

CURRICULUM VITAE

DR. HUDE QUAN

BIOGRAPHICAL DATA

Present Rank:	Professor
Department:	Community Health Sciences
Faculty:	Medicine
Institution:	University of Calgary
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ACADEMIC RECORD

Postdoctoral of health services and outcomes, 1999 – 2002
Department of Community Health Sciences
University of Calgary, Calgary, Canada
PhD (Epidemiology), 1993-1998
University of Calgary, Calgary, Canada
Diploma of Maternal and Child Health, 1990 -1991
Institute of Child Health, University of London, UK
Population and Economic Training Program, 1988
Asia and Pacific Development Centre of the United Nations, Malaysia
Master of Public Health (Social Medicine and Epidemiology), 1984 -1987
Public Health College, Harbin Medical University, China
Bachelor of Medicine (Public Health), 1979 –1984
Harbin Medical University, China

ACADEMIC APPOINTMENTS

2012-Present	Professor Department of Community Health Sciences University of Calgary
2008-2011	Associate Professor Department of Community Health Sciences University of Calgary
2002-2007	Assistant Professor Department of Community Health Sciences University of Calgary
2002-Present	Research Fellow Institute of Health Economics, Alberta, Canada
2017-Present	Honorary Professor Harbin Medical University, Harbin, China
2002-Present	Adjunct Professor Harbin Medical University, Harbin, China Adjunct professor Medical College Shanghai Jiao Tong University, Shanghai, China
2002-Present	Adjunct scientist, Manitoba Centre for Health Policy, University of Manitoba
2002-2004	Epidemiologist, Quality Improvement and Health Information Calgary Health Region, Alberta, Canada
1998-2002	Health Services Utilization Researcher Alberta Centre for Health Services Utilization Research Alberta Health and Wellness
1998-2002	Research Scientist Research Centre for Alternative Medicine, Calgary

1991-1993	Lecturer Department of Social Medicine/Institute of Medical Demography Public Health College, Harbin Medical University, China
1987-1991	Instructor Department of Social Medicine/Institute of Medical Demography Public Health College, Harbin Medical University, China
1987-1991	Epidemiologist of the National Prevention of Rickets Cooperative Research Program of China with UNICEF

AWARDS & DISTINCTIONS

1. Great Supervisor Award (2016), Faculty of Graduate Studies, University of Calgary, October 2016
2. On the Highly Cited Researchers List in the World by Thompson Reuters, September 2016, representing some of world's most influential scientific minds. About 3000 researchers earned this distinction by writing the greatest number of reports officially designated by Essential Science Indicators as Highly Cited Papers — ranking among the top 1% most cited for their subject field and year of publication, earning them the mark of exceptional impact.
3. Fellow, Canadian Academy of Health Sciences (2016-now)
4. Hadassah Ksienski Lifetime Achievement Award 2016, Immigrant Services Calgary (March, 2016)
5. Research Excellent Award, O'Brien Institute for Public Health, University of Calgary (June 2015)
6. On the Highly Cited Researchers List in the World by Thompson Reuters, Dec 2015, representing some of world's most influential scientific minds. About 3000 researchers earned this distinction by writing the greatest number of reports officially designated by Essential Science Indicators as Highly Cited Papers — ranking among the top 1% most cited for their subject field and year of publication, earning them the mark of exceptional impact.
7. On the Highly Cited Researchers List in the World by Thompson Reuters, June 2014. The List contains about 3,200 scientists, representing the top one per cent of the most numerous citations from 2002 to 2012.
<http://sciencewatch.com/sites/sw/files/sw-article/media/worlds-most-influential-scientific-minds-2014.pdf>
<http://ucalgary.ca/utoday/issue/2014-07-09/three-university-researchers-make-global-most-cited-list>
8. Certificate of Excellence Award, Hypertension Canada, June 2014
9. Health Scholar Award, Alberta Heritage Foundation for Medical Research (Salary and Research Implementation Award), 2010-2017
10. Faculty Citation Classic Award, University of Calgary, Feb 3, 2013
(The University of Calgary, Faculty of Medicine's Citation Classic award recognizes faculty members who have had a single manuscript cited more than 1,000 times. Dr. Hude Quan was the only recipient in 2013 for his paper "Coding algorithms for defining comorbidities in ICD-9-CM and ICD-10 administrative data" Medical Care. 43(11):1130-1139, November 2005).
11. Cochrane Distinguished Achievement Award for Excellence in Research, Faculty of Medicine, University of Calgary, 2007
12. Population Health Investigator Award, Alberta Heritage Foundation for Medical Research (Salary and Research Implementation Award), 2004-2010
13. New Investigator Award, Canadian Institutes of Health Research (Salary Award), 2004-2009
14. Young Innovator Award, University of Calgary and Petro-Canada, 2003
15. Studentship, Calgary WHO Collaborating Centre for Research & Training in Mental Health (\$8,400), 1996
16. Graduate Assistantship, University of Calgary (\$6,000), 1995
17. Studentship, UNICEF (\$30,000), 1990
18. Scholarship, World Health Organisation/United Nations Fund of Population Activity (\$3,500), 1988
19. Honour of Graduation with Medicine, Harbin Medical University, China, 1984

PROFESSIONAL ACTIVITIES

Current Activities

1. Representative of Department head, Department of Community Health Sciences, University of Calgary (Jan 2015-now)
2. Director, The Methods Hub, O'Brien Institute for Public Health (2014-now)
3. Director, World Health Organization Collaborating Centre in Classification, Terminology and Standards, Calgary (2014 Oct -now)

4. Chair, Research and Evaluation Committee (Old name: Outcome Research Task Force), Hypertension Canada (Sept 2014 – now)
5. Co-Chair, the IMECCHI (International Methodology Consortium for Coded Health Information) Research Team (2006 - now)
6. Member, Research Executive Committee, Libin Cardiovascular Institute (2012 Jan - now)
7. Director/supervisor, Mozell Family Analytical Core, the Libin Cardiovascular Institute of Alberta, (2012, Dec -now)
8. Member, Data and Analytics Committee of Integrated Secondary Use Data Solution, Alberta (Feb 2015- now)
9. Member, Public Health Agency of Canada Cardiac Disease Surveillance Advisory Committee (2007- now)
10. Member, International Health Data Linkage Network (2008 - now), Co-Chair, IPDLN Conference in 2018
11. Chair, Western Medical School Dean's Conference on Big Data in 2017 (2016 Sept to 2017 Sept)
12. Member, Patient Safety and Quality Task Group, The World Health Organization Family of International Classifications (2008 - now)
13. Chair, Faculty Recruitment in Big Data Methodology, Libin Cardiovascular Institute of Alberta (20016-2017)
14. Astra Zeneca Chiu Family Chair in Cardiovascular Health Promotion, Libin Cardiovascular Institute of Alberta (2016-2021)
15. Chair, Person to Population Cardiovascular Health Collaborative, Libin Cardiovascular Institute of Alberta (2016-now)
16. Lead, Methods Support & Development platform, Alberta Strategy of Patient Oriented Research, Alberta Innovates-Health Solutions (Sept 2014- now)
17. Member, International Cotutelle PhD student recruitment committee, Cumming School of Medicine (2012-now).

Past Activities

18. Evaluator, Evaluation of Clinical Information System, Alberta Health Services (Oct 2016 – 2017 May)
19. Member, Professorship Recruitment and Review Committee, The Svare Professorship in Health Economics, Cumming School of Medicine, University of Calgary (2017)
20. Member, Faculty Recruitment of Clinical Epidemiology and Health Economics, Cumming School of Medicine, University of Calgary (2016-2017)
21. Member, Heart and Stroke Foundation Chair in Cardiovascular Research, Cumming School of Medicine, University of Calgary (2016-2017)
22. Calgary Site Director, Western Research Training Centre (2011 Sept -2014 April)
23. Member, Graduate Committee of Education, Department of Community Health Sciences, University of Calgary (2013 Sept to Dec 2014)
24. Chair, Hypertension Outcome and Surveillance Team, the Canadian Hypertension Education Program Task Force (2004 – Sept 2014).
25. Research Liaison, Alberta Health Services (Sept 1 2011 - Aug 30 2013)
26. Member, grant review panel, Faculty of Nursing, University of Calgary (2009-2011)
27. Co-Chair, Quality and Management Committee, Cardiovascular Disease and Stroke Strategic Clinical Network, Alberta Health Services (Aug 2012 – May 2014)
28. Co-Chair, Seminar Series Committee, Department of Community Health Sciences/Calgary Institute for Population & Public Health (2010 Sept - 2012 Sept)
29. Lead, University of Calgary Committee of Alberta Health and Wellness New Data Access Project (2011 April -2012 March)
30. Member, Alberta Innovates-Health Solutions Trainee Advisory Committee (2009 Sept - 2012 Aug)
31. Executive Committee Member, Alberta Diabetes Surveillance System (2005 March - 2011 March).
32. Grant Reviewer, MRC grant review, UK (2012 April)
33. Research Subject Matter Expert, pan-Canadian Health System Use (HSU) Architecture and Deployment Model, Canada InfoWay and Canada Institute for Health Information (2011 June-Dec)
34. Associate Editor (Journal), BMC Health Services Research (2009 Jan -2011 Sept)
35. Member, the Health Services Evaluation & Interventions Research Peer Review Committee, Canadian Institutes for Health Research (2009 May - 2011 May)

36. Member, Editorial Board of hypertension surveillance report, Public Health Agency of Canada (2008-2011 March)
37. Evaluator, Quality of care evaluation for Primary Care Network, Calgary Health Region (2007-2010)
38. Member, Alberta Cardiac Assessment for Alberta Health and Wellness (2008-2010)
39. Member, Alberta Heart and Stroke Foundation Task Force for Hypertension Advisory Taskforce Hypertension: Identification and Intervention Strategies (2007-2010)
40. Member, Graduate Committee of Education, Department of Community Health Sciences, University of Calgary (2002-2005, 2007-2009)
41. Chair, Scientific Program, Annual conference of "Diversity and Wellbeing" (2004 – 2008).
42. Advisor, the Calgary Health Administrative Data Research Group (CHART) at the University of Calgary (2006 - 2008)
43. Member, Residence Training Committee, Department of Community Health Sciences, University of Calgary (2005-2006)
44. Co-Chair, Scientific Program, Canadian Association of Health Services and Policy conference, 2009
45. Member, Canadian Community Health Survey questionnaire development and evaluation for Public Health Agency of Canada (2007-2009).
46. Member, Co-jointed Scientific Review Committee, The Centre for Health Advancement, Calgary Health Region (2002 – 2007)
47. Member, Alberta Heritage Foundation for Medical Research, Health Research Fund Review Committee (in 2006)
48. Grant review, Heart and Stroke Foundation of Canada (external reviewer in 2004, 2005, 2006)
49. Grant review, Canadian Institutes of Health Research (external reviewer in 2002, 2005, 2006, 2007)
50. Grant review, Canada Kidney Foundation (external reviewer in 2006, 2007)
51. Grant review, Canada Diabetes Foundation (external reviewer in 2007, 2008)
52. Grant review, Michael Smith Foundation, British Columbia (external reviewer for salary support, 2005)

RESEARCH SUPPORT

1. Canadian Institutes for Health Research Training Modernization Grant, 2017 Sept- 2018 Aug, Moving towards reform in applied health services and policy research, \$100,000, Co-Investigator (Co-PIs Brenda Hemmelgarn, Kathryn Todd)
2. Canadian Institutes for Health Research, 2017, The gender difference in vascular risk factors, early cognitive impairment and progression to dementia, \$69,856, Co-Principal Investigator (Co-PIs Guanmin Chen, Vladimir Hachinski)
3. Canadian Institutes for Health Research-Patient-Oriented Research Collaboration Grants, 2017-2018, Working together to improve cardiovascular health, \$48,774, Co-Investigator (PI Maria J Santana)
4. Calgary Centre for Clinical Research (CCCR), 2017, Developing, refining, and examining the feasibility of culturally-tailored motivational interviewing with South Asian cardiac patients, \$35,000, Co-Investigator (PI Kathryn King-Shier)
5. University of Calgary, Cumming School of Medicine, 2016 September 30-2017, Validity and description of pressure ulcers in coded and hospital chart data: building methods for rapid identification and measurement, \$20,000, Co-Investigator (PI Chester Ho)
6. University of Calgary, Cumming School of Medicine. 2016 July – 2018 July, Developing a vascular risk factor surveillance system: Exploring the "big data," \$26,400, Co-Investigator (PI Guanmin Chen)
7. Canadian Institutes of Health Research Project Scheme Grant 3 year, 2016 July – 2019 June Automated coding error detection tools in administrative health data: development and validation \$485456, Principal Investigator.
8. M.S.I. Foundation Grant. 2016 August - 2018 December, Measuring Healthcare System Performance: Development of Patient-Centered Care Indicators, \$98,000, Co- Investigator (PI Maria Santana)
9. Libin Cardiovascular Institute of Alberta, 2016-2021, Astra Zeneca Chiu Family Chair in Cardiovascular Health Promotion, \$600,000.
10. Canadian Institutes of Health Research, 3 year, 2015 July – 2018 June, Testing the World Health Organization's Beta Version of ICD-11 (DC0910GP) \$413,760, Principal investigator
11. Alberta Health, 2015 Jan to 2016 Aug, Conduct a chart review to facilitate the development of validated case definitions using administrative databases for surveillance, \$250,000, Principal investigator

12. Alberta Innovates-Health Solutions, 2014 Dec – 2017 Nov. SPOR Support Unit Platform/Joint Leads Startup funding. \$3,115,655. Principal investigator.
13. Alberta Innovates-Health Solutions, 2014 Sept – 2017 Nov. SPOR Support Unit Platform/Joint Research Allowance Funding. \$75,000. Principal investigator.
14. Alberta Heritage Foundation for Medical Research, 7 year, 2007-2017, Research implementation, \$30,000, Principal investigator
15. Canadian Institutes of Health Research, 3 year, 2015 July – 2018 June, The transition to kidney allograft failure: characterizing risk and identifying opportunities for intervention (DC0150GP) \$567,204, Co-investigator (PI: Pietro Ravani)
16. Canadian Institutes of Health Research, 5 year, 2015 July – 2022 June, Advancing the Science of Data Quality for Electronic Health Databases: Applications to Chronic Disease Research and Surveillance (Foundation Grant) \$962,920, Independent Researcher (PI: Lisa Lixi)
17. Canadian Institutes of Health Research, 5 year, 2015 July – 2020 June, Misutilization of laboratory tests: pathways to correction (Foundation Grant) \$1,056,419, Independent Researcher, (PI: Christopher Naugler)
18. Canadian Institutes of Health Research, 5 year, 2015 July – 2022 June, Patient-centred care of comorbidity for people with chronic kidney disease (Foundation Grant) \$2,941,006, Independent Researcher (PI: Marcello Tonelli)
19. Canadian Institutes of Health Research, 5 year, 2014 April - 2019 March, A culturally tailored intervention to improve management of type 2 diabetes mellitus in South Asian patients \$846,300, Co- investigator (PI: Nadia Khan)
20. Alberta Innovates Health Solutions, 5 year, 2013 April - 2018 March, W21C: Interdisciplinary research and innovation for health system quality and safety, \$4,679,601, Co-investigator (PI:William Ghali)

Grants Inactive

21. Canadian Institutes of Health Research, 3 year, 2013 April - 2016 March, Do pregnancy characteristics help to predict the future risk of maternal cardiovascular outcomes? A population-based cohort study \$180,021, Co-investigator (PI: Christy Woolcott).
22. Canadian Institutes of Health Research, 3 year, 2013 April – 2016 March, Epidemiology, costs, and consequences of multimorbidity, \$275,700, Co-Investigator (PI: Marcello Tonelli)
23. Alberta Innovates – Health Solutions, 2016 January – June, AIHS Community Engagement and Conference Grant Competition, The Methods Hub Forum: Informatics Day, \$7,100, Principal Investigator.
24. O'Brien Institute for Public Health, 1 year 2015 - 2016 May, Barriers to high quality coding of hospital chart information to administrative data: A qualitative study. \$15,000. Principal investigator
25. O'Brien Institute for Public Health, University of Calgary, Unlimited, 2015 June Research allowance for excellence award. \$2000. Principal investigator
26. Hypertension Canada, 2014 May - 2016 May. Outcome Research Task Force. \$100,000. Principal investigator
27. Canadian Institutes of Health Research, 3 year, 2013 April - 2016 March, An enhanced method to measure chronic disease burdens using health administrative data \$182,005, Co-principal investigator (PI Guanmin Chen)
28. Alberta Innovates Health Solutions, 2016 May- 2016 August, Visiting Scientist to Alberta, \$4,790.00. Principal Investigator, for hosting Dr. Anthony C. Smith, Waikato University, New Zealand.
29. University of Calgary, 1 year, 2014 Sept – 2015 Dec, Ambulatory care sensitive conditions identified in hospital discharge data: Which admissions are deemed avoidable? \$31,000, Principal investigator
30. University of Calgary, 1 year, 2014 Sept – 2015 August, The appropriateness of lumbar spine fusion. \$50,000, Co-investigator (PI: Nathalie Jette)
31. University of Calgary and AIHS, 1 year, 2014, Methods Network for Campus Alberta Public Health. \$4,500, Co-Principal investigator
32. University of Calgary and AIHS, 1 year, 2013, Methods Network for Campus Alberta Public Health. \$4,500, Co-Principal Investigator.
33. University of Calgary, 1 year, 2012, An enhanced method to measure chronic disease burdens using health administrative data, \$13,000, Co-principal investigator with Dr Guanmin Chen
34. University of Calgary, 1 year, 2012, Methods Network for Campus Alberta Public Health. \$4,500, Principal investigator
35. University of Calgary, 1 year, 2012, World Health Organization Collaborating Centre for Research and Development \$12,000, Principal investigator

36. Canadian Institutes of Health Research, 1 year, 2012, Science of Data Quality: Identifying Research Priorities. \$25,000, Co-investigator with Lisa Lix (PI).
37. Canadian Institutes of Health Research, 3 year, 2012 March - 2015 March, Completeness of Physician Billing Claims Administrative Health Databases in Canada. \$250,600, Co-investigator with Lisa Lix (PI).
38. Canadian Institutes of Health Research, 1 year, 2012, A Planning Meeting to Improve Adverse Cardiovascular Outcomes in Ethno-Cultural Minority Adults. \$24,900, Principal investigator.
39. Canadian Institutes of Health Research, 3 year, 2011-2014, Developing a patient and family-centred approach for measuring the quality of trauma care. \$628,692, Co-investigator with Tom Stelfox (PI)
40. Canadian Institutes of Health Research, 1 year, 2011-2012, Ethnocultural differences in adherence to pharmacotherapy among Chinese, South Asian and White adults with Type 2 diabetes. \$50,517, Co-investigator with Nadia Khan (PI)
41. Canadian Institutes of Health Research, 1 year, 2011-2012, Improving administrative data quality at the source: A systematic review of interventions to improve physician documentation. \$95,933, Co-principal investigator with Cindy Beck (PI)
42. Canadian Institutes of Health Research, 1 year, 2010-2011, Advancing International Collaboration and Dissemination of Health Information Knowledge among Researchers and Users through the World Health Organization Family of International Classifications (WHO-FIC) Networking Meeting, \$18,005, Principal investigator.
43. Canadian Institutes of Health Research, 4 year, 2010-2014, Ethnic and sex differences in presentation of acute coronary syndromes and in accessing cardiac care, \$420,235, Co-principal Investigator with Kathryn King (PI).
44. Canadian Institutes of Health Research, 2 year, 2010.11-2011.12, Deriving novel administrative data patient safety indicators, \$94,230, Co-investigator with William Ghali (PI).
45. Canadian Institutes of Health Research, 1 year, 2010-2011, Evaluating the impact of a province wide disease management program on heart failure outcomes in Alberta, \$216,765, Co-investigator with Finlay McAlister (PI).
46. Canadian Institutes of Health Research, 5 year, 2010-2015, Acute coronary syndrome management in South Asian, Chinese and White patients, \$280,380, Co-investigator with Nadia Khan (PI).
47. Heart and Stroke Foundation, 2 year, 2010-2012, Understanding ethnic- and gender-based differences in presenting with acute coronary syndrome and in accessing cardiac Care: A qualitative investigation, \$57,000, Co-investigator with Kathryn King (PI).
48. Canadian Institutes of Health Research, 3 year, 2009-2012, Assessment of hypertension occurrence, management and outcomes in Canada, \$770,217 (operating \$570,217 + priority grant \$ 50,000, additional \$150000 from Linbin Institute, University of Calgary), Principal investigator with Brenda Hemmelgarn and Karen Tu (Co-PIs).
49. Canadian Institutes of Health Research, 2 year, 2009-2011, Effect of physician alternative payment plans on the completeness and validity of administrative health data, \$205,139, Principal investigator with Nathalie Jette (Co-PI).
50. Canadian Institutes of Health Research, 6 year, 2009-2015, Enhancing existing capacity in applied health services and policy research in western Canada (training grant), \$1,788,228, Co-principal investigator with Samuel Sheps (PI).
51. Canadian Institutes of Health Research, 1 year, 2009-2010, Assessment of survey sampling methodologies for studying hard to reach populations: Minority Francophone in Calgary, \$50,000, Principal investigator with Kathryn King (Co-PI)
52. Alberta Heritage Foundation for Medical Research, 5 years, 2009-2014, AHFMR Interdisciplinary Team Grant on understanding and treating diastolic heart failure: novel mechanisms, diagnostics and potential therapeutics, \$5,000,000, Co-investigator with Jason Dyck and Todd Anderson (PIs)
53. Canadian Institutes of Health Research, 3 year, 2009-2012, Access to and Quality of Cardiac Care for First Nations People, \$215,875, Co-investigator with Brenda Hemmelgarn (PI).
54. Canadian Institutes of Health Research, 3 year, 2009-2012, Equity in pharmacare: the effects of ethnicity and policy in British Columbia, \$165,766, Co-investigator with Steven Morgan (PI).
55. China National Natural Science Foundation, 3 year, 2009-2012, Development and evaluation of cardiovascular disease quality of care indicators, RBM ¥250,000 (Chinese currency, 1 Canadian dollar = 5.5 RBM), Co-principal investigator with Meina Liu (PI).
56. Canadian Institutes of Health Research, 1 year, 2008-2009, Enhancing existing capacity in applied health services and policy research in western Canada, \$5,000, Co-principal Investigator with Samuel Sheps (PI).

57. Canadian Institutes of Health Research, 1 year, 2008-2009, Health service utilization: Survey of less English proficient Francophone in Calgary Health Region, \$50,000, Principal investigator with Kathryn King (Co-PI).
58. Canada Foundation for Innovation, Knowledge translation Canada: a national research network, 5 years, 2008-2013, \$2,170,000, Co-investigator with Sharon Straus (PI)
59. Canadian Institutes of Health Research, Knowledge Translation Canada: A CIHR Strategic Training Initiative in Health Research, 5 years, \$ 9,847,291, 2008-2013, Co-investigator with Sharon Straus (PI)
60. Canadian Institutes of Health Research, 2 year, 2008-2010, Classification algorithms to distinguish chronic disease cases from non-cases in administrative data, \$203,800, Co-investigator with Lisa Lix (PI).
61. Heart and Stroke Foundation of Canada, 2 year, 2008-2010, Sex and ethnic differences in stroke prognosis and quality of care, \$200,000, Co-investigator with Nadia Khan (PI). (CIHR \$100,000 declined)
62. Public Health Agency of Canada, 1 year, 2008-2009, Validation of a coding algorithm to define chronic kidney disease using administrative data, \$96,725, Co-investigator with Brenda Hemmelgarn (PI)
63. Public Health Agency of Canada, 1 year, 2008-2009, The development and validation of a case definition for epilepsy, \$114,000, Co-investigator with Nathalie Jette (PI)
64. Canadian Institutes of Health Research, 3 year, 2007-2010, Development, validation and application of ICD-10 patient safety indicators, \$209,600, Principal investigator.
65. Canadian Institutes of Health Research, 3 year, 2007-2010, The development of an appropriateness rating tool to identify Candidates for temporal lobe epilepsy surgery, \$366,000, Co-investigator with Nathalie Jette (PI).
66. Alberta Heritage Foundation for Medical Research, 3 year, 2007-2010, Research implementation, \$35,000, Principal investigator
67. Natural Sciences Foundation of China, 2 year, 2007-2009, Designing an optimal patient flow using Taguchi method, RBM ¥190,000 (Chinese currency 1 Canadian dollar = 6 RBM), Co-investigator with Qiang Su (PI).
68. Heilongjiang Province Science Foundation, 2 year, 2007-2009, Comparison of quality of care between China and Canada among patients with acute myocardial infarction RBM ¥30,000 (Chinese currency 1 Canadian dollar = 6 RBM), Co-principal investigator with Meina Liu (PI).
69. Calgary Health Region, 1 year, 2007-2008, Coding Variation and validity in the Calgary Health Region, \$5000, Co-principal investigator with Cindy Beck (PI).
70. Canadian Institutes of Health Research, 3 year, 2007-2010, Using Prescription drug Information in NDSS: Validation of a classification algorithm for type 1 and type 2 diabetes, \$296,000, co-investigator with Jeffery Johnson (PI).
71. The Sick Kids Foundation, 2 year, 2007-2009, Development and pilot of a spirituality teaching program for depressed teens, \$85,000, Co-investigator with Sabine Moritz.
72. Alberta Provincial Stroke Strategy Steering Committee, 1 year, 2007-2008, S-CHAMP (South Calgary-Cardiovascular Health Assessment and Management Program), \$126,000, Co-investigator with Charlotte Jones (PI).
73. Hotchkiss Brain Institute, University of Calgary (\$10,000) and Calgary Health Region (\$5000), 2 year, 2007-2009, The development of an appropriateness rating tool to identify candidates who should be referred for an epilepsy surgery evaluation – building the foundation for a larger scale study, \$15,000, Co-investigator with Nathalie Jette (PI)
74. Canadian Institutes of Health Research, 2 year, 2006-2008, Gender and ethnic difference in hypertension and diabetes mellitus, \$183,400, Co-investigator with Nadia Khan (PI)
75. Canadian Institutes of Health Research, 2 year, 2006-2008, Validation of a coding algorithm to define hypertension using administrative data, \$125,530, Principal investigator.
76. Canadian Institutes of Health Research, 2 year, 2006-2008, Assessment of a telephone nurse consultation service: Factors associated with non-compliance and impact on use of healthcare services, \$100,000, Co-investigator with Carolyn DeCoster (PI).
77. University of Calgary, 2 year, 2006-2008, Assessment of performance of risk adjustment measures in predicting outcomes among patients with epilepsy, \$14,950, Co-investigator with Nathalie Jette (PI).
78. Calgary Health Region, 1 year, 2006-2007, Factors Associated with Low Cancer Screening Test Utilization in Visible Minorities in Canada, \$5000, Principal investigator
79. Public Health Agency of Canada, 1 year, 2006-2007, Factors associated with blood pressure measurement, \$20000, Principal investigator
80. Lupina Foundation, 5 years, 2005-2010, the Concept Dictionary, \$625,000, Co-investigator with Leslie Roos (PI)

81. Pfizer Canada (\$90000), Sanofi Aventis (\$90000) and Merk (\$90000), 2 year, 2005-2007, Validation of an algorithm to define hypertension using Alberta administrative data, \$270,000, Principal investigator.
82. National Grants Program, Sick Kids Foundation (\$114,250) and the Max Bell Foundation (\$6,750), 2 years, 2005-2007, Orthomolecular therapy as add-on treatment for children with asthma, \$121,000, Co-investigator with Sabine Moritz (PI).
83. Alberta Heritage for Medical Research, 3 years, 2004-2007, \$195,000 for research implementation support, Principal investigator.
84. Canadian Institute of Health Research, 2 years, 2004-2006, Ethnic difference in access to invasive cardiovascular procedures in Canada, \$89,000, Principal investigator
85. Health Research Grant, Alberta Heritage for Medical Research, 2 years, 2004-2006, Spirituality for depression: A randomized controlled trial, \$100,000, Co-investigator with Sabine Moritz (PI).
86. Health Research Grant, Alberta Heritage for Medical Research, 2 years, 2003-2005, Complementary and alternative therapy use in Chinese Canadians, \$90,000, Principal investigator
87. Institute of Health Economics, 1 year, 2004-2005, A data merging solution for missing data in clinical registries: Translation from ICD-9-CM to ICD-10, \$17,362.50, Co-investigator with William A. Ghali (PI).
88. Canadian Institute of Health Research, 1 year, 2004-2005, International collaborative network for development of methodological application for administrative data, \$15000, Principal investigator with William Ghali (Co-PI).
89. Canadian Institute of Health Research, 2 years, 2003-2005, The appropriateness of intravenous immunoglobulin (IVIG), \$246,000, Co-investigator with Thomas Feasby (PI).
90. Canadian Institute of Health Research, 2003-2005, Validation of ICD10 administrative data in recording comorbidity, \$214,845, Principal investigator
91. Lotte and John Hecht Foundation (\$35000) and Norlien Foundation (\$35000), 2 years, 2003-2005, Acupuncture for lower back pain and health resource use., \$70,000, Principal Investigator
92. University of Calgary and Petro-Canada, 1 year, 2003-2004, Health Services Utilization in Canadian Ethnic Populations, \$25,000, Principal investigator
93. Institute of Health Economics and Calgary Health Region, 1 year, 2003-2004, Validity of defining ethnicity using surnames, \$32,935, Principal investigator
94. Institute of Health Economics, 3 years, 2002-2005, Utilization of pharmaceuticals and its outcomes in Alberta's publicly-funded drug benefit programs, \$62,150; Co-principal investigator with Davidas Menon (PI).
95. Max Bell Foundation, 2 years, 2002-2004, Towards integration of complementary and conventional medicine: a survey among health policy makers and a document review. \$87,000, Principal investigator.
96. Calgary Health Region, 1 year, 2002-2003, Reasons for chelation therapy use: a cross-sectional survey in patients undergoing coronary angiography. \$20,072, Principal investigator
97. John and Lotte Hecht Memorial Foundation, Norlien Foundation, Tao Foundation, 2 years, 2001-2003, Towards integration of complementary and conventional medicine: a survey among general and complementary therapy practitioners. John and Lotte Hecht Memorial Foundation, Norlien Foundation, Tao Foundation, \$95,000, Principal investigator
98. Health Canada, 1 year, 2000-2001, Initiation of a prospective cohort database to capture detailed clinical and outcome information on patients attending complementary/alternative medicine clinics. \$5,000, Principal investigator.
99. Medical Services Budget Innovation Fund of Alberta Health and Wellness, 3 years, 1999-2002, Does a spirituality program impact on psychological well-being, quality of life and spirituality in distressed individuals presenting at an alternative therapy clinic or in the primary care setting – a randomized controlled trial. \$50,200, Co-investigator with Sabine Moritz (PI).
100. Research Centre for Alternative Medicine, 1 year, 1998-1999, Characteristics of patients at an alternative therapy medicine clinic, \$10,000, Principal investigator.
101. Foothills Hospital Foundation, 1 year, 1998-1999, Comparative validation of clinical data elements in general medical and surgical discharge records from adult acute-care hospitals in the Calgary region, \$18,000, Co-investigator with William Ghali (PI).
102. Alberta Heritage Foundation for Medical Research, 2 years, 1994-1996, Physical illness and suicide among the elderly, \$18,000, Co-investigator with Julio Arboleda-Florez (PI).
103. UNICEF, 3 years, 1987-1990, Epidemiological investigation of rickets and prevention in China. \$200,000 US, Co-investigator with Xianchi Ma (PI).
104. United Nations Fund of Population Activity, 2 years, 1985-1987, Health status and determinants of minority populations in China. \$100,000 US, Co-investigator with Qing Dong (PI).

OTHER SUPPORTS

1. Alberta Innovates Health Solutions, May 1, 2016-August 31, 2016, Hosting visiting scientist Dr. Anthony Smith, Department of Computer Science, University of Waikato, New Zealand, \$4,790
2. Alberta Heritage Foundation for Medical Research, 1 year, 2009-2010, Hosting visiting scientist Dr. Vijaya Sundararajan, Department of Medicine in the Southern Clinical School, Monash University, Australia. \$4,700
3. Alberta Heritage Foundation for Medical Research, 1 year, 2006-2007, Hosting visiting scientist Dr. Jin Ma, Medical College, Shanghai Jiaotong University, China. \$4,500

PUBLICATIONS

Peer Reviewed Manuscripts (Trainees, Research Associates/Assistants underlined)

Year 2017

1. Tang KL, **Quan H**, Rabi DM. Measuring medication adherence in patients with incident hypertension: a retrospective cohort study. *BMC Health Serv Res*. 2017 Feb 17(1): 135.
2. Yu AY, **Quan H**, McRae A, Wagner GO, Hill MD, Coutts SB. 2017. A cohort study on physician documentation and the accuracy of administrative data coding to improve passive surveillance of transient ischemic attacks. *British Medical Journal Open* (accepted).
3. Khara S, **Quan H**, Sikdar K, Faris P, Jette N. 2017. Hospital safety among neurological patients: a population-based cohort study of adverse events. *Neurology* (in press).
4. Khan NA, McAlister FA, Pilote L, Palepu A, **Quan H**, Hill MD, Fang J, Kapral MK. Temporal trends in stroke incidence in South Asian, Chinese, and white patients: a population based analysis. *PLOS One*. 2017 May 18;12(5):e0175556
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301. **Quan H**. Analysis of Korean population in Hailin, Heilongjiang Province. *Chinese Journal of Minority Population* 1987;4:45-47.

Book, Chapters

1. **Quan H**. *Population education* Harbin:Harbin Ship and Engineering University, 1993.

Reports

1. **Quan H**, Svenson LW, Hemmelgarn BR. Hypertension and diabetes, Alberta diabetes atlas, 2009. Edonoton:Alberta Diabetes Surveillance System (ADSS)
2. Simpson SH, **Quan H**. Stroke and diabetes, Alberta diabetes atlas, 2007. Edonoton:Alberta Diabetes Surveillance System (ADSS)
3. Hassan A, **Quan H**, Newman A, Ghali WA, Hirsch GM. Outcomes after aortic and mitral valve replacement surgery in Canada:1994/95 to 1999/2000, Canadian Cardiovascular Atlas, 2005. Toronto: Canadian Cardiovascular Outcomes Research Team
4. **Quan H**, Wang FL, Schopflocher D. Surname Methodology in Defining Ethnic Populations: Chinese Canadians. *Ethnic Surveillance Series #1*. Edmonton: Alberta Health & Wellness. ISBN:0-7785-3471-5 (online). Approved for release. 2005
5. **Quan H**, Cujec B, Jin Y, Johnson D. The effect of age upon specialty care in patients hospitalized for congestive heart failure in Alberta. Edmonton, AB. Centre for Health Services Utilization Research, 2004.
6. Johnson D, Jin Y, **Quan H**, Cujec B. Beta blockers and angiotensin converting enzyme inhibitors/receptor blockers are associated with decreased mortality in Alberta heart failure patients. Edmonton, AB. Centre for Health Services Utilization Research, 2004.
7. Jin Y, **Quan H**, Cujec B, Johnson D. Home care increases hospitalization for congestive heart failure patients in Alberta. Edmonton, AB. Centre for Health Services Utilization Research, 2003.
8. Cujec B, Jin Y, **Quan H**, Johnson D. Alberta avoids the hospitalization epidemic for congestive heart failure patients. Edmonton, AB. Centre for Health Services Utilization Research, 2003.
9. Jin Y, **Quan H**, Cujec B, Johnson D. Rural and urban outcomes after hospitalization for congestive heart failure in Alberta. . Edmonton, AB. Centre for Health Services Utilization Research, 2003.
10. Jin Y, **Quan H**, Johnson D. An appropriate approach of defining socio-economic status using variables from the DSE population registry database Edmonton, AB, Centre for Health Services Utilization Research, 2002.
11. Maxwell, CJ, **Quan H**, Hogan DB, Zhang JX. Trends in hip fracture hospitalizations and associated health outcomes in Alberta, 1994-1997 Edmonton, AB, Centre for Health Services Utilization Research, 2001.
12. **Quan H**, Lafreniere R, Johnson D. Health service costs while on the waiting list: technical report Edmonton, AB, Centre for Health Services Utilization Research, 2000.
13. Saunders LD, Alibhai A, Hogan DB, Maxwell CJ, **Quan H**, Johnson D. Trends in the utilization of health services by seniors in Alberta Edmonton, AB, Centre for Health Services Utilization Research, 1999.

INVITED ADDRESSES AND ORAL PRESENTATION

1. Harbin Medical University, China, "Big data, Precision Medicine and Precision Public Health" May 3 2017, China (invited speaker).
2. Graduate School of Public Health, Seoul National University, "Health Data Science: Methodological Challenges," April 19, 2016, Seoul, Korea (invited seminar speaker)
3. Korea Medical Association, "Quality of Care: assessment for improvement," April 18, 2016, Seoul, Korea (invited speaker)
4. Health Insurance Review and Assessment: Services of Korea, "Quality of Care: assessment for improvement," April 18, 2016, Seoul, Korea (invited speaker)
5. 8th Annual Asian Pacific Congress of Heart Failure, "Healthcare Report Card: Impacts and Challenges, April 15, 2016, Gyeongju, Korea (Key note speaker)
6. O'Brien Institute for Public Health/Community Health Sciences Seminar (for Research Excellence Award), November 13, 2016, Calgary (invited speaker)
7. SPOR Methods Support, Campus Alberta, May 13 2015 Edmonton

8. Overview measuring patient-centred care at Measuring Patient-centred Care Forum, Nov 17 2014, Calgary
9. CPCSSN primary care EMR data is promising for chronic disease surveillance. Invited commentary. July 22 2014 Annuals of Family Medicine
10. Disease Surveillance using Administrative data, at Workshop Doing Research in Healthcare with Administrative Databases, Politecnico Di Milano, Italy, on June 30 2014 (Key note speaker)
11. Research Tools, Campus Alberta Health Outcomes and Public Health Annual Provincial Meeting, May 5 2014, Calgary.
12. ICD-10 in Canada, Keynote speaker at the American College of Physician Conference, Orlando, on April 9 2014 (invited panelist)
13. Field Testing ICD-11, Feb 13, 2014 for Alberta Clinical Vocabulary Sub Committee, Calgary (Invited speaker)
14. Use of administrative data in the world, Edmonton, Alberta Health, March 10, 2014.
15. Comorbidity Index Score and Predicting Outcomes, International Data Linkage Conference, Vancouver on April 30 2014 (sub-plenary speaker)
16. Clinical data utilization for public health research, Harbin Medical University research leaders, April 30, 2013, Harbin, China (invited speaker)
17. Data Sciences, CANRAD Network, February 13th, 2013 (national meeting), Ottawa, (invited speaker)
18. Data Science, CIHI Data User national conference, Ottawa, Aug 10-12, 2012 (plenary speaker).
19. Elevating the Science of Registries: A Calgary Clinical Research Unit Symposium. Calgary, Sept, 29th, 2012 (plenary speaker)
20. Hypertension natural history and outcome. Canadian Association for Health Services and Policy Research Annual Conference, Montreal, May 30, 2012 (Conference speaker).
21. Heart failure epidemiology, Alberta Heart Failure Training Network, Jan 12, 2012 (invited speaker)
22. Health system use vision - a stakeholder panel perspective on its value proposition, Canada Infoway Partnership Conference, Dalhousie Nov 21, 2011 (plenary speaker)
23. Does ethnicity and sex affect hypertension outcomes? Canadian Association of Health Services and Policy Research Annual Conference, Halifax, May 10, 2011 (Conference speaker)
24. Patient safety indicator, Canadian Association of Health Services and Policy Research Annual Conference, Halifax, May 11, 2011 (plenary speaker)
25. Data quality Improvement, SNOMED-CT & ICD direction and diagnosis coding, University of Calgary, Calgary, Dec 25, 2010
26. Frequent users of ER, Research in Emergency Medicine, University of Calgary, Calgary, Dec 6, 2010
27. Administrative health data and methodological considerations, Health Data Forum, Universities of Regina and Saskatchewan, Quality Council and Saskatchewan Health Research Foundation, Nov 17, 2010
28. Development and validating hypertension using administrative data, Using Data to Forecast the Future, University of Calgary, Banff, March 29-30, 2010
29. Hypertension surveillance development. Public Health Agency of Canada, in Edmonton, Nov, 2009
30. Quality of care assessment. Shanghai Jiatong University, April 2009.
31. Administrative data validation. Public Health Agency of Canada, in Edmonton, Nov, 2008 in Ottawa
32. Validity of ICD-9 and ICD-10 administrative data. CIHI Data User Conference. Vancouver, 2006.
33. Writing a manuscript to international journal. Harbin Medical University, 2006.
34. Risk measurement and risk adjustment using administrative data. Ministry of Health Services of British Columbia, Victoria, 2005.
35. Risk measurement and risk adjustment using administrative data. Alliance for Canadian Health Outcomes Research in Diabetes (ACHORD), Banff, 2005.
36. Measure Healthcare Outcome: Validity of administrative data. Global Perspective of Future China's Health Care Reform and Role of Health Care Management, Shanghai, 2005.
37. Ethnical population health in Canada. Public Health College of Harbin Medical University, Harbin, China, 2004.
38. Validation of administrative data in the past (ICD9CM) and challenges in the future (ICD10), Manitoba Centre for Health Policy, Winnipeg, 2003.
39. Validity of ICD9 and ICD10 administrative data in recording comorbidity information, Calgary Health Region, Foothills Hospital, Calgary, 2003.
40. Measuring health care outcomes: Use of clinical and administrative data. Guest lecture, Harbin Medical University and Beijing University, China, 2002.
41. Administrative data: Are they sufficiently valid? Seminar Series of Department of Community Health Sciences, University of Calgary, Calgary, 2002.

42. Association between physical illness and suicide among the elderly. Seminar Series of Department of Community Health Sciences, University of Calgary, Calgary, 1999.
43. A comparison of two methods for calculating adjusted survival curves from proportional hazards models. Annual Student Conference of Epidemiology, Calgary, 1998.
44. Using deterministic record linkage method to study physical illness and suicide among the elderly. Workshop of Health Research Methods: Practical Application, Calgary, 1998.
45. Heart surgery death rate dropping. Toronto Star, August 11, 1998.
46. Literature review and proposal of physical illness and suicide among the elderly. Invited Speaker, 15th Annual Suicide Research Symposium, Calgary, 1996.

MEDIA INTERVIEW

1. Heart disease and ethnicity, May 2009 by OMNI Television
2. Foreign physicians in Canada, Sept 2009 by OMNI Television
3. Chinese Canadians and heart disease prevention, Feb, 2010 by OMNI Television
4. Hypertension Outcome, May 2013, by Alberta Health Services, Global Mail, CTV, Calgary Herald

Teaching and Supervision

Created Courses: Coordinator and Instructor

1. MDSC 659.07 Administrative Data Analysis Methodology (in 2006, 2007, 2008, 2010, 2012, 2014, 2016 winter)

By the end of the course, students will be able to:

- To understand features of administrative data.
- To appropriately analyze the data for health services and population health research
- To write manuscript suitable for publications at peer reviewed journals.

2. MDSC 755 Global Health Planning (Reading course, 2010 Jan to May)

This course explores the process of developing an academic curriculum to teach a project management approach to advancing health priorities in a developing nation. The focus of the course will be on adapting proven project management principles to the national and local context, applying medical education techniques in curriculum design and developing training materials that are applicable and accessible to students in these countries.

3. MDSC 700 Introduction to Secondary Databases (Co-instructor with Dr Fiona Clement, 2013 Jan to May)

This course will introduce students to three widely-used sources of secondary data available for research in Alberta and Canada (Canadian Community Health Survey, Alberta Health administrative data, Census). Students will learn the basic elements of each database, strengths and weaknesses of the data as well as basic analytic techniques.

4. MDSC 700 Quality of Care (Reading course, co-instructor with Dr Nathalie Jette, 2012 Sept to Dec)

The Institute of Medicine defines quality of care as "the degree to which health services increase the likelihood of desired health outcomes of individuals and populations and are consistent with current professional knowledge". This self-directed study course aims to introduce students to the history, concepts and applications of quality of care research in health care. They will also explore the impact of quality of care initiatives on our health care system. This course will provide them with the foundation to conceptualize and carry out future quality of care research in health care.

Instructor

MDSC 645.18 Foundations in Health Services (I gave one hour lecture in 2010, 2011, 2012, 2013 winter)

MDSC 705.18 Advanced Health Research Methods (I gave two hour lecture in 2010, 2011, 2016, 2017)

MDSC 755 World Health Organization Internship (2011-now)

Administrative Data Analysis for Health Research Methods Workshop, University of Calgary Continuous Medical Education (two 3 hours sessions 2010)

Heart failure epidemiology, Cardiovascular disease research group graduate students, 2 hours, winter 2012

Primary Supervisor

Undergraduate summer students:

1. Richard Liu, Medical and Dental School, the University of Alberta
AHFMR Summer Studentship Award, 2006, 2007
Project: Chinese and White Canadian satisfaction and compliance with physicians
Risk factor prevalence among Canadian ethnic populations
2. Carly Porat, Bachelor of Health Sciences, the University of Calgary
University of Calgary Summer Studentship Award, 2006
Project: Waiting list gaming
3. Christina Maass, Healthcare Management and Health Economics, Niederrhein University of Applied Sciences, Krefeld, Germany, 2007
Project: Comparison ICD-10-CA and ICD-10-GA
4. Elizabeth Fradgley, A student, Bachelor of Health Society, University of Calgary, University of Calgary Award, 2008, 2009 Aug 30 (Thesis Student)
Project: Health literacy on primary care physician
5. Annabelle Neudam, Healthcare Management and Health Economics, Niederrhein University of Applied Sciences, Krefeld, Germany, 2008
Project: Administrative data definitions for chronic conditions
6. Lindsay Sykes, Faculty of Nursing, University of Calgary, 2008, 2009, 2010
AHFMR Summer studentship award
Project: A systematic literature review on response rates across racial and ethnic populations.
Authors' opinions on publication in relation to annual performance assessment.
7. Katie Lin Summer, Queen's University 2010
Project: Health literacy survey among ethnic population
8. Amy Cheng, Faculty of Nursing, University of Mount Royal, 2010
Project: Health literacy survey among ethnic population
9. Muhammad Riaz, Bachelor of Health Sciences, Faculty of Medicine, University of Calgary, 2010
Project: Health literacy survey among ethnic population
10. Emily Schorr, Queen's University, 2010, 2011
Project: Determinates of length of stay
11. Jason Jiang, University of Calgary, 2011, 2012
Project: Spirituality and outcomes: Literature review
12. Sykes LL, Cheng A, Riaz M, Lin K, Schorr E, 2013
Project: Hypertension literacy among ethnic population.
13. Tina Guo, Sophia Sun, Sylvia Hao and Brendan Cord Lethebe, 2015
Project: ICD disease definition dictionary

MSc students:

1. Andrew Fong, 2004-2008
Project: Characteristics of frequent users of emergency department in Calgary Health Region
Now Andrew is senior analyst at Alberta Health Services
2. Robert Myer, 2003-2008
Project: Population-based study of the epidemiology of primary biliary cirrhosis in the Calgary Health Region
Now Robert is associate professor at University of Calgary
AHFMR Clinical Investigator
CIHR New Investigator
3. Valerie Kiss, 2007- 2010
Project: Building knowledge about health services utilization by refugees
Awards: Student Research Award of Prairie Metropolis Centre
West Region Training Centre of Health Services Research award
Now Valerie is a manager at Alberta Health Services
4. David Sabapathy, 2010 Sept-2013-Dec
Project: Increasing immunization for invasive pneumococcal disease in the elderly: identifying missed opportunities during visits to health service providers
Awards: Alberta Innovation-Health Solutions Clinical Fellow Award (\$70000 per year, 2010-2013)
West Region Training Centre of Health Services Research award
5. Jason Jiang, 2012 Sept – 2015 June
Project: Exploring determinants of data quality
Awards: West Region Training Centre of Health Services Research award, \$5000 in 2012

West Region Training Centre of Health Services Research award, \$5,000 in 2013

W21C Studentship, \$30,000 in 2013

Jason is now a Research Assistant in the Department of Community Health Sciences.

6. Peter Rymkiewicz, 2012 Sept – 2015 May
Project: Risk adjustment analysis method in survival analysis
Peter is now Director of Measurement and Evaluation at Mosaic Primary Care Network.
7. Colin Weaver, 2017 March – now (Mentor; Supervision under Dr. Tyler Williamson)
Project: Using primary care electronic medical record data and machine learning to predict acute care use

PhD students

1. Meina Liu, 2004-2008 (Co-supervising, student is at Harbin Medical University, China)
Project: Disease burden in China
Now Meina is a professor at Harbin Medical University, China
2. Emmanuel Ngwakongnwi, 2007 Sept -2011 Dec
Project: Well-being, health care access and services utilization among French speaking minorities: Qualitative interviews and a cross sectional survey of Calgary and Canada
CIHR Frederick Banting and Charles Best Canada Graduate Scholarship (CGS) Doctoral Award (\$30,000/year, \$5000/year research allowance)
West Region Training Centre of Health Services Research award
Now Emmanuel is senior analyst at Alberta Quality Council
3. Xia Li, 2008 Sept -2013 Aug (student is at Harbin Medical University, China)
Project: Hypertension knowledge in rural China
4. Robin Walker, 2010 Sept -2015 Oct
Project: Ambulatory care sensitive conditions identified in hospital discharge data: Which admissions are potentially avoidable?
Awards: University of Calgary Achievers in Medical Science award, \$20,000
Western Region Training Centre of Health Services Research award, \$6,000
laak Walton Killam Memorial Scholarship, \$33,000/year, May 2011 – May 2013, and \$3,000/year for research allowance
Vanier Canada Graduate Scholarship, \$50,000/year, April 2012- May 2015
Alberta Innovates-Health Solutions Graduate Scholarship, \$30,000/year, July 2012-May 2015
Robin is now a Research Associate at the Libin Cardiovascular Institute of Alberta at the University of Calgary.
5. Cathy Eastwood, 2010 Sept – 2015 June (co-supervisor)
Project: Reasons for readmission following hospitalization for heart failure
Awards: Western Region Training Centre of Health Services Research award
Alberta RN Educational Trust award, \$10,000
QWEII award, \$6,000
Deans Entrance Scholarship, \$5,000
Killam Memorial Scholarship, \$33,000/year, May 2012 – May 2014, and \$3,000/year for research allowance
Alberta Innovation-Health Solutions Clinical Fellow Award, \$70000 per year, 2012-2015.
Cathy is now a Senior Research Associate for the WHO Collaborating Centre (ICD-11 Field Trials) at the University of Calgary.
6. Ceara Cunningham, 2011 Sept – January 2016
Project: Shadow billing impacts on data quality.
Awards: Achievers in Medical Science, University of Calgary, \$20,000
Queen Elizabeth II scholarship, University of Calgary \$5000
Western Research Training Centre Scholarship, \$17,800 Sept 2012
Tina Haworth Scholarship (Libin Cardiovascular Institute, U of C), \$11000, Nov 1 2012
Eyes High Leadership Doctoral Scholarship, U of C \$4000, Oct 1 2012
CIHR Frederick Banting and Charles Best Canada Graduate Scholarship (CGS) Doctoral Award (\$30,000/year, \$5000/year research allowance)
Achievers in Medical Science Research Excellence Award, \$3500
Ceara is now a Scientist at Alberta Health Services.
7. Sihai Tao, 2011 Sept -now (student is at Harbin Medical University, China.)
Project: Health information system in China
8. Bin Guo, 2012 Sept - now (student is at Harbin Medical University, China)

- Project: to be determined
9. Yuan Xu, 2012 Sept – 2016 Dec
Project: outcome of liver disease: analysis of electronic health records in China
Awards: Western Region Training Centre of Health Services Research award, \$5,000 in 2013
W21C Studentship, \$30,000 in 2013
Mitacs Globalink Research Award, \$5000 in 2014
 10. Guosong Wu Sept 2014-now (Co-supervisor)
Project: Quality and safety literacy among ethnic population
Awards: Western Region Training Centre of Health Services Research award, \$17,850 in 2014
W21C Health Services Research Scholarship, \$30,000, plus \$2,000 career development in 2016
 11. Kyle Kemp Sept 2015-now
Project: patient centred care
Awards: Alberta Strategy for Patient-Oriented Research (SPOR) Support Unit, \$30,000 in 2016
Canadian Institutes for Health Research Graduate Scholarships Doctoral Award, \$105,000 for 2016-2019
Canadian Institutes for Health Research Commonwealth Fund Dissemination Award, \$2,500 in 2016
 12. Stephanie Garies Sept 2015- now
Project: Surveillance using electronic medical records data
Awards: Alberta Strategy for Patient-Oriented Research (SPOR) Support Unit, \$30,000 in 2016
Achievers in Medical Science Graduate Recruitment, \$25,000 in 2016
W21C Health Services Research Scholarship, \$30,000, plus \$2,000 career development in 2016
Alberta Innovates Health Solutions Graduate Studentship, \$30,000/year 2016-2020
 13. Zia Chowdhury Sept 2014-now (Co-supervisor)
Project: predicting hypertension outcomes
Western Research Training Centre Scholarship, \$17,800 Sept 2014

Post-doctorial/clinical research fellow

1. Nadia Khan, 2005-2007 (co-supervise with Karin Humphries)
CIHR Post-doctorial research fellow
Project: Ethnicity and Health Services Outcomes
Now Nadia is Associate Professor at University of Columbia
CIHR New Investigator
2. Sailesh Mohan, 2007-2009 (co-supervise with Normal Campbell)
CIHR-HOPE Award
Project: Heart disease and hypertension
Now Sailesh is a faculty in India
3. Churlsu Kwon, 2008-2009 (co-supervise with Nathalie Jette)
AHFMR award
Project: Comorbidities and outcomes among epilepsy patients
Now Post-doctorial fellow at Harvard University
4. Aman Nijjar, 2008-2011 Sept (co-supervise with Nadia Khan)
Project: Chronic disease management among ethnic population
Now Aman is assistant professor at University of British Columbia
5. Emad Mohammed, 2017-now
Project: Development of Predictive Analytic Models to Identify Untreated Pressure Ulcer Patients

Supervisory committee member

1. Song Gao, MSc, 2004-2006
Project: Chronic Kidney Disease among First Nations people in Alberta: Prevalence, health services utilization and access to quality care
2. Alie Rezaie, MSc, 2005-2007
Project: Defining inflammatory bowel disease in administrative data
3. Susan Quach, MSc, 2006-2008
Project: A comparison between three risk adjustment methods for predicting 30 day, 6 month and 1 year mortality for intensive care unit patients
4. Manaz Youssefi, MSc, 2006-2009

- Project: Missing data by ethnicity
5. Sharon Zhang, PhD, 2008-2011
 6. Paul Renfrew, MSc, 2007-2011,
Project: Risk adjustment in hepatobiliary and pancreatic surgery: POSSUM and beyond
 7. Natalie Molodecky, MSc, 2009-2011
Project: Validity of Administrative Data for the Diagnosis of Primary Sclerosing Cholangitis: A Population-Based Study
 8. Vinay Deved, MSc, 2009-2012,
Project: Quality of care and outcomes for First Nations People and non-First Nations People with diabetes mellitus
 9. Alka Patel, PhD, 2008-2012
Project: Evaluating Geographic Access to Cardiac Catheterization Facilities to Inform Regionalized Models of Care for Acute Myocardial Infarction
 10. Jane McChesney, MSc, 2010-Oct 2012
Project: Development and Validation of an ICD-10 Case Definition for Pediatric Traumatic Brain Injury using Canadian Administrative Data
 11. Paul Ronksley, PhD, 2009-2013 Feb
Project: Unmet Health Care Needs and Adverse Outcomes for Patients with Chronic Disease
 12. Emmanuel Anokye, MSc, 2010-2014, immigrant health information use
 13. Rachel Jolley, MSc, 2011-2014 ICU sepsis
 14. Simon Berthelot, MSc, 2011-2014, emergency department quality indicator
 15. Bushra Khokhar, MSc, 2012 – 2015
 16. Ruksana Rashid, PhD, 2013-2015
 17. Zaheed Damabi, PhD, 2012-2016, waiting time for hip and knee replacement
 18. Marie-Annick Le Pogam, PhD, 2014 Jan- now (University of Lausanne, Switzerland)
 19. Shaminder Singh, PhD 2015 May-now
 20. Amy Yu, MSc, 2016-now, Stroke Surveillance
 21. Ping Liu, Postdoctoral fellow, 2016 (Primary Supervisor: Pietro Ravani)

Mentoring and advising faculty members

1. Dr. Colin Josephson, Assistant Professor, University of Calgary, 2016-now
2. Dr. Tyler Williamson, Assistant professor, University of Calgary, 2015-now
3. Dr. Amy Metcalfe, Assistant professor, University of Calgary, 2015-now
4. Dr. Gavin McCormack, Associate Professor, University of Calgary, 2014-now
5. Dr. Maria Santana, Assistant Professor, University of Calgary, 2014-now
6. Dr. Tolulope Sajobi, Assistant professor, University of Calgary, 2013 March-now
7. Dr. Tanvir Chowdhury Turin, Assistant professor, University of Calgary, 2013 Feb -2016
8. Dr. Matthew James, Assistant professor, University of Calgary, 2012 March -2015
9. Dr. Alex Bierman, Assistant professor, University of Calgary, 2009-2011
10. Dr. Nathalie Jetté, Associate professor, University of Calgary, 2006-2012 June
11. Dr. Carolyn De Coster, Assistant professor, University of Manitoba 2005-2006

External examiner for thesis defense or PhD candidacy

1. Kim Musselwhite, MSc 2006, Faculty of Nursing, University of Calgary (MSc defense)
2. Jinsheng Zhu, MEd 2006, Department of Economics, University of Calgary (MSc defense)
3. Rylan Robert Cottrell, MSc, 2008, Department of Computer Science, University of Calgary (MSc defense)
4. Lisa Adams, PhD 2012 Feb, Faculty of Nursing, University of Alberta (PhD defense)
5. Meghan Sebastianski, PhD, 2011 Dec, Department of Medicine, University of Alberta (PhD candidacy)
6. Maria Chiu, PhD, 2011 Jan, Department of Medicine, University of Toronto (PhD defense)
7. Olesya Elikan, PhD, 2012 Jan, Department of Geography, University of Calgary (PhD candidacy)
8. Ning Li, PhD, 2012 Nov, Department of Social Medicine, Harbin Medical University, China (PhD thesis defense)
9. Abdulaziz Alhassa, PhD, 2015 Dec, Department of Medicine, University of Alberta (PhD candidacy)

Hosting Visiting Scientists/Fellow/Scholars/Graduate students

1. Jean-Marie Januel, PhD student, University of Lausanne, Switzerland, March - Sept 2006
2. Annabelle Neudam, MSc, Niederrhein University of Applied Sciences, Krefeld, Germany, May - Aug 2008

3. Ann-Kathrin Weschenfelder, MSc, Niederrhein University of Applied Sciences, Krefeld, Germany, Aug 2011
4. Jin Ma, PhD, Professor, Shanghai Jiaotong University, Shanghai, China, June 2009 (Awarded by AHFMR Visiting Scientist)
5. Lisa Lix, PhD, Associate Professor, University of Saskatchewan, April to June, 2010
6. Zhijian Li, PhD, Medical College of Jiantong University, Shanghai, Sept 2009 to Aug 2010
7. Vijaya Sundararajan, MD MPH, Senior Research Fellow, Department of Medicine, Monash University, Nov 2009, March 2010 (Awarded by AHFMR Visiting Scientist)
8. Patrick Taffé, Lecturer, University of Lausanne, Switzerland, July to Oct 2011
9. Gilwon Kang, Associate professor, Chungbuk National University, Korea, Oct 2011 to Sept 2012
10. Guillermo Gosebruch Icaza, Professor, Nicaragua, Sept 20 - Nov 22 2012
11. Jean-Marie Januel, Faculty, University of Lausanne, Switzerland, April - June 30 2013
Project: In-hospital deep vein thrombosis and pulmonary embolism across countries
12. Qin Liu, Associate professor, University of Wuhan, Chin, March 1 2013- Feb 28, 2014
Antihypertensive medication adherence and mortality according to ethnicity: a cohort study.
13. Hepeng Han, Assistant professor, Harbin Medical University, China, Sept 1 2013 to March 2014
Data mining of Chinese Electronic health Records for clinical variable extraction
14. Patrick Taffé, Lecturer, University of Lausanne, Switzerland, June to Sept 2015
15. Anthony (Tony) C. Smith, Senior Lecturer, University of Waikato, June to July 2016