK, May 2012.
97. **Sajobi TT**, Lix LM, Huang Y, Sawatzky R, Liu J, Mayo NE. Relative importance measures for detecting reprioritization response shift. Presented at the Annual Conference of the International Society for Quality of Life Research, Denver, CO, October 2011.
98. Lix LM, Huang Y, **Sajobi TT**, Sawatzky R, Liu J, Mayo NE. Detecting different forms of

response shift with structural equation modelling: an application to inflammatory bowel disease. Presented at the Annual Conference of the International Society for Quality of Life Research, Denver, CO, October 2011.

99. **Sajobi TT**, Lix LM, Dansu BM. A comparison of variable importance measures for patient reported outcomes. Presented at the International Conference on Health Policy Statistics, Cleveland, OH, October 2011.
100. Wu X, **Sajobi TT**. SAS/IML: A flexible approach to data analysis. Presented at the SAS Users Group Meeting, Saskatoon, SK, October 2011.
101. **Sajobi TT**, Lix LM, Dansu BM. Robust descriptive discriminant analysis for repeated measures data. Presented at the Annual Meeting of the Statistical Society of Canada, Wolfville, NS, June 2011.
102. **Sajobi TT**. On the analysis of health-related quality of life data. Presented at the Interdisciplinary Graduate Conference, University of Saskatchewan, Saskatoon, SK, October 2010.
103. **Sajobi TT**, Lix LM. Longitudinal health-related quality of life data: new statistical methods to study change in domain importance. Saskatchewan Epidemiology Association Symposium, Saskatoon, SK, October 2010.
104. **Sajobi TT**, Lix LM, Lavery WH, Li, L. Repeated measures discriminant analysis: Effects of non-normality on bias and error in discriminant function coefficients. Joint Statistical Meetings, Vancouver, BC, August, 2010.
105. **Sajobi TT**, Lix LM, Lavery WH, Li, L. Discriminant analysis for repeated measures data: effects of covariance structure misspecification on bias and error in discriminant function coefficients. Presented at the Annual Meeting of the Statistical Society of Canada, Quebec City, QC, May, 2010.
106. Lix LM, **Sajobi TT**. Testing multiple outcomes variables with a priori weights in the presence of non-normality and variance heterogeneity. Presented at the Annual Meeting of the Statistical Society of Canada, Quebec City, QC, May 2010
107. **Sajobi TT**, Lix LM, Clara I, Walker J, Graff L, Rawsthorne P, Ediger J, Miller N, Rogala L,

Carr R, Bernstein C. Evaluating the importance of quality of life domains: A review of literature and numeric example from the Manitoba Inflammatory Bowel Disease (IBD) Cohort Study. Presented at the Eastern Canadian Health Outcomes Conference, Montreal, QC, June 2009.

108. **Sajobi TT**, Lix LM. Testing multiple outcomes in the presence of non-normality and covariance of heterogeneity. Presented at the Annual Meeting of Statistical Society of Canada, Vancouver, BC May, 2009.
109. Hlynka MH, **Sajobi TT**. Markov chains, transition probabilities, and Fibonacci numbers. Presented at the 10th Annual Conference of Queueing Theorists and Practitioners, Ottawa, ON August, 2008.
110. **Sajobi TT**. Markov transition matrices and Fibonacci numbers. Presented at the International Workshop on Matrices and Statistics Windsor, ON June, 2007.