

CURRICULUM VITAE

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Department of Community and Family Medicine
The Dartmouth Institute for Health Policy and Clinical Practice
Dartmouth Medical School
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[Profile](#)

EDUCATION

1983 PhD, Statistics, University of Toronto
1975 DEA, Statistiques (Diplôme d'Études Approfondies avec mention "assez bien"),
 Universités de Paris VI et XI
1974 Maitrise MAF (Mathématiques avec Applications Fondamentales), Université de Grenoble
1973 BSc (Hon), Mathematics (magna cum laudae), University of Ottawa

POST-DOCTORAL TRAINING

1999–2000 Health Policy, Planning and Financing Masters Program, London School of Economics/
 London School of Hygiene and Tropical Medicine. Included courses in health economics,
 health policy, European and comparative health policy, and cost-effectiveness analysis
1985 Diploma in Advanced Epidemiology, New England Epidemiology Institute

ACADEMIC APPOINTMENTS

2002– Senior Scientist, Institute for Clinical Evaluative Sciences, Toronto
2002– Senior Scientist, Evaluative Clinical Sciences (Schulich Heart Program), Sunnybrook
 Research Institute, Toronto
2002– Adjunct Professor, Institute for Health Policy, Management and Evaluation, University of
 Toronto
2002–2007 Vice-President, Research, Institute for Clinical Evaluative Sciences, Toronto
2002– Full Member, School of Graduate Studies, University of Toronto
1999– Professor of Biostatistics, Department of Community and Family Medicine, Dartmouth
 Medical School, Hanover, NH
1999– Professor, The Dartmouth Institute for Health Policy and Clinical Practice, Hanover, NH
1999–2002 Adjunct Professor, Department of Mathematics, Dartmouth College
1990–1999 Associate Professor of Biostatistics, Department of Community and Family Medicine,
 Dartmouth Medical School
1990–1999 Adjunct Associate Professor, Department of Mathematics, Dartmouth College
1984–1990 Assistant Professor of Biostatistics, Dept. of Community and Family Medicine, Dartmouth
 Medical School
1986–1990 Adjunct Assistant Professor, Department of Mathematics, Dartmouth College
1983–1984 Assistant Professor of Statistics, Department of Mathematics, Old Dominion University,
 Norfolk, VA

OTHER PROFESSIONAL POSITIONS

- 2012 (4 mos) Visiting Professor (sabbatical), Institut de Recherches et de documentation en Economie de la Santé (IRDES), Paris
- 1999–2000 Visiting Professor (sabbatical), Department of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine
- 1996–2002 Head, Biostatistics Unit, Biostatistics and Epidemiology Section, Dartmouth Medical School
- 1993 (May) Visiting Professor, Maternal and Child Epidemiology Unit, London School of Hygiene and Tropical Medicine
- 1996–2002 Full Member, Cancer Etiology Program, Norris Cotton Cancer Center, Dartmouth Medical School
- 1993–1997 Full Member, Cancer Prevention Program, Norris Cotton Cancer Center, Dartmouth Medical School
- 1990–1999 Associate, Center for the Evaluative Clinical Sciences, Dartmouth Medical School
- 1989–2002 Director, Biostatistical Consulting Center, Dartmouth Medical School
- 1984–2002 Biostatistician, Norris Cotton Cancer Center, Hanover, NH
- 1979–1981 Consultant, Statistical Consulting Service, University of Toronto
- 1978–1982 Lecturer (part-time), University of Toronto

AWARDS AND HONORS

- 2007 Fellow, American Statistical Association
- 2000 Honorary Master of Arts, Dartmouth College
- 1993 NSF/ASA Travel Grant, ISI Biennial Meeting, Florence, Italy
- 1989 NSF/ASA Travel Grant, ISI Biennial Meeting, Paris, France
- 1979–1981 Natural Sciences and Engineering Research Council of Canada Graduate Scholarship
- 1978 Ontario Graduate Scholarship
- 1977 Connaught Graduate Scholarship
- 1973–1977 French Government Cultural Exchange Scholarship

MAJOR COMMITTEE ASSIGNMENTS AND CONSULTATIONS

International, National and Regional

- 2012- Member, Program-Specific Reports (PSR) subcommittee, Scientific Registry of Transplant Recipients (SRTR) Technical Advisory Committee
- 2012-2015 Chair, Statistical Society of Canada (SSC) Award of Applied and Collaborative Work Committee
- 2012- Member, CIHR Training and Career Development External Advisory Committee
- 2012- Member, Alberta Innovates – Health Solutions (AIHS) Collaborative Research and Innovation Opportunities (CRIO) Project Review Committee
- 2012- Member, Health Care Management Program Development Advisory Committee, Humber College, Toronto
- 2011– Canada’s Representative and Expert advisor to Secretariat, Organization for Economic Co-Operation and Development (OECD), Value for Money in Health Care: Analyzing Variation in Medical Practices Project, OECD, Paris
- 2011 Member, Strengthening Primary Care Organization and Governance Working Group, Ontario Ministry of Health and Long-Term Care
- 2011 Member, Technical Expert Panel, Committee of Presidents of Statistical Societies (COPSS) Committee on Methodology for Hospital-Specific Quality of Care Measurement
- 2011– Member, Excellence in Statistical Reporting Award Committee, American Statistical Association
- 2011– Media expert, Manitoba Centre for Health Policy Evidence Network

- 2010 Member, Statistical Science Delegation to China, a 30-day international exchange coordinated by the American Statistical Association
- 2010–2013 Member, Fellows Nominating Committee, Health Policy and Statistics Section, American Statistical Association
- 2010 Member, Stage 2 Distinguished Editorial Panel, Comparative Effectiveness Research on Upper Endoscopy in GERD, Eradication Methods for MRSA, and Dementia Detection and Management Strategies, National Institutes of Health, Bethesda, MD
- 2010– Member, International Conference on Health Policy Statistics (ICHPS) Scientific Advisory Board
- 2010–2011 Member, Newhints Technical Steering Committee, Obaapavita Vitamin A and Maternal Mortality Clinical Trial, Kintampo, Ghana
- 2010 Expert Member, Sustainability Measurement Forum, Ontario Ministry of Health and Long-Term Care, Toronto, ON
- 2010 Organizer, Special Invited Panel “Putting the Research into Comparative Effectiveness Research,” 2010 International Conference on Health Policy Statistics, Washington, DC
- 2009– Member, Health Research Salary A Peer Review Committee, Canadian Institutes of Health Research
- 2009–2010 Member, Advisory Committee, 2010 International Conference on Health Policy Statistics, Washington, DC
- 2009– External Biostatistical Peer Reviewer, Scientific Review Panel, Canadian Breast Cancer Foundation (Ontario Region)
- 2009– Member, Small Business Innovation Research Review Panel, National Institutes of Health, Bethesda, MD
- 2008–2009 Member, Population Health Investigator Advisory Committee, Alberta Heritage Foundation for Medical Research
- 2008–2009 Member, Pre-Pregnancy Calcium Supplementation Trial, J. Barrett (PI), Sunnybrook Health Sciences Centre, Toronto
- 2007–2010 Member, Data Safety Monitoring Board, Post-Myocardial Infarction Free Rx Economic and Event Evaluation (FREEE) Trial, N. Choudhry (PI), Harvard Medical School
- 2007 Institute of Health Services and Policy Research representative, Canadian Institutes of Health Research Consensus Meeting on Quantitative Methodology, Toronto, ON
- 2007–2008 Member, Advisory Committee, 2008 International Conference on Health Policy Statistics, Philadelphia, PA
- 2007 Member, Special Emphasis Scientific Review Panel: “Networks and Neighborhoods,” National Institutes of Health, Bethesda, MD
- 2007 Member, ALC Indicators Expert Panel, Ontario Joint Policy and Planning Committee
- 2007–2008 Chair, Executive Committee, Health Policy Statistics Section, American Statistical Association
- 2006 Invited Consultant, 2006 Pre-Diabetes Workshop, Public Health Agency of Canada, Ottawa
- 2006–2008 External Reviewer, Research Advisory Council, Newfoundland Centre for Applied Health Research
- 2005 Organizer and Chair, Plenary Session “Assessing Pharmaceutical Safety and Efficacy in the Wake of COX-2 and HRT,” 2005 International Conference on Health Policy Research, Boston, MA
- 2005 Organizer and Discussant, Invited Session “Population Needs-based Funding Models,” 2005 International Conference on Health Policy Research, Boston, MA
- 2004–2007 Member, Health Services Evaluation and Interventions Research Grant Review Committee, Canadian Institutes of Health Research
- 2004–2005 Member, Scientific Planning Committee, 2005 International Conference on Health Policy Research, Boston
- 2004–2005 Member, Ontario Hospital Association Health System Integration Task Force
- 2004 Organizer, Special Contributed Session “Causal Inference in Health Services Research: Taking Account of Hidden Bias,” 2004 Joint Statistical Meetings
- 2004 Organizer, Student Paper Awards in Health Policy Statistics, 2004 Joint Statistical Meetings

- 2004–2005 Program Chair, Health Policy Statistics Section, American Statistical Association
 2003– Member, Data Safety Monitoring Board, Canadian Hemophilia Prophylaxis Follow-up Study, Brian Feldman (PI), Hospital for Sick Children, Toronto
- 2003 Organizer, Invited Session “Statistical Methods in Cost-Effectiveness Analysis,” International Conference on Health Policy Statistics, Chicago
- 2003–2009 Member, Technical Steering Committee, Obaapavita Vitamin A and Maternal Mortality Clinical Trial, Kintampo, Ghana [resulted in publication of “Effect of vitamin A supplementation in women of reproductive age on maternal survival in Ghana (ObaapaVitA): a cluster-randomised, placebo-controlled trial” in Lancet 2010]
- 2002–2003 Co-Chair, Scientific Planning Committee, 2003 International Conference on Health Policy Research, Chicago
- 2002 Organizer, Invited Session “Statistical Methods in Cost-Effectiveness Analysis,” Joint Statistical Meetings, New York City
- 2001 Member, NIH Epidemiology and Disease Control (EDC-3) Scientific Review Committee
- 2001 Organizer, Invited Session “Statistical Methods in Cost-Effectiveness Analysis,” International Society for Clinical Biostatistics Annual Conference, Stockholm
- 2000–2002 Guest Editor, Special Issue on “Statistical Methods In Cost-Effectiveness Analysis,” Statistical Methods in Medical Research
- 2000–2001 Member, Scientific Program Committee, International Society for Clinical Biostatistics (ISCB) Annual Conference, Stockholm
- 1999–2001 Treasurer, Health Policy Statistics Section, American Statistical Association
- 1999–2005 Associate Editor, Statistical Methods in Medical Research
- 1998–2010 External Reviewer, Alberta Heritage Foundation for Medical Research Review Committee
- 1995–1998 Member, U.S. Army Breast Cancer Research Scientific Peer Review Committee
- 1995 Session Organizer, “Longitudinal Methods in Cancer Treatment and Prevention,” International Biometrics Society (ENAR) Spring Meetings, Birmingham, AL
- 1994–1996 Member, National Cancer Institute Special Scientific Peer Review Committee
- 1994 Member, Manitoba Health Research Council Review Committee
- 1993 Consultant, World Health Organization, Geneva
- 1993 Reviewer, Natural Sciences and Engineering Research Council of Canada
- 1992 Member, Safety and Data Monitoring Committee, Vermont-Oxford Surfactant Trial
- 1991, 1995 Member, Doctoral Fellowship Program Review Committee, National Research Council/Howard Hughes Medical Institute
- 1990 External Reviewer, Doctoral Thesis, Dept. of Statistics, Nagarjuna University, India
- 1989–1991 Reviewer, National Science Foundation Statistics and Probability Program
- 1989 Reviewer, British Columbia Health Care Research Foundation
- 1988 Member, Safety and Protocol Review Committee, NIH National Cancer Institute
- 1988–1992 Member, New Researchers' Committee, Institute of Mathematical Statistics

Institutional

- 2007–2010 Member, Education Committee, Institute for Clinical Evaluative Sciences (ICES)
- 2007 Member, Search Committee: CHSS Directors, Sunnybrook Health Sciences Centre
- 2005–2007 Chair, Search Committee: Cancer Health Services Research Scientist, ICES
- 2003–2007 Chair, Program Leaders Committee, ICES
- 2003–2007 Chair, Research Committee, ICES
- 2002 Co-chair, PhD Curriculum Subcommittee on Research Design and Methods, Center for the Evaluative Clinical Sciences, Dartmouth College
- 2000–2002 Member, Venture Fund Advisory Council, Dartmouth College
- 1999 Committee Member, Senior Honors Thesis, Dept. of Geography, Dartmouth College
- 1997 Chair, Search Committee: Associate Professor of Epidemiology, Dartmouth Medical School (DMS)
- 1997 Chair, Search Committee: Assistant Professor of Biostatistics, DMS

- 1996–2000 Leader, Data Analysis in the Experimental and Observational Sciences Working Group, “Math Across the Curriculum,” Dartmouth College
- 1995–1996 Organizer, Biostatistics and Epidemiology Seminar Series, DMS
- 1994–1997 Member, Safety and Data Monitoring Committee, Polyp Prevention Studies, DMS
- 1993 Member, Math and Computer Science Department Review Committee, Dartmouth College
- 1993 Chair, Search Committee: Assistant Professor of Biostatistics, DMS
- 1993–1994 Chair, Search Committee: Research Associate in Biostatistics, DMS
- 1992–1995 DMS Faculty Representative, Dartmouth College Benefits Council
- 1990–1993 Member, Committee for the Protection of Human Subjects (IRB), DMS
- 1990–1991 Member, Search Committee (12 senior positions), Center for the Evaluative Clinical Sciences, DMS
- 1989–2002 Member, Maternity Benefits Committee, DMS
- 1989–1995 Member, Cancer Education and Research Committee, DMS
- 1989–1995 Member, Hitchcock Foundation Scientific Review Committee, DMS
- 1987–1989 Member, Veterans Administration Research and Development Committee
- 1987 Member, Search Committee: Assistant Professor of Biostatistics, DMS
- 1984–1989 Member, Safety and Data Monitoring Committee, Skin Cancer Prevention Study, DMS

JOURNAL REFEREE ACTIVITIES

American Journal of Public Health, American Journal of Epidemiology, Applied Statistics, Biometrics, Biometrika, Canadian Journal of Statistics, Circulation, Computational Statistics and Data Analysis, Journal of Computational and Graphical Statistics, Journal of the American College of Cardiology, JAMA, Journal of Vascular Surgery, Lancet, Medical Care, Medical Decision Making, New England Journal of Medicine, PLoS One, Statistical Methods in Medical Research, Statistics in Medicine

PROFESSIONAL MEMBERSHIPS

AcademyHealth, American Statistical Association, Canadian Association for Health Services and Policy Research, International Biometric Society, International Health Economics Association, International Society for Clinical Biostatistics, Statistical Society of Canada

TEACHING

- 2010 Guest lecturer, Essentials of Global Health Research (INTS 87.1). Epidemiology Section, Dartmouth Medical School, Hanover, NH
- 2009 Guest lecturer, Statistical Methods for Accounting for Confounding or Selection Bias in Observational Studies. Faculty Development Workshop, Institute for Health Policy, Management and Evaluation, University of Toronto
- 2006–2009 Lecturer, Introduction to Health Care Research Methodology (HAD 5306). Dept. of Health Policy, Management and Evaluation, University of Toronto
- 2004 Faculty, Surgical Outcomes Research Course. American College of Surgeons Annual Meeting, Chicago
- 2003– Lecturer, Introduction to the Analysis of Multilevel Data, Advanced Methods in Health Services Research (ECS 146/147). TDI Masters Program, Dartmouth Medical School
- 1999 Lecturer, Advanced Regression Methods (ECS 187). CECS, Dartmouth Medical School
- 1995–1999 Lecturer, Introduction to Linear Models (ECS 240/MATH30). Dept. of Mathematics, Dartmouth College
- 1990–1991 Lecturer, Biostatistics for the Biomedical Sciences (CFM 103). DMS/Dartmouth College
- 1989 Lecturer, Statistical Inference reading course. Dept. of Mathematics, Dartmouth College
- 1986–1990 Lecturer, Probability and Statistical Inference (Math 50). Dept. of Mathematics, Dartmouth College
- 1985–2002 Lecturer and small group leader, Biostatistics and Epidemiology for Medical Students. Dartmouth Medical School

- 1983–1984 Instructor, Applied Regression and Analysis of Variance; Applied Stochastic Processes; Introductory Statistics. Old Dominion University, Norfolk, VA
- 1978–1982 Instructor, Mathematical Statistics for Statistics Majors; Numerical Analysis. University of Toronto

SUPERVISION

- 2012 - Member, PhD Thesis Committee: Aleksandra Stanimirovic, University of Toronto
- 2010–2012 Member, MSc Program Advisory Committee: Atiqa Malik, Institute of Medical Science, University of Toronto
- 2010– Member, PhD Dissertation Committee: Rayzel Shulman, Dept. of Health Policy, Management and Evaluation, University of Toronto
- 2009–2012 Member, M Applied Science (Respiratory Science) Thesis Committee: Nancy Garvey, School of Biomedical Sciences, Charles Sturt University, Australia
- 2009– Member, PhD Dissertation Committee: Heather White, Dept. of Health Policy, Management and Evaluation, University of Toronto
- 2009–2012 Member, PhD Dissertation Committee: Barbara Haas, Institute of Medical Science, University of Toronto
- 2009 External examiner, PhD Dissertation Defence: Jian Kang, Dept. of Community Health Sciences, University of Calgary
- 2007–2009 Member, PhD Dissertation Committee: Chiang-Hua Chang, Dartmouth Institute for Health Policy and Clinical Practice
- 2007–2009 Member, PhD Dissertation Committee: Laura Rosella, Dept. of Public Health Sciences, University of Toronto
- 2004–2005 Member, MSc Thesis Committee: Jeff Kwong, Dept. of Public Health Sciences, University of Toronto
- 2004 External examiner, MSc Thesis Defence: Derek Tai, Institute of Medical Science, University of Toronto
- 2004–2006 Mentor, Ontario Ministry of Health and Long-Term Care Career Scientist Award: Lisa Barbera, Dept. of Radiation Oncology, Sunnybrook Health Sciences Centre
- 2003–2007 Member, PhD Dissertation Committee: Michael Hillmer, Dept. of Health Policy, Management and Evaluation, University of Toronto
- 1998 Director, Senior Honors Thesis (Joint): Christine Cuoco and Melissa Davis, Dept. of Mathematics, Dartmouth College
- 1993 Director, Senior Honors Thesis: Karen Cushing Sepucha, Dept. of Mathematics, Dartmouth College

PUBLICATIONS

Peer-reviewed Journal Articles (reverse chronological order)

1. Vaillancourt S, Schull M, **Stukel TA**, Schultz S, Leaver C. The effect of a brief emergency medicine education course on work intensity in emergency departments by family physicians. Canadian Journal of Emergency Medicine 2012. In press.
2. Rosella LC, Corey P, **Stukel TA**, Mustard C, Hux J, Manuel DG. The influence of measurement error on calibration, discrimination, and overall estimation of a risk prediction model. *Population Health Metrics*. 2012 Nov 1;10(1):20. (Epub ahead of print)
3. Karkouti K, Stukel TA, Beattie WS, Elsaadany S, Li P, Berger R, Wijesundera DN. Relationship of Erythrocyte transfusion with short- and long-term mortality in a population-based surgical cohort. *Anesthesiology*. 2012 Oct 19 (Epub ahead of print) *Accompanied by Editorial*.

4. Rosella LC, Mustard CA, **Stukel TA**, Corey P, Hux J, Roos , Manuel DG. The role of ethnicity in predicting diabetes risk at the population level. Ethnicity and Health. 2012;17(4):419-37. Epub Jan 31, 2012.
5. Alter DA, Wijeyesundera HC, Franklin B, Austin PC, Chong A, Oh PI, Tu JV, **Stukel TA**. Obesity, lifestyle risk-factors, and health service outcomes among healthy middle-aged adults in Canada. BMC Health Services Research. 2012 Aug;12:238. Doi: 10.1186/1472-6963-12-238.
6. Haas B, **Stukel TA**, Gomez D, Zagorski B, De Mestral C, Sharma SV, Rubenfeld GD, Nathens AB. The mortality benefit of direct trauma center transport in a regional trauma system: a population-based analysis. Journal of Trauma and Acute Care Surgery 2012;72:1510-15.
7. Alter DA, Ko DT, Tu JV, **Stukel TA**, Lee DS, Laupacis A, Chong A, Austin PC. The average lifespan of patients discharged from hospital with heart failure. Journal of General Internal Medicine 2012; 27(9):1171-9.
8. Daneman N, **Stukel TA**, Ma X, Vermeulen M, Guttman A. Reduction in Clostridium difficile infection rates after mandatory hospital public reporting: Findings from a longitudinal cohort Study in Canada. PLoS Medicine 2012 Jul;9(7):e1001268.
9. Schull M, Vermeulen M, **Stukel TA**, Guttman A, Leaver C, Rowe B, Sales A. Evaluating the effect of clinical decision units on ED patient flow in seven Canadian emergency departments. Academic Emergency Medicine 2012;19:828-836.
10. Baxter NN, Warren JL, Barrett MJ, **Stukel TA**, Doria-Rose P. Association between colonoscopy and colorectal cancer mortality in a US cohort according to site of cancer and colonoscopist specialty. Journal of Clinical Oncology 2012;30:2664-2669.
11. Lee D, Stitt A, Austin PC, **Stukel TA**, Schull MJ, Chong A, Newton GE, Lee JS, Tu JV. Prediction of heart failure mortality in emergent care: A cohort study. Annals of Internal Medicine 2012; 156(11):767-75.
12. **Stukel TA**, Fisher ES, Alter DA, Guttman A, Ko DT, Fung K, Wodchis WP, Baxter NN, Earle CC, Lee DS. Association of hospital spending intensity with mortality and readmissions in Ontario hospitals. JAMA 2012; 307(10):1037-45. [Accompanied by editorial]
13. Wong K, Campitelli MA, **Stukel TA**, Kwong JC. Estimating influenza vaccine effectiveness in community-dwelling elderly using the instrumental variable analysis method. Archives of Internal Medicine 2012; 172(6):484-91.
14. Schwartz LM, Woloshin S, Andrews A, **Stukel TA**. Influence of medical journal releases on the quality of newspaper coverage. BMJ 2012 Jan 27; 344:d8164 doi: 10.1136/bmj.d8164.
15. Van Spall HGC, Atzema C, Schull MJ, Newton GE, Mak S, Chong A, Tu JV, **Stukel TA**, Lee DS. Prediction of emergent heart failure death by semi-quantitative triage risk stratification. PLoS One 2011;6(8):6:e23065.
16. Urquia ML, **Stukel TA**, Fung K, Glazier RH, Ray JG. Estimating gestational age at birth: a population-based derivation-validation study. Chronic Diseases and Injuries in Canada 2011; 31(3):103-8.
17. Guttman A, Schull MJ, Vermeulen MJ, **Stukel TA**. Association between waiting times and short term mortality and hospital admission after departure from emergency department: population based cohort study from Ontario, Canada. BMJ 2011 Jun 1;342:d2983. doi 10.1136/bmj.d2983.

18. Chang CH, **Stukel TA**, Flood AB, Goodman DC. Primary care physician workforce and Medicare beneficiaries' health outcomes. JAMA 2011;305:2096-104.
19. Gershon A, Croxford R, To T, Stanbrook MB, Upshur R, Sanchez-Romeu P, **Stukel T**. Comparison of inhaled long-acting beta-agonist and anticholinergic effectiveness in older patients with chronic obstructive pulmonary disease: a cohort study. Annals of Internal Medicine 2011;154(9):583-92.
20. Torti DC, Christensen BC, Storm CA, Fortuny J, Perry AE, Zens MS, **Stukel T**, Spencer SK, Nelson HH, Karagas MR. Analgesic and nonsteroidal anti-inflammatory use in relation to nonmelanoma skin cancer: a population-based case-control study. Journal of the American Academy of Dermatology 2011;65:304-12.
21. Alter DA, **Stukel TA**, Chong A, Henry D. Lesson from Canada's universal care: socially disadvantaged patients use more health services, still have poorer health. Health Affairs 2011; 30(2): 274-83.
22. Campitelli MA, Rosella LC, **Stukel TA**, Kwong JC. Influenza vaccination and all-cause mortality in community-dwelling elderly in Ontario, Canada, a cohort study. Vaccine 2011; 29(2):240-6.
23. Rosella LC, Manuel DG, Burchill C, **Stukel TA**; for the PHIAT-DM Team. A population-based risk algorithm for the development of diabetes: development and validation of the Diabetes Population Risk Tool (DPoRT). Journal of Epidemiology and Community Health 2011; 65(7):613-20.
24. Haas B, Gomez D, Zagorski B, **Stukel TA**, Rubenfeld GD, Nathens AB. Survival of the fittest: the hidden cost of undertriage of major trauma. Journal of the American College of Surgeons 2010; 211(6):804-11. [1st place, Residents Trauma Papers Competition, ACS Committee on Trauma]
25. Lee DS, **Stukel TA**, Austin PC, Alter DA, Schull MJ, You JJ, Chong A, Henry D, Tu JV. Improved outcomes with early collaborative care of ambulatory heart failure patients discharged from the emergency department. Circulation 2010; 122(18):1806-14. [Editorial, 122(18):1782-5.]
26. Olsen CM, Zens MS, Green AC, **Stukel TA**, Holman CD, Mack T, Elwood JM, Holly EA, Sacerdote C, Gallagher R, Swerdlow AJ, Armstrong BK, Rosso S, Kirkpatrick C, Zanetti R, Bishop JN, Bataille V, Chang YM, Mackie R, Osterlind A, Berwick M, Karagas MR, Whiteman DC. Biologic markers of sun exposure and melanoma risk in women: pooled case-control analysis. International Journal of Cancer 2011; 129(3):713-23.
27. Hanchate AD, **Stukel TA**, Birkmeyer JD, Ash AS. Surgery volume, quality of care and operative mortality in coronary artery bypass graft surgery: a re-examination using fixed-effects regression. Health Services and Outcomes Research Methodology 2010; 10(1-2):16-31.
28. Johansen H, Brien SE, Finès P, Bernier J, Humphries K, **Stukel TA**, Ghali WA; Canadian Cardiovascular Outcomes Research Team. Thirty-day in-hospital revascularization and mortality rates after acute myocardial infarction in seven Canadian provinces. Canadian Journal of Cardiology 2010; 26(7):e243-8.
29. Manuel DG, Rosella LC, **Stukel TA**. Importance of accurately identifying disease in studies using electronic health records. BMJ 2010; 341:c4226.
30. Guttman A, Shipman SA, Lam K, Goodman DC, **Stukel TA**. Primary care physician supply and children's health care use, access and outcomes: findings from Canada. Pediatrics 2010; 125(6): 1119-26.

31. Rabeneck L, Paszat LF, Saskin R, **Stukel TA**. Association between colonoscopy rates and colorectal cancer mortality. American Journal of Gastroenterology 2010; 105(7):1627-32. [Editorial, 105(7): 1633-5.]
32. Lee DS, Schull MJ, Alter DA, Austin PC, Laupacis A, Chong A, Tu JV, **Stukel TA**. Early deaths in patients with heart failure discharged from the emergency department: a population-based analysis. Circulation: Heart Failure 2010; 3(2):228-35.
33. Wijesundera HC, **Stukel TA**, Chong A, Natarajan MK, Alter DA. Impact of clinical urgency, physician supply and procedural capacity on regional variations in wait times for coronary angiography. BMC Health Services Research 2010; 10:5.
34. You JJ, Alter DA, **Stukel TA**, McDonald SD, Laupacis A, Liu Y, Ray JG. Proliferation of prenatal ultrasonography. CMAJ 2010; 182(2):143-51.
35. **Stukel TA**, Alter DA, Schull MJ, Ko DT, Li P. Association between hospital cardiac management and outcomes for acute myocardial infarction patients. Medical Care 2010; 48(2):157-65. [Selected as a publication of note by the editorial board of Quality Matters, a Commonwealth Fund publication].
36. Lee DS, Ghosh N, Floras JS, Newton GE, Austin PC, Wang X, Liu PP, **Stukel TA**, Tu JV. Association of blood pressure at hospital discharge with mortality in patients diagnosed with heart failure. Circulation: Heart Failure 2009; 2(6):616-23.
37. Zinman L, Thoma J, Kwong JC, Kopp A, **Stukel TA**, Juurlink DN. Safety of influenza vaccination in patients with myasthenia gravis: a population-based study. Muscle and Nerve 2009; 40(6):947-51.
38. Bronskill SE, Rochon PA, Gill SS, Herrmann N, Hillmer MP, Bell CM, Anderson GM, **Stukel TA**. The relationship between variations in antipsychotic prescribing across nursing homes and short-term mortality: quality of care implications. Medical Care 2009; 47(9):1000-8.
39. Applebaum KM, Nelson HH, Zens MS, **Stukel TA**, Spencer SK, Karagas MR. Oral contraceptives: a risk factor for squamous cell carcinoma? Journal of Investigative Dermatology 2009; 129(12):2760-5.
40. Vermeulen MJ, Ray JG, Bell C, Cayen B, **Stukel TA**, Schull MJ. Disequilibrium between admitted and discharged hospitalized patients affects emergency department length of stay. Annals of Emergency Medicine 2009; 54(6):794-804.
41. **Stukel TA**, Alter DA. Analysis methods for observational studies: effects of cardiac rehabilitation on mortality of coronary patients. Journal of the American College of Cardiology 2009; 54(1):34-5. [Invited editorial]
42. Leaver CA, Guttman A, Zwarenstein M, Rowe BH, Anderson G, **Stukel T**, Golden B, Bell R, Morra D, Abrams H, Schull MJ. Development of a minimization instrument for allocation of a hospital-level performance improvement intervention to reduce waiting times in Ontario emergency departments. Implementation Science 2009; 4:32.
43. Koshy SM, Hebert D, Lam K, **Stukel TA**, Guttman A. Renal allograft loss during transition to adult healthcare services among pediatric renal transplant patients. Transplantation 2009; 87(11):1733-6.
44. Robertson DJ, **Stukel TA**, Gottlieb DJ, Sutherland JM, Fisher ES. Survival after hepatic resection of colorectal cancer metastases: a national experience. Cancer 2009; 115(4):752-9.
45. Olsen CM, Zens M, **Stukel TA**, Sacerdote C, Chang Y, Armstrong BK, Bataille V, Berwick M, Elwood J, Holly EA, Kirkpatrick C, Mack T, Bishop JN, Osterlind A, Swerdlow A, Zanetti R, Green

- A, Karagas M, Whiteman D. Nevus density and melanoma risk in women: a pooled analysis to test the divergent pathway hypothesis. International Journal of Cancer 2009; 124(4):937-44.
46. Lee DS, Austin PC, **Stukel TA**, Alter DA, Chong A, Parker JD, Tu JV. "Dose-dependent" impact of recurrent cardiac events on mortality in patients with heart failure. American Journal of Medicine 2009; 122(2):162-9.e1.
 47. Schull MJ, **Stukel TA**, Zwarenstein M, Guttman A, Alter DA, Manuel DG. ICES report: Five policy recommendations from Toronto's SARS outbreak to improve safety and efficacy of restrictions on hospital admissions to manage infectious disease outbreaks. Healthcare Quarterly 2009; 12(1):30-2.
 48. Rizek R, Paszat LF, **Stukel TA**, Saskin R, Li C, Rabeneck L. Rates of complete colonic evaluation after incomplete colonoscopy and their associated factors: a population-based study. Medical Care 2009; 47(1):48-52.
 49. Rabeneck L, Paszat LF, Hilsden RJ, Saskin R, Leddin D, Grunfeld E, Wai E, Goldwasser M, Sutradhar R, **Stukel TA**. Bleeding and perforation after outpatient colonoscopy and their risk factors in usual clinical practice. Gastroenterology 2008; 135(6):1899-1906.e1. [Editorial, 135(6):1845-7.]
 50. Lu-Yao G, Albertsen PC, Stanford JL, **Stukel TA**, Walker-Corkery E, Barry MJ. Screening, treatment, and prostate cancer mortality in the Seattle area and Connecticut: fifteen-year follow-up. Journal of General Internal Medicine 2008; 23(11):1809-14.
 51. Kwong JC, **Stukel TA**, Lim J, McGeer AJ, Upshur REG, Johansen H, Sambell C, Thompson WW, Thiruchelvam D, Marra F, Svenson LW, Manuel DG. The effect of universal influenza immunization on mortality and health care use. PLoS Medicine 2008; 5(10):e211.
 52. Elit LM, Bondy SJ, Paszat LP, Holowaty EJ, Thomas GM, **Stukel TA**, Levine MN. Surgical outcomes in women with ovarian cancer. Canadian Journal of Surgery 2008; 51(5):346-54.
 53. **Stukel TA**, Schull MJ, Guttman A, Alter DA, Li P, Vermeulen MJ, Manuel DG, Zwarenstein M. Health impact of hospital restrictions on seriously ill hospitalized patients: lessons from the Toronto SARS outbreak. Medical Care 2008; 46(9):991-7.
 54. Rabeneck L, Lewis JD, Paszat LF, Saskin R, **Stukel TA**. Risk of proximal and distal colorectal cancer following flexible sigmoidoscopy: a population-based cohort study. American Journal of Gastroenterology 2008; 103(8):2075-82.
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Books and Monographs

1. The COPSS-CMS White Paper Committee (Ash AS, Fienberg SE, Louis TA, Normand S-LT, **Stukel TA**, Utts J). Statistical Issues in Assessing Hospital Performance. Paper commissioned by the Committee of Presidents of Statistical Societies (COPSS), 2012.
<http://www.cms.gov/HospitalQualityInits/Downloads/HospitalStatisticalIssues-in-AssessingHospitalPerformance.pdf>

2. Golden B, Kasperski MJ and the **Working Group to the Primary Healthcare Planning Group**. Strengthening Primary Care Organization and Governance. Ontario Ministry of Health and Long Term Care. August 2011.
3. **Stukel TA**, Croxford R, Corallo A, Goodman DC. Medical Practice Variations in OECD Countries. Report commissioned by OECD, 2011.
4. Goodman DC, Fisher ES and the **Dartmouth Atlas Working Group**. Quality of End-of-Life Cancer Care for Medicare Beneficiaries: Regional and Hospital-Specific Analyses. Lebanon, NH: Dartmouth Institute for Health Policy and Clinical Practice, 2010.
5. Urbach DR, Croxford R, MacCallum NL, **Stukel TA**. Analysis of Current Research Related to the Impact of Low-volume Procedures/Surgery and Care on Outcomes of Care. Review commissioned by the Canadian Institute for Health Information, 2004.
6. Woodward G, **Stukel T**, Schull M, Gunraj N, Laupacis A. Utilization of Ontario's Health System During the 2003 SARS Outbreak. Toronto: Institute for Clinical Evaluative Sciences, May 2004.
7. Birkmeyer JD, Finlayson EVA, Goodney PP, Siewers AS, **Stukel TA**, Lucas FL, Wennberg DE. Policy Implications of Public Reporting of Hospital Volume with Selected Procedures and Recommendations. White paper for the Center for Medicare and Medicaid Services, 2002.
8. **Stukel TA** (editor). "Statistical Methods in Cost-Effectiveness Analysis." Statistical Methods in Medical Research. London: Arnold, 2002; 11:453-551.
9. Wennberg JE and the **Dartmouth Atlas of Health Care Working Group**. The Dartmouth Atlas of Health Care 1999. Hanover, NH: American Hospital Press International, 1999.
10. Wennberg JE and the **Dartmouth Atlas of Health Care Working Group**. The Dartmouth Atlas of Health Care 1998. Hanover, NH: American Hospital Press International, 1998.
11. Wennberg JE and the **Dartmouth Atlas of Health Care Working Group**. The Dartmouth Atlas of Health Care. Hanover, NH: American Hospital Press International, 1996.

Abstracts and Reviews

1. Rabeneck L, Paszat L, Hilsden RJ, Saskin R, Leddin D, Grunfeld E, Wai ES, Goldwasser MA, **Stukel TA**. Factors associated with risk of serious complications of colonoscopy: a population-based study. Gastroenterology 2008; 134(4 suppl 1):A-88.
2. **Stukel TA**, Fisher ES, Wennberg DE, Alter DA, Gottlieb DJ, Vermeulen MJ. Observational study outcomes are highly sensitive to choice of statistical analysis. [Research Highlights] Nature Clinical Practice: Cardiovascular Medicine 2007; 4(5):238-9.
3. **Stukel TA**, Lucas FL, Wennberg DE. Long-term outcomes of regional variations in intensity of invasive vs. medical management of Medicare patients with acute myocardial infarction. Compendium Series: Cardiovascular 2005; 3:64-6.
4. Thompson LA, Goodman DC, **Stukel TA**, Chang CH. Detecting unexplained influences of low birth weight through regional profiling. Pediatric Research 2004; 55(4 suppl 2):520A-521A.
5. Robertson DJ, **Stukel TA**, Gottlieb D, Fisher ES. Variations in area-level utilization of CEA and colonoscopy after colon cancer resection and the effect on outcome. Gastroenterology 2003; 124 (4 suppl 1):A621

6. Lu-Yao G, Albertsen PC, Stanford JL, **Stukel TA**, Walker-Corkery ES, Barry MJ. A natural experiment examining the impact of aggressive screening and treatment on prostate cancer mortality: Seattle versus Connecticut. Journal of Investigative Medicine 2002; 50:161A.
7. Goodney P, Siewers A, **Stukel TA**, Birkmeyer JD. Is cancer surgery getting safer? National trends in operative mortality, 1994-1999. Presented at the 63rd Annual Meeting of the Society of University Surgeons, Honolulu, HI, February 14-16, 2002.
8. **Stukel TA**. Review of "Analysis of Health Surveys" by EL Korn and BI Graubard. Short Book Reviews 2000; 20(2):24.
9. Sargent J, **Stukel TA**, Kresel J, Klein RZ. Literature abstract. Pediatric Nephrology 1994; 8(4):476.
10. Sargent J, Dalton M, **Stukel T**, Klein R. An easily applied barrier method reduces lead contamination of capillary blood specimens. American Journal of Diseases of Children 1993; 147(4):435.
11. Sargent JD, **Stukel T**, Stern P, Klein RZ. Urine calcium excretion in normal term infants: norms for calcium to creatinine ratio. Pediatric Research 1991; 29:350A.
12. Gordan V, **Stukel T**, Pitman R, Dain B. Relationship between acute organ failure and mortality in medical intensive care unit. Chest 1990; 98(suppl):84S.
13. Ball ED, Mills LE, Cornwell III GG, Davis BH, Coughlin CT, Howell AL, **Stukel TA**, Dain BJ, McMillan R, Spruce W, Miller WE, Thompson L. Autologous bone marrow transplantation (ABMT) for acute myeloid leukemia (AML) using monoclonal antibody-purged bone marrow. Blood 1989; 74 (suppl 1):27A.
14. Mahler DA, Brew E, **Stukel TA**. Respiratory and locomotor responses to rowing. Medicine and Science in Sports and Exercise 1989; 21(suppl):S13.
15. Shuhart CR, Mahler DA, **Stukel TA**. Ventilatory responses and entrainment in trained and untrained female rowers. Medicine and Science in Sports and Exercise 1987; 19(suppl 2):532.
16. Nierenberg DW, **Stukel TA**, Greenberg ER, Baron JA. Determinants of plasma retinol and beta-carotene levels. Clinical Research 1987; 35:794A.
17. Nierenberg DW, **Stukel TA**. Diurnal and seasonal variation in plasma levels of retinol, tocopherol and beta-carotene. Clinical Research 1986; 34:392A.
18. Percy ME, Thompson MW, **Stukel T**, Andrews DF. Application of logistic discrimination to Duchenne muscular dystrophy carrier detection. Canadian Journal of Neurological Sciences 1982; 9(3):364.

Letters to the Editor

1. **Stukel TA**, Roos N. Providing the right amount of health care; more is not always better - Commentary. iPolitics Insight 2012 June 5.
2. Chiang C-H, **Stukel TA**, Goodman DC. Primary care physician workforce and outcomes – Reply. JAMA 2011; 306:1202.
3. Lee DS, Schull MJ, Alter DA, Austin PC, Chong A, Tu JV, **Stukel TA**, Laupacis A. Response to letter regarding article, "Early deaths in heart failure patients discharged from the emergency department: a population-based analysis." Circulation: Heart Failure 2010;3:e23.

4. Karagas MR, **Stukel TA**, Umland V, Tsoukas MM, Mott LA, Sorensen HT, Jensen AO, Nelson HH, Spencer SK, Perry AE, Stern RS. Reported use of photosensitizing medications and basal cell and squamous cell carcinoma of the skin: results of a population-based case-control study. Journal of Investigative Dermatology 2007; 127(12):2901-3.
5. **Stukel TA**, Fisher ES, Wennberg DE. Using observational data to estimate treatment effects. JAMA 2007; 297(19):2078-9.
6. Carney PA, Pias CF, Nierenberg DW, Brooks WB, **Stukel TA**, Keller A. Educational epidemiology. [Response to letters] JAMA 2004; 292(24):2970-1.
7. **Stukel TA**. Deaths on the waiting list for cardiac surgery: revised analysis. CMAJ 2004 June [web only].
8. Sargent JD, Dalton M, **Stukel TA**, Roda S, Klein R. Easily applied barrier method reduces lead contamination of capillary blood specimens. Clinical Chemistry 1994; 40(2):341-2.
9. Greenberg ER, **Stukel TA**, Baron JA, Freeman DH. Statistical methods in research. Lancet 1993; 342(8878):1055.
10. Altman N, Angers JF, Banks D, Duffy D, Hardwick J, Leger C, Martin M, Nolan D, Owen A, Politis D, Roeder K, Sriram TN, **Stukel T**, Ying Z. Response to "Readers' comments to the New Researchers' Committee report." Statistical Science 1992; 7(2):256-66.
11. Greenberg ER, Baron JA, **Stukel TA**. Beta carotene to prevent skin cancer. [Response to letters] New England Journal of Medicine 1991; 324(13):923-5.
12. **Stukel TA**. Hypothesis testing of time-dependent recurrent events. [Response to letter] Statistics in Medicine 1989; 8(4):517-9.
13. Greenberg ER, Chute CG, **Stukel TA**, Baron JA, Freeman D, Yates J, Korson R. Influence of nonmedical factors in the choice of lung-cancer treatment. [Response to letter] New England Journal of Medicine 1988; 319(10):652-3.

Conference Proceedings

1. **Stukel TA**, Glynn RJ, Fisher ES, Sharp SM, Wennberg JE. Longitudinal analysis of hospital utilization using Medicare claims data. Bulletin of the International Statistical Institute 1993; 2:441.
2. **Stukel TA**. The similarity of the Weibull, the multi-hit and the logistic dose-response models for low-dose extrapolation. Bulletin of the International Statistical Institute 1989; 2:363-4.

INVITED PRESENTATIONS

1. Patient Care Networks: Improved quality and accountability – The Health Care Neighbourhood. School of Public Policy and Governance, University of Toronto, Toronto, ON, 10/19/12.
2. Physician network primary care intensity and post-discharge outcomes of chronic disease patients. International Biometric Conference 2012, Kobe, Japan, 8/30/12.
3. Methods for Analysing Large Population Datasets to Adjust for Bias and Confounding. Ontario Brain Institute Workshop on Use and Federation of Large Data Sets. Toronto, ON, 8/22/12.

4. Multispecialty Physician Networks: Improved Quality and Accountability - The Medical Neighborhood. IRDES, Paris, 5/22/12.
5. Medical Practice Variations in Ontario, Canada. Organisation for Economic Co-operation and Development (OECD) Expert meeting on medical practice variations. Paris, France, 4/2/12.
6. Medical Practice Variations in OECD countries: Overview of Recent Studies. Organization for Economic Co-operation and Development (OECD) Expert meeting on medical practice variations. Paris, France, 4/2/12.
7. Multispecialty Physician Networks: Improved Quality and Accountability – The Medical Neighborhood. Canadian Institute for Health Information (CIHI) Policy Rounds, Toronto, ON, 11/17/11.
8. Multispecialty Physician Networks: Improved Quality and Accountability – The Medical Neighborhood. Elisabeth Bruyère Research Institute, Ottawa, ON, 10/27/11.
9. Multispecialty Physician Networks: Improved Quality and Accountability – The Medical Neighborhood. Institute for Clinical Evaluative Sciences (ICES) @ Queen’s Science Day, Kingston, ON, 10/25/11.
10. Instrumental Variable Methods for Accounting for Selection and Survival Bias in Observational Studies. 9th International Conference on Health Policy Statistics, Cleveland, Ohio, USA, 10/5/2011.
11. Medical Makeover: Redesigning Physician Services for Tomorrow’s Health System, Expert Panel Member. 2011 Physician Human Resource Summit, Vancouver, BC, 9/27-28/2011.
12. Recent progress in research and analysis of international variations studies. Discussant. Wennberg International Collaborative 2011 Conference, London School of Economics, UK, 9/16/2011.
13. Physician network primary care intensity and efficiency of chronic disease care. The Dartmouth Institute for Health Policy and Clinical Practice Biannual Retreat, Holderness, NH, 9/12/2011.
14. Multispecialty Physician Networks: Improved Quality and Accountability – The “Medical Neighborhood”. PHC Performance Measurement and Reporting Team Grant Planning Meeting, Toronto Sheraton Airport Hotel, Toronto, ON, 9/9/2011.
15. Toronto Central LHIN Acute Care Bed Use. Implementation Branch, Health System Accountability and Performance Division, Ontario Ministry of Health and Long-Term Care, Toronto, ON, 7/14/2011.
16. Is Higher Hospital System Spending Intensity Associated with Better Acute Care Outcomes in Canada? International Health Economics Association 8th World Congress, Toronto, ON, 7/12/2011.
17. Psychiatrist Supply Across Ontario: Impact on Practice Patterns. Center for Health Policy Research, The Dartmouth Institute for Health Policy & Clinical Practice Biannual Retreat, Wentworth, NH, 5/19/2011.
18. Multispecialty Physician Networks: Improved Quality and Accountability – The “Medical Neighborhood.” 2011 Dalhousie Symposium on Health Services Research, Halifax, NS, 4/28/2011.
19. Causes and Consequences of Variations in Canada and the U.S.: In Healthcare, Is More Always Better? 2011 CEO Forum on Leadership Accountability in Canadian Healthcare, Canadian Health Services Research Foundation, Montreal, QC, 2/16/2011.

20. Multispecialty Physician Networks: Improved Quality and Accountability – The “Medical Neighborhood.” ICES/CEU Conjoint Rounds, Toronto, ON, 1/17/2011.
21. In Health Care, Is More Always Better? Toronto Health Economics and Technology Assessment (THETA) Collaborative, Toronto, ON, 12/17/2010.
22. Is Higher Canadian Hospital System Spending Intensity Associated with Better Acute Care Outcomes? First Global Symposium on Health Systems Research, Montreux, Switzerland, 11/16/2010.
23. Is Higher Canadian Hospital System Spending Intensity Associated with Better Acute Care Outcomes? Council of Academic Hospitals of Ontario (CAHO), Toronto, ON, 11/12/2010.
24. Causal Inference in Health Policy Research Studies. Wennberg International Collaborative, London School of Economics and Political Science, London, UK, 9/15/2010.
25. Is Higher Canadian Hospital System Spending Intensity Associated with Better Acute Care Outcomes? Sixth IMA Conference on Quantitative Modelling in the Management of Health Care, Institute of Mathematics and Its Applications, London, UK, 3/30/2010.
26. Is Higher Hospital System Spending Intensity Associated with Better Acute Care Outcomes? Cardiology Rounds, Sunnybrook Health Sciences Centre, Toronto, ON, 2/23/2010.
27. In Health Care, Is More Always Better in Ontario? Health Care 2010 Data Symposium, Toronto, ON, 2/1/2010.
28. Is Higher Hospital System Spending Intensity Associated with Better Acute Care Outcomes? Conjoint Rounds, Institute for Clinical Evaluative Sciences, Toronto, ON, 1/26/2010.
29. Improving Value in our Health Care System: Creating a Sustainable Architecture for Regions and Primary Health Care. Ministry Management Committee, Ontario Ministry of Health and Long-Term Care, Toronto, ON, 12/15/2009.
30. Is Higher Hospital System Spending Intensity Associated with Better Acute Care Outcomes? UBC Centre for Health Services and Policy Research, Vancouver, BC, 11/13/2009.
31. Is Higher Hospital System Spending Intensity Associated with Better Acute Care Outcomes in Canada? Center for Health Policy Research, The Dartmouth Institute for Health Policy and Clinical Practice, Hanover, NH, 10/16/2009.
32. Association between Hospital Cardiac Management and Outcomes for AMI Patients. Conjoint Rounds, Institute for Clinical Evaluative Sciences, Toronto, ON, 9/29/2009.
33. Ontario Hospital System Variations in Healthcare Spending: Is Higher Spending Associated with Better Acute Care Outcomes? Dartmouth Institute for Health Policy and Clinical Practice Annual Meeting, Holderness, NH, 9/15/2009.
34. Can Standard Statistical Methods Remove Selection Bias in Observational Studies? SickKids Research Institute, Toronto, ON, 5/14/2009.
35. Can Standard Statistical Methods Remove Selection Bias in Observational Studies? Dept. of Statistics Seminar Series, Ohio State University, Columbus, OH, 3/5/2009.

36. Association between Hospital Cardiac Management and Outcomes for Acute Myocardial Infarction Patients. Sunnybrook Health Sciences Centre Cardiology Research Rounds, Toronto, ON, 2/10/2009.
37. Statistical Methods for Estimating the Effect of Exposures on Outcomes Using Observational Data: Instrumental Variable Methods. Health Care 2009 Data Symposium, Toronto, ON, 2/2/2009.
38. Analysis of Observational Studies in the Presence of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. Queensland Institute of Medical Research, Queensland, Australia, 11/24/2008.
39. In Healthcare, Is More Always Better? Canadian Health Services Research Foundation “Researcher on Call” national teleconference, 10/15/2008.
40. Can Standard Statistical Methods Remove Selection Bias in Observational Studies? Dept. of Epidemiology and Biostatistics, Memorial Sloan-Kettering Cancer Center, New York, NY, 9/24/2008.
41. The Ontario Cardiac Care Network: Impact of Clinical Urgency and Cardiac Supply on Regional Variations in Wait Times for Coronary Angiography. Dartmouth Institute for Health Policy and Clinical Practice Annual Meeting, Holderness, NH, 9/16/2008.
42. Analysis of Observational Studies in the Presence of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival using Propensity Score and Instrumental Variable Methods. 29th Annual Conference of the International Society for Clinical Biostatistics, Copenhagen, Denmark, 8/18/2008.
43. Predicting New Cases of Diabetes in Canada: Historical and Future Trends Using a Population Based Risk Tool. Joint Meeting of the Statistical Society of Canada and the Société Française de Statistique, Ottawa, ON, 5/26/2008.
44. Can Standard Statistical Methods Remove Selection Bias in Observational Studies? Workshop on Methodological Challenges in Health Research, University of Waterloo, Waterloo, ON, 4/8/2008.
45. Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. Dept. of Statistics and Actuarial Science, Simon Fraser University, Burnaby, BC, 2/1/2008.
46. Analysis of Observational Studies in the Presence of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. 7th International Conference on Health Policy Statistics, Philadelphia, PA, 1/17/2008.
47. Analysis of Observational Studies in the Presence of Treatment Selection Bias. University of Toronto City-Wide Clinical Epidemiology Rounds, Toronto, ON, 11/22/2007.
48. Analysis of Observational Studies in the Presence of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. Dept. of Epidemiology and Biostatistics, University of Western Ontario, London, ON, 10/26/2007.
49. Analysis of Observational Studies in the Presence of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. Dept. of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, 10/15/2007.

50. Diffusion of Cardiac Technology and Outcomes in Ontario Acute Myocardial Infarction Patients, 2000–2004. Annual Research Meeting, Center for the Evaluative Clinical Sciences, Dartmouth Medical School, Holderness, NH, 9/10/2007.
51. Analysis of Observational Studies in the Presence of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. Centre for Health Services and Policy Research, University of British Columbia, Vancouver, BC, 4/30/2007.
52. Causes and Consequences of Regional Variations in Health Care Resource Allocations in Ontario, Canada. Fifth International Conference on Quantitative Modelling in the Management of Health Care, London, UK, 4/3/2007.
53. Analysis of Observational Studies in the Presence Of Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival Using Propensity Score and Instrumental Variable Methods. Dept. of Statistics, University of Toronto, Toronto, ON, 1/11/2007.
54. Causal Inference in Observational Studies using Health Administrative Data. Statistics Canada 23rd International Symposium on Methodological Issues, Ottawa, ON, 11/3/2006.
55. Analysis of Observational Studies in the Presence of Unmeasured Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival. Dept. of Statistics, University of Waterloo, Waterloo, ON, 10/26/2006.
56. Causes and Consequences of Regional Variations in Health Care Resource Allocations in Ontario. Annual Conference of the Canadian Association for Health Services and Policy Research, Vancouver, BC, 9/19/2006.
57. Health Effects of Hospital Utilization Restrictions on Seriously Ill Hospitalized Patients during the Toronto Severe Acute Respiratory Syndrome (SARS) Outbreak. Annual Research Meeting, Center for the Evaluative Clinical Sciences, Dartmouth Medical School, Holderness, NH, 9/11/2006.
58. Randomized Double-Blind Placebo-Controlled Trial to Evaluate the Impact of Vitamin A Supplementation on Maternal Mortality in Rural Ghana, West Africa. Conjoint Rounds, Institute for Clinical Evaluative Sciences, Toronto, ON, 6/21/2006.
59. Analysis of Observational Studies in the Presence of Unmeasured Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival. Annual Meeting of the Statistical Society of Canada, London, ON, 5/29/2006.
60. Analysis of Observational Studies in the Presence of Unmeasured Treatment Selection Bias: Effects of Invasive Cardiac Management on AMI Survival. Boston University Medical School, Boston, MA, 5/16/2006.
61. Causes and Consequences of Regional Variations in Health Care Resources in Ontario. Conference on Health Services Restructuring. John Deutsch Institute for the Study of Economic Policy, Queen's University, Kingston, ON, 11/18/2005.
62. Population Needs-based Funding Models. Discussant, Invited Session, International Conference on Health Policy Research, Boston, MA, 10/29/2005.
63. Causes and Consequences of Regional Variations in Health Care Resources in Ontario. Invited poster. International Conference on the Scientific Basis of Health Services, Montreal, QC, 9/19/2005.

64. Causal Inference in Observational Studies Using Health Administrative Data. Toronto Applied Biostatistics Association, Toronto, ON, 4/12/2005.
65. Creating Regional Boundaries for Ontario LHINs. Local Health Integration Networks: Transforming Healthcare in Ontario. Insight Information Co., Toronto, ON, 2/28/2005.
66. Regional Health Care Practice Variations Across Ontario Local Health Integration Networks. Joint Keynote Speaker. Annual Data Symposium, Institute for Clinical Evaluative Sciences, Toronto, ON, 1/18/2005.
67. Causal Inference in Observational Studies Using Health Administrative Data. Invited workshop, Eli Lilly Canada, Toronto, ON, 12/1/2004.
68. Local Health Integration Network (LHIN) Funding Model Principles Think Tank. Ontario Ministry of Health and Long-term Care, Toronto, ON, 11/5/2004.
69. Long-term Survival Effects of Regional Variation in Invasive vs. Medical Management of Medicare and Ontario AMI Patients. Annual Research Meeting, Center for the Evaluative Clinical Sciences, Dartmouth Medical School, Holderness, NH, 9/13/2004.
70. Use of Area-Level Exposures as Instruments to Study the Effects of Treatment on AMI Mortality. Joint Statistical Meetings, Toronto, ON, 8/10/2004.
71. The Geography of Health Care Spending and Intensity. Ontario Joint Policy and Planning Committee, Volume Sub-Committee, Toronto, ON, 8/5/2004.
72. The Geography of Health Care Spending and Intensity. Cancer Care Ontario, Toronto, ON, 6/21/2004.
73. Long-term Survival Effects of Invasive versus Medical Management of Medicare AMI Patients. 2004 Conference of the Canadian Association for Health Services and Policy Research, Montreal, QC, 5/28/2004.
74. Integration: Creating a Model For Ontario. Ontario Hospital Association Conference on Integration: What is a Made-in-Ontario Solution? Toronto, ON, 5/7/2004.
75. Implications of Regional Variations in Health Care Spending: Are We All Over the Map? The U.S. Experience. Ontario Hospital Association Conference on Accountability, Toronto, ON, 4/20/2004.
76. Implications of Regional Variations in U.S. Medicare Spending: Healthcare Utilization and Outcomes. Clinical Epidemiology Rounds, Toronto General Hospital, Toronto, ON, 2/9/2004.
77. Causal Inferences in Observational Studies Using Administrative Data. Annual Data Symposium, Institute for Clinical Evaluative Sciences, Toronto, ON, 1/19/2004.
78. Long-term Survival Effects of Invasive vs. Medical Management of Medicare AMI Patients: Analysis Using Area-level Exposure Measures. International Conference on Health Policy Research, Chicago, IL, 10/18/2003.
79. Long-term Survival Effects of Invasive vs. Medical Management of Medicare AMI Patients: Analysis Using Area-level Exposure Measures. Invited poster. International Conference on the Scientific Basis of Health Services Research, Washington, DC, 9/23/2003.

80. Determining the Population Health Impact of the Healthcare System Response to the SARS Outbreak. Annual Research Meeting, Center for the Evaluative Clinical Sciences, Dartmouth Medical School, Holderness, NH, 9/16/2003.
81. Long-term Survival Effects of Invasive vs. Medical Management of Medicare AMI Patients. Annual Research Meeting, Center for the Evaluative Clinical Sciences, Dartmouth Medical School, Holderness, NH, 9/15/2003.
82. Removing Bias in Observational Studies Using Propensity Score Adjustment: Debunking the Myths. Parts I, II, III. Institute for Clinical Evaluative Sciences, Toronto, ON, 6/2003–7/2003.
83. The Implications of Regional Variations in U.S. Medicare Spending: Healthcare Utilization and Outcomes. Conjoint Rounds, Institute for Clinical Evaluative Sciences, Toronto, ON, 6/25/2003.
84. Data Quality and Its Implications for Research. Ontario Hospital Association Symposium, Toronto, ON, 3/3/2003.
85. Is More Better? The Effects of Intensity of Medical Care on Survival in the U.S. Medicare Population. Institute for Clinical Evaluative Sciences, Toronto, ON, 10/2001.
86. Is More Better? The Effects of Intensity of Medical Care on Survival in the U.S. Medicare Population. London School of Hygiene and Tropical Medicine, London, UK, 6/2000.
87. Cost Containment of Health Services in the EEC: A Comparison of Germany, France and the United Kingdom. London School of Economics, London, UK, 11/1999.
88. Analysis of Pooled Case-Control Studies. Congres de Biometrie et Epidemiologie 99, Vannes, France, 9/1999.
89. Analysis of Pooled Case-Control Studies. London School of Hygiene and Tropical Medicine, London, UK, 11/1998.
90. Analysis of Pooled Case-Control Studies. International Pooled Melanoma Analysis Conference, Rome, Italy, 4/1998.
91. Analysis of Pooled Case-Control Studies. Division of Biostatistics, University of Virginia School of Medicine, Charlottesville, VA, 4/1998.
92. Comparison of Methods for General Nonlinear Mixed-Effects Models. Division of Statistics, University of Virginia, Charlottesville, VA, 4/1998.
93. Why Clinical Guidelines May Not Succeed. American Statistical Association Annual Meeting, Chicago, IL, 8/1996.
94. Efficient Estimation for General Linear Growth Curve Models. American Statistical Association Annual Meeting, Orlando, FL, 8/1995.
95. Efficient Estimation for General Linear Growth Curve Models. Dept. of Statistics, Harvard University, Boston, MA, 4/1995.
96. Analysis of General Nonlinear Mixed-effects Models. International Biometric Society (ENAR) Spring Meeting, Birmingham, AL, 3/1995.

97. Efficient Estimation for General Linear Growth Curve Models. Dept. of Preventive Medicine, University of Southern California, Los Angeles, CA, 2/1995.
98. Efficient Estimation for General Linear Growth Curve Models. Biometrics Unit, Cornell University, Ithaca, NY, 4/1994.
99. Efficient Estimation for General Linear Growth Curve Models. Dept. of Mathematics, University of Ottawa, Ottawa, ON, 4/1994.
100. Standardized Rates of Recurrent Outcomes. Dept. of Preventive Medicine, University of California at San Diego, 2/1994.
101. Efficient Estimation for General Linear Growth Curve Models. Dept. of Statistics, University of Massachusetts, Amherst, MA, 11/1993.
102. Efficient Estimation for General Linear Growth Curve Models. Dept. of Biostatistics, Harvard School of Public Health, Boston, MA, 11/1993.
103. Statistics in Health Studies. Invited Discussant. American Statistical Association Annual Meeting, San Francisco, CA, 8/1993.
104. Statistical Analysis Techniques for Longitudinal Data. London School of Hygiene and Tropical Medicine, London, UK, 5/1993.
105. Pneumonia Morbidity in Children after Supplementation with High-dose Vitamin A. World Health Organization, Geneva, Switzerland, 2/1993.
106. Standardized Rates of Recurrent Outcomes. Dept. of Biostatistics, Harvard School of Public Health, Boston, MA, 12/1992.
107. Nonlinear Growth Curve Analysis. Dept. of Biostatistics, Stanford University, Palo Alto, CA, 4/1991.
108. Nonlinear Growth Curve Analysis. Dept. of Mathematics and Statistics, York University, Toronto, ON, 11/1990.
109. Nonlinear Growth Curve Analysis. Dept. of Statistics, University of Waterloo, Waterloo, ON, 11/1990.
110. Nonlinear Growth Curve Analysis. Dept. of Biostatistics, Harvard School of Public Health, Boston, MA, 3/1990.
111. Nonlinear Growth Curve Analysis. Dept. of Preventive Medicine and Biostatistics, University of Toronto, Toronto, ON, 2/1990.
112. Nonlinear Growth Curve Analysis. Dept. of Epidemiology and Biostatistics, McGill University, Montreal, QC, 9/1989.
113. Repeated Measures: Issues and Methods. Montreal Children's Hospital Research Institute, McGill University, Montreal, QC, 9/1989.
114. A Generalization of Linear Logistic Models. Dept. of Biostatistics, Johns Hopkins University, Baltimore, MD, 4/1986.

115. A Generalization of Linear Logistic Models. Dept. of Mathematics, University of Vermont, Burlington, VT, 3/1986.
116. A Generalization of Linear Logistic Models. Dept. of Statistics, University of Massachusetts at Amherst, 4/1985.
117. A Generalization of Linear Logistic Models. Biostatistics and Epidemiology Group, Dartmouth Medical School, Hanover, NH, 4/1984.
118. A Generalization of Linear Logistic Models. Dept. of Statistics, Queen's University, Kingston, ON, 3/1984.

RESEARCH SUPPORT

As Principal Investigator or Co-Principal Investigator

1. CIHR Team Grant in Applied Health Services and Policy Research. Health Care System Sustainability through Longitudinal Efficiency: Improved Quality and Lower Costs. T.A. Stukel, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$290,393. 12/1/2008–11/30/2014. Percent effort: 40%.
2. Determining the Population Health Impact of the Healthcare System Response to the SARS Outbreak. T.A. Stukel and M.J. Schull, Co-Principal Investigators. Canadian Institutes of Health Research. Annual direct cost: \$91,989. 3/1/2004–3/31/2007. Percent effort: 40%.
3. Development of Ontario LHIN Boundaries. T.A. Stukel, Principal Investigator. Ontario Ministry of Health and Long-Term Care. Total cost: \$60,000. 3/1/2004–6/30/2004. Percent effort: 10%.
4. Analysis of Current Research Related to the Impact of Low-volume Procedures/Surgery and Care on Outcomes of Care. D.A. Urbach and T.A. Stukel, Co-Principal Investigators. Canadian Institute for Health Information. Total cost: \$21,996. 2/1/2004–5/31/2004. Percent effort: 10%.
5. International Conference for Health Policy Research, Chicago, IL, Oct 17–19, 2003. Agency for Healthcare Research and Quality. Total award: US\$10,000. Percent effort: 5%.
6. Mathematics Across the Curriculum. D Wallace, Principal Investigator; T.A. Stukel, Co-Principal Investigator. National Science Foundation (DUE 9552462). Annual direct cost: US\$746,337. 9/1/1995–8/31/2000. Percent effort: 15%.
7. Longitudinal Methods in Cancer Research (Competing renewal of above grant). T.A. Stukel, Principal Investigator. National Institutes of Health (R01 CA52192). Annual direct cost: US\$147,802. 9/1/2000–8/31/2004. Percent effort: 30%.
8. Longitudinal Methods in Cancer Treatment and Prevention (Competing renewal of above grant). T.A. Stukel, Principal Investigator. National Cancer Institute (R01 CA52192). Annual direct cost: US\$130,524. 7/1/1995–6/30/1999. Percent effort: 30%.
9. Tumor Growth Curve Analysis. T.A. Stukel, Principal Investigator. National Cancer Institute (R01 CA52192). Annual direct cost: US\$56,043. 12/1/1990–11/30/1994. Percent effort: 35%.
10. Predictors of Coliform Contamination in Small Rural Communities. T.A. Stukel, Principal Investigator. Hitchcock Foundation. Total cost: US\$1,280. 4/1/1988–3/31/1989.

11. Microbiological Sampling Scheme for Small Community Water Supplies. F. Reed, Principal Investigator; TA Stukel, Principal Investigator on subcontract. Environmental Protection Agency. Total cost: US\$10,000 (for subcontract), 11/1/1983–10/31/1986.

As Co-Investigator or Statistical Director

1. CIHR Team Grant in Chronic Disease Risk and Intervention Strategies. Measuring and Improving the Quality of Ambulatory Care for People with Cardiovascular Risk Factors and/or Chronic Diseases. J.V. Tu, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$398,748. 4/1/2012-3/31/2017. Percent effort 2%.
2. Improving the assessment and treatment of severe aortic stenosis by evaluating care gaps and advancing risk predictions. D. Ko, Principal Investigator. Heart and Stroke Foundation of Ontario (HSFO). Annual direct cost: \$110,352. 7/1/2012-6/30/2015. Percent effort 2%.
3. Socioeconomic status, quality of primary care, and survival following acute myocardial infarction: A ten-year follow-up of the Socio-economic status acute myocardial infarction study. D.A. Alter, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$60,000. 04/1/2012-3/31/2014. Percent effort 2%.
4. Making Difficile More Facile in Ontario: Finding the Active Ingredients in Successful Clostridium difficile prevention efforts. N. Daneman, Principal Investigator. MOHLTC AHSC AFP Innovation Fund. Annual direct cost: \$70,854. 04/2012-03/2013. Percent effort 2%.
5. Paying for Primary Care: Relationship Between Incentives and Patient/Provider Characteristics. R.S. Deber and J. Barnsley Principal Investigators. Canadian Institutes of Health Research. Annual direct cost: \$120,052. 10/1/2011–9/30/2014. Percent effort 2%.
6. ACUTE Study: Acute Congestive Heart Failure Urgent and Transitional Care Evaluation. D.S. Lee, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$129,672. 10/1/2011–9/30/2015. Percent effort: 2%.
7. National Comparison of Intensity of End-of-Life Care in Canada: Defining Changing Patterns, Risk Factors and Targets for Intervention. R. Fowler, Principal Investigator. Canadian Institutes of Health Research. Total cost: \$99,208. 10/1/2011-09/30/2013. Percent effort: 2%.
8. The Ontario Crohn's and Colitis Cohort: Epidemiology and Diagnostic Lag of Inflammatory Bowel Disease in Ontario, Canada. E.I. Benchimol, Principal Investigator. American College of Gastroenterology. Total amount: US\$150,000. 7/1/2011–6/30/2013. Percent effort: 2%.
9. Measuring and Improving the Quality of ST-Segment Elevation Myocardial Infarction (STEMI) Care. J.V. Tu, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$248,979. 4/1/2011–3/31/2015. Percent effort: 2%.
10. Assessing the Appropriateness of Coronary Revascularization for Patients with Coronary Artery Disease. D. Ko, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$151,706. 4/1/2010–3/31/2013. Percent effort: 2%.
11. Respiratory Research Response Program: Providing Evidence to Support Chronic Obstructive Pulmonary Disease Drug Policy. A. Gershon, Principal Investigator. Ontario Ministry of Health and Long-Term Care Drug Innovation Fund. Annual direct cost: \$213,941. 7/1/2009–6/30/2012. Percent effort: 2%.

12. Emergent Care and Outcomes of Acute Heart Failure. D.S. Lee, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$144,730. 4/1/2008–3/31/2012. Percent effort: 2%.
13. Measuring the Quality of Hospital Care for Children and Youth in Canada. A. Guttman, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$25,000. 7/1/2008–6/30/2012. Percent effort: 2%.
14. CIHR Team Grant in Population-based Colorectal Cancer Screening. L. Rabeneck, Principal Investigator. Canadian Institutes of Health Research. Total amount: \$2,443,467. 10/1/2007–9/30/2012. Percent effort: 2%.
15. Waiting with an Emergency. M.J. Schull and R.S. Bell, Principal Investigators. Canadian Health Services Research Foundation. Total amount: \$498,088. 10/1/2007–9/30/2012. Percent effort: 2%.
16. Return on Investment from Pharmaceutical Care: Measuring Population-based Causes and Consequences of Prescription Drug Utilization and Expenditure. S. Morgan, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$185,228. 7/1/2007–6/30/2010. Percent effort: 2%.
17. Examining the Impact of Primary Care Reform in Ontario on Access to and Quality of Care. R.H. Glazier, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$179,181. 4/1/2008–3/31/2012. Percent effort: 2%.
18. Evaluation of the Emergency Department General Internal Medicine Patient Flow Toolkit. M.J. Schull, Principal Investigator. Ontario Ministry of Health and Long-Term Care. Total amount: \$1,133,397. 4/1/2007–3/31/2011. Percent effort: 2%.
19. Evaluating and Improving the Quality of Care and Outcomes of Percutaneous Coronary Interventions in Canada. D.T. Ko, Principal Investigator. Canadian Institutes of Health Research. Total amount: \$109,409. 4/1/2007–3/31/2010. Percent effort: 2%.
20. CIHR Team Grant in Cardiovascular Outcomes Research (CCORT II). J.V. Tu, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$842,910. 4/1/2006 – 3/31/2012. Percent effort: 5%.
21. Care Gaps Among High-Risk Cardiovascular Patients: Evaluating the Inappropriateness and Clinical Significance of the Treatment-risk Paradox. D.A. Alter Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$84,017. 4/1/2006–3/31/2009. Percent effort: 30%.
22. Ontario Women's Health Report Card: Improving Health and Promoting Equity for the Women of Ontario. A.S. Bierman, Principal Investigator. Ontario Ministry of Health and Long-Term Care. Annual direct cost: \$1,429,767. 3/1/2006–2/28/2009. Percent effort: 2%.
23. Evaluation of Ontario's Universal Influenza Immunization Program. D.G. Manuel, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$272,932. 11/1/2005–10/31/2009. Percent effort: 5%.
24. Primary Care Practice Characteristics and Regional Physician Supply: Effects on Access to Primary and Specialty Care for Children in Ontario. A. Guttman, Principal Investigator. Physicians' Services Inc. Annual direct cost: \$61,500. 11/1/2005–10/31/2007. Percent effort: 2%.

25. Population Health Impact Assessment Tools for Obesity and Diabetes Mellitus Type 2 (PHIAT-DM). D.G. Manuel, J.M. Berthelot, L.L. Roos, Principal Investigators. Canadian Institutes of Health Research. Annual direct cost: \$147,788. 4/1/2005–3/31/2009. Percent effort: 5%.
26. Exploring the Association between Ownership Status of Ontario's Long-term Care Facilities and the Quality of Care. P.A. Rochon and M. Hillmer, Principal Investigators. Canadian Institutes of Health Research. Annual direct cost: \$73,802. 4/1/2005–3/31/2008. Percent effort: 5%.
27. Measuring Health Inequalities among Canadian Women: Developing a Basket of Indicators. A. Bierman, Principal Investigator. Health Canada. Total direct cost: \$299,971. 11/1/2004–10/31/2006. Percent effort: 2%.
28. Serious Complications of Colonoscopy among Four Canadian Provinces. L. Rabeneck, Principal Investigator. Canadian Institutes of Health Research. Annual direct cost: \$100,000. 7/1/2004–6/30/2005. Percent effort: 2%.
29. Risk of Advanced Proximal Neoplasia of the Colon in Asymptomatic Adults. L. Rabeneck, Principal Investigator. Canadian Institutes of Health Research. Total cost: \$962,659. 4/1/2004–3/31/2009. Percent effort: 2%.
30. Physician and System Determinants of Non-Invasive Cardiac Testing. D. Alter, Principal Investigator. Heart and Stroke Foundation of Canada. Annual direct cost: \$19,705. 7/1/2003–6/30/2005. Percent effort: 5%.
31. Causes and Consequences of Health Care Intensity. J. Skinner, Principal Investigator. National Institute on Aging. Annual direct cost: US\$868,316. 9/15/2001–8/31/2006. Percent effort: 5%.
32. Public Reporting on Hospital Volumes. J. Birkmeyer, Principal Investigator. Centers for Medicare and Medicaid Services. Annual direct cost: US\$206,693. 7/31/2001–1/31/2003. Percent effort: 10%.
33. CIHR Team Grant in Pharmacological Management of Chronic Disease in Older Adults. P.A. Rochon, Principal Investigator. Canadian Institutes of Health Research. Total cost: \$1,147,595. 4/1/2001–3/31/2007. Percent effort: 2%.
34. Benefits of Regionalizing Surgery for Medicare Patients. J.D. Birkmeyer, Principal Investigator. Agency for Health Care Research and Quality. Annual direct cost: US\$208,783. 4/1/2000–3/31/2003. Percent effort: 15%.
35. Panel-Based Pain Management in Primary Care. T. Ahles, Principal Investigator. Agency for Health Care Policy and Research. Annual direct cost: US\$374,537. 10/1/1999–9/30/2002. Percent effort: 10%.
36. Is More Actually Better? The Implications of Increasing Capacity in Health Care. E.S. Fisher, Principal Investigator. R.W. Johnson Foundation. Annual direct cost: US\$567,592. 11/1/1997–10/31/2001. Percent effort: 30%.
37. The Epidemiology of Asthma Medication Prescribing. D.C. Goodman, Principal Investigator. American Lung Association of New Hampshire. Annual direct cost: US\$25,000. 7/1/1997–6/30/1998. Percent effort: 2%.
38. Women's Risk of Melanoma: Reproductive and Hormonal Factors. M.R. Karagas, Principal Investigator. National Cancer Institute. Annual direct cost: US\$739,284. 8/1/1995–6/30/2002. Percent effort: 10%.

39. Dartmouth Atlas Project. J.E. Wennberg, Principal Investigator. R.W. Johnson Foundation. Annual direct cost: US\$1,010,518. 5/1/1994–7/31/2004. Percent effort: 20%.
40. Cancer Pain Management in Community Based Rural Settings. T. Ahles, Principal Investigator. US National Cancer Institute. Annual direct cost: US\$146,725. 9/30/1994–7/31/1998. Percent effort: 10%.
41. Aspirin Prevention of Large Bowel Polyps. J.A. Baron, Principal Investigator. National Cancer Institute. Annual direct cost: \$775,429. 9/30/1993–9/30/1998. Percent effort: 15%.
42. Controlled Trial of Telephone Care in Medical Patients. J. Wasson, Principal Investigator. Agency for Health Care Policy and Research. Annual direct cost: US\$319,616. 9/30/1993–9/29/1996. Percent effort: 10%.
43. Epidemiology of Non-melanoma Skin Cancer in New Hampshire. M.R. Karagas, Principal Investigator. National Cancer Institute. Annual direct cost: US\$304,4490. 4/1/1993–11/30/2001. Percent effort: 10%.
44. Community Centers of Excellence in Aging. J. Wasson, Principal Investigator. Hartford Foundation. Annual direct cost: US \$219,148. 2/15/1993–2/14/1996. Percent effort: 5%.
45. Center for Psycho-oncology Research at Dartmouth. P.M. Silberfarb, Principal Investigator. American Cancer Society SIG-19. Annual direct cost: US\$200,000. 7/1/1992–6/30/1997. Percent effort: 10%.
46. Intraoperative Radiation Therapy and Hyperthermia. T.A. Colacchio, Principal Investigator. National Cancer Institute. Annual direct cost: US\$402,000. 6/1/1990–5/31/1994. Percent effort: 10%.
47. Human Blood and Tissue Levels of Vitamins A, E and Carotenoids. D.W. Nierenberg, Principal Investigator. National Cancer Institute. Annual direct cost: US\$187,972. 2/1/1990–1/31/1994. Percent effort: 15%.
48. Cancer Pain: Intraspinal vs. Conventional Narcotics. D. Coombs, Principal Investigator. National Cancer Institute. Annual direct cost: US\$108,000. 1/1/1984–12/31/1988. Percent effort: 5%.
49. Antioxidants in Chemoprevention of Colorectal Neoplasms. T.A. Colacchio, Principal Investigator. National Cancer Institute. Annual direct cost: US\$88,000. 9/15/1984–4/30/1988. Percent effort: 5%.
50. Chemopreventive Trial of Beta-carotene in Skin Cancer. E.R. Greenberg, Principal Investigator. National Cancer Institute. Annual direct cost: US\$820,000. 9/30/1982–8/31/1992. Percent effort: 40%.
51. Cancer Center Support (Core) Grant. E.R. Greenberg, Principal Investigator. National Cancer Institute. Annual direct cost: US\$856,522. 9/1/1978–6/30/2004. Percent effort: 10%.