



**Final NET Report
April 1, 2002 – March 31, 2007**

Funded by the Institute of Aging
Canadian Institutes of Health Research (CIHR)

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Executive Summary

In April 2002, McMaster University investigators received \$1.2 million from the Canadian Institutes for Health Research (CIHR) in the form of a 5-year New Emerging Team (NET) grant to support the development of the TIPPS program.

The TIPPS program was unique in that it brought together researchers from several different backgrounds to focus on medication use by seniors in primary care from a multidisciplinary, collaborative perspective. By working together, the Team used their combined expertise to investigate better solutions to the problems seniors face when choosing or using medications. The focus was on finding solutions that met each patient's individual needs, while taking into account the experience of the health care providers and the health care system in general.

The TIPPS Team

Investigators

The TIPPS team of investigators was comprised of nine multi-disciplinary researchers. Lisa Dolovich, a pharmacist, led the team as principal investigator. TIPPS investigators represented a variety of backgrounds, including family medicine, pharmacy, clinical pharmacology, geriatrics, internal medicine, sociology, nursing, biostatistics and epidemiology.

Trainees

From April 2002 to March 2007, 18 trainees were affiliated with TIPPS. TIPPS attracted trainees from varied disciplines including nursing, family medicine, pharmacy, health research methods, biostatistics, and pharmaceutical sciences. Trainees had the opportunity to participate in TIPPS research and present this work at relevant conferences. Trainees also participated in brief education sessions related to conducting research in the area of primary care, seniors, and medications.

TIPPS Research

TIPPS research projects focused on developing individualized solutions for patients, providers, and the health care system in the following areas: improving the use of therapeutic information, enhancing shared decision-making, reducing inappropriate prescribing, increasing the use of underutilized medications, determining the effect of multiple medications on an individual's benefit or risk profile, and improving compliance.

From April 1 2002 to March 31st 2007, 21 studies were internally funded by TIPPS (\$56,616), 27 studies enabled by and 39 related to TIPPS successfully attained external peer-reviewed funding (\$24,377,077), and 10 systematic reviews were completed. TIPPS research was disseminated as 178 academic posters or presentations. TIPPS research was also represented in 78 publications (including abstracts).

The TIPPS Network

One of the goals of TIPPS was to develop a large Network of primary care physicians, community pharmacists and patients that could collaborate with the research team to address the many drug-related problems facing seniors. By the end of Year 5 the TIPPS Network included 406 physicians, 97 pharmacists, 61 nurses, 72 patients, and 17 other participants.

During the 5-year CIHR-funded NET grant, Network members were invited to participate in many of the TIPPS-enabled research projects, received regular communication via TIPPS quarterly newsletter, were invited to continuing education workshops and presentations of TIPPS research project findings. Clinician Network members also received Clinical Updates on a variety of topics relevant to medication use and primary care (i.e. adjusting Insulin in Type 2 Diabetes patients, constipation, and renal function in the elderly). These Updates were developed by investigators and trainees.

The TIPPS Team

The TIPPS team of investigators was comprised of nine multi-disciplinary researchers. Lisa Dolovich, a pharmacist, led the team as principal investigator. TIPPS investigators represented a variety of backgrounds, including family medicine, pharmacy, clinical pharmacology, geriatrics, internal medicine, sociology, nursing, biostatistics and epidemiology. Level of research experience varied among the TIPPS team. The more senior investigators (those with a significant research experience history) were able to provide guidance and mentorship to the junior investigators (those just starting their research careers).

Investigators met regularly as a large group to discuss program objectives and activities and develop research ideas. Meetings were also held with smaller groups of investigators regarding individual projects.

TIPPS Investigators

Lisa Dolovich, BScPhm PharmD MSc - Principal Investigator

Gina Agarwal, MBBS MRCGP CCFP

Chris Butler, BA MBChB DCH MRCGP CCH MD

Anne Holbrook, MD PharmD MSc FRCPC

Sharon Kaasalainen, RN PhD

Janusz Kaczorowski, BA MA PhD

Mitchell Levine, MD MSc FRCPC FISPE

Alexandra Papaioannou, MD MSc FRCPC

Lehana Thabane, MSc PhD

TIPPS Associate Investigators

Kevin Brazil, PhD

Michael Paterson, BSc MSc

Connie Sellors, BScPhm

TIPPS Staff

Onalea Agnew – Research Assistant

Sheri Burns, BA – TIPPS Network Coordinator

Anita DiLoreto – Project Assistant

Kalpana Nair, MEd MSc – TIPPS Program Coordinator

TIPPS Trainees

From April 2002 to March 2007, 18 trainees were affiliated with TIPPS. TIPPS attracted trainees from varied disciplines including nursing, family medicine, pharmacy, health research methods, biostatistics, and pharmaceutical sciences. All trainees had the opportunity to participate in TIPPS research, 15 presented this work at relevant conferences, meetings or research forums, and 13 were able to attain a publication (article or abstract) from work done through TIPPS. Trainees also regularly had the opportunity to present their own research to the TIPPS team for input and feedback.

Funding was allocated annually to encourage and support trainees in building their research skills and presenting this research at academic conferences. Each trainee was eligible to apply for \$750 each year for conference-related expenses. Additionally, trainees could apply to TIPPS for internal funding (up to \$5000) to support developing and implementing research projects (i.e. thesis projects).

In year 4 trainees had the opportunity to develop their writing skills by working in groups of 3 to write a critical appraisal. These appraisals (n=4) were published by Canadian Family Physician.

Trainees participated in 14 semi-structured Learning Sessions, led by TIPPS investigators, on topics that included:

- Issues related to research in medication prescribing and use
- Issues related to writing and reviewing research proposals
- Understanding the role of physician values in prescribing
- Critical appraisal of the literature
- How to report statistical analysis results
- Bayesian analysis
- Issues regarding research on medication use in the elderly from the nursing perspective
- Understanding the use of composite outcomes
- Drug decision-making at the federal & provincial levels
- Understanding regression analysis
- Writing manuscripts for publication/Critical appraisal of the literature
- Understanding external validity
- Methods/challenges associated with primary care chart audit
- Using administrative databases

TIPPS trainees (April 2002-March 2007)

Hani Abushomar, PhD Candidate	(HRM)
Janine Arkinson, MSc Candidate	(HRM)
Imaan Bayoumi, MD Research Fellow	(Family Medicine)
Jarold Cosby, MA PhD	(HRM)
Wendy Ellis, BScN MSc Candidate	(Nursing)
Anna Emily, BSc, MD Post Doctoral Fellow	(Family Medicine)
Michelle Howard, MSc PhD Candidate	(HRM)
Alice Huh, BScPhm	(Pharmacy)
Hedy Jiang, BSc	(Mathematics and Statistics)
Jane Jurcic-Vrataric, BScPhm MSc	(HRM)
Tina Karwalajtys, MA PhD Candidate	(HRM)
Elaine Lau, BScPhm PharmD MSc Candidate	(HRM, Pharmacy)
Kathy Li, MSc Candidate	(HRM)
Lisa McCarthy, BScPhm PharmD Post Doctoral Fellow	(Pharmacy)
Kalpana Nair, MEd MSc PhD Candidate	(HRM)
Jennifer Pereira, MSc PhD Candidate	(Pharmaceutical Sciences)
Kaye Philips, MSc PhD Candidate	(Pharmaceutical Sciences)
Adnan Qureshi, MSc Candidate	(HRM)

NOTE: HRM=Health Research Methodology

TIPPS Research

The overriding principle of TIPPS research was to explore practical solutions that explicitly recognized the uniqueness of individual patients, while taking into account the experience of the provider and the broader characteristics of the health care system.

TIPPS research projects focused on:

- Improving the use of therapeutic information
- Decision-making
- Enhancing appropriate prescribing
- The effect of multiple medications on an individual's benefit or risk profile
- Improving adherence

From April 1 2002 to March 31, 2007, 21 studies were internally funded by TIPPS (\$56,616), 27 studies enabled by and 39 related to TIPPS successfully attained external peer-reviewed funding (\$24,377,077), and 10 systematic reviews were completed.

TIPPS investigators and trainees actively presented this research at relevant academic conferences, meetings, and research forums, as well as through publications in scientific journals. In total, TIPPS research was disseminated as 155 academic posters or presentations and was represented in 84 publications (including abstracts).

Definitions

- A **TIPPS 'enabled' study** is a study that originated from the TIPPS team or a TIPPS working group and relates directly to primary care, seniors, or medications.
- A **TIPPS 'relevant' study** is relevant to the overall TIPPS program and has at least one TIPPS investigator on the study.

Internal TIPPS Funded Studies

1. Attitudes of Women who Are currently using or Recently stopped Estrogen replacement therapy with or without progestins (AWARE). **Huh A** (Co-PI), Sawka A (co-PI), **Papaioannou A**, Adachi J, Steiner M, **Dolovich L**, Eva K, **Thabane L**, Gafni A, Cullimore A, MacDougall M. Funded by TIPPS. February 2003-Feb 2004. **\$1000**
2. Oral vitamin B12 versus parenteral vitamin B12 for vitamin B12 deficiency. A Systematic Review. **Butler C** (PI), **Papaioannou A**, Vidal-Alaball J, Hood K, Cannings R, McCaddon A. Funded by TIPPS. September 2002-September 2003. **(part of \$5060)**
3. A health economics evaluation of oral vitamin B12 use in seniors. **Butler C** (PI), Vidal-Alaball J, Potter CC. Funded by TIPPS. September 2002-September 2003. **part of \$5060**
4. Blood Pressure Awareness and Self-Monitoring Practices among Primary Care Elderly Patients Attending a Pharmacy-based Cardiovascular Awareness Program. **Kaczorowski J** (PI), **Dolovich L**, **Karwalajtys T**, **Levine M**, **Lau E**. Funded by TIPPS. April 2003-September 2003. **\$1458**
5. Is there an association amongst current medication use, clinical lab values and quality of life scores in patients with type 2 diabetes (sub-study of GSK). **Levine M** (PI), **Jurcic J**, Gaebel K. Unfunded. January 2004-May 2004.
6. The development of a questionnaire to assess patient priorities in diabetes. **Holbrook A** (PI), **Dolovich L**, **Nair K**, **Xu S**, **Jiang H**, **Thebane L**. Funded by TIPPS. February 2004-August 2004. **\$3547.30**
7. A survey to assess the willingness and ability of older adults to self manage their blood pressure. **Kaczorowski J** (PI), **Dolovich L**, **Karwalajtys T**, **Levine M**, **Lau E**. Funded by TIPPS. March 2004-May 2005. **\$3000**

8. A database analysis to evaluate trends in complications from acute infections in relation to trends in antibiotic prescribing in primary care. **Butler C** & Cannings R. Funded by TIPPS. March 2004-March 2005. **(part of) \$5060**
9. Exploring patient perception about strategies to improve adherence to osteoporosis therapies: A qualitative study. **Papaioannou A** (PI), **Lau E, Dolovich L**, Adachi R, Sawka A. Funded by MERCK; TIPPS; CIHR student award. April 2004-Sept 2005. **\$10,000; \$4,996; \$5,000**
10. Exploring the experiences of Canadian family physicians towards management decisions in seniors with type 2 diabetes; a qualitative pilot study. **Agarwal G** (PI), **Levine M, Dolovich L, Cosby J, Kaczorowski J, Nair K, Butler C**. Funded by TIPPS. May 2004-February 2005. **\$5000**
11. The incidence and treatment of severe hypoglycemia by ambulance attendants in the Halton catchment area: a descriptive analysis of events Sep 2002 to Sep 2003. Swanson G (PI), **Kaczorowski J**, Stempien M, Dorcas M, Parkinson C, **Agarwal G**. Funded by TIPPS. May 2004-December 2005. **\$2000**
12. Exploring the experiences of Canadian family physicians towards management decisions in seniors with type 2 diabetes; a qualitative study (Interviews). **Agarwal G** (PI), **Levine M, Dolovich L, Cosby J, Kaczorowski J, Nair K, Butler C**. Funded by Janus Foundation and TIPPS. July 2005-December 2006. **\$4962.24; \$1052**
13. A survey for diabetes educators: teaching patients with type 2 diabetes about insulin. **Jurcic J** (PI), **Dolovich L**, Gerstein H, Neibert M, **Thabane L**. Funded by TIPPS. April 2005-Dec 2005. **\$4950**
14. An Individualized Risk and Benefit Assessment of Warfarin. **Pereira J** (PI), **Holbrook A, Thabane L**, van Walraven C. Funded by TIPPS. April 2005-March 2007. **\$4650**
15. Conducting Health Services Research in Primary Care: Lessons Learned from an Interdisciplinary Program of Research. **Dolovich L** (PI), **Nair K, Burns S** (on behalf of TIPPS). Unfunded. May 2005-June 2006.
16. Cardiovascular Health Awareness Program (CHAP) Patient Self-Assessment Pilot. **Karwalajtys T** (PI), **Kaczorowski J**, Chan D, **Dolovich L**. Funded by TIPPS. Sept 2005-Sept 2006. **\$5000**
17. A randomized controlled trial comparing two educational strategies on insulin administration: the effect on decisions, fears and attitudes surrounding insulin therapy. **Jurcic J** (PI), **Dolovich L**, Gerstein H, Neibert M, **Thabane L**. Funded by TIPPS. July 2005-March 2006. **\$4,246.44**
18. Multifaceted Intervention to Improve Prescribing of Medication Requiring Dose Adjustments in Patients with Chronic Kidney Disease. **Bayoumi I** (Co-PI), **McCarthy L** (Co-PI), Chan D, **Dolovich L, Kaczorowski J, Papaioannou A**. Funded by TIPPS. March 2006-September 2007. **\$4959.70**
19. Nurse's Medication Management Processes in Long term Care: A Grounded Theory Study. **Ellis W** (PI, thesis), **Kaasalainen S**, Ploeg J, Baxter P. Unfunded. March 2006-August 2006.
20. Nurses' Perceptions of Their Medication Administration System in Long-Term Care. **Kaasalainen S** (co-PI), **Agarwal G** (co-PI), **Dolovich L, Papaioannou A, Brazil K**. Funded by TIPPS. January 2007-September 2007. **\$4147**
21. The Canadian Public's Perspectives on Physician-Pharmaceutical Industry Interactions. Arkinson J (PI), **Holbrook A, Dolovich L**. Funded by TIPPS. December 2006-December 2007. **\$1550**

External Peer-Reviewed Funded Studies

TIPPS-Enabled

1. Community strategies to monitor high blood pressure among older adults: a randomized controlled trial (CHAT). **Kaczorowski J** (Co-PI), Chambers L (Co-PI), **Dolovich L, McDonough B, Gurguis-Younger M, Sebaldt R, Karwalajtys T, Hall H, O'Rourke K, Thabane L**, (on behalf of CHAP working group). Funded by CIHR. 2002-2005. **\$446,997.00**

2. Communicating therapeutic information to patients: A survey to determine the importance and scope of features that seniors consider when reviewing written information about drug therapy (TI Study). **Dolovich L** (PI), **Lau E**, Marshall D, **Thabane L**, **Agarwal G**, **Butler C**, **Holbrook A**, **Levine M**, **Papaioannou A**. Funded by Drug Information Association & Green Shield Canada. June 2003-November 2005. **\$23,825.88 (US\$) & \$27,000 (CDN)**
3. Optimizing and reducing drug excess in renal insufficiency (ORDER). **Papaioannou A** (PI), Ray J, Garg A, Goeree R, Ferko N, Campbell G, **Dolovich L**, **Holbrook A**, **Kaczorowski J**, **Agarwal G**, **Butler C**, **Levine M**. Funded by OPOT. August 2003-December 2005. **\$14,020**
4. Evaluation of patient access to diabetic medication. **Levine M** (PI), **Dolovich L**, **Cosby J**, Gaebel K, **Kaczorowski J**, Segal S, LeLorier J. Funded by GlaxoSmithKline. July 2003-December 2005. **\$359,705**
5. Community-Wide Implementation of the Peer Health Educator Program for Monitoring Blood Pressure (CHAP Study). **Kaczorowski J** (Co-PI), Chambers L (Co-PI), **Dolovich L**, McDonough B, Gurguis-Younger M, Sebaldt R, **Karwalajtys T**, Hall H, O'Rourke K, **Thabane L**, (on behalf of CHAP working group). Funded by MOH & LTC. November 2003-August 2004. **\$329,782**
6. Integrating family Medicine and Pharmacy to Advance primary Care Therapeutics (IMPACT). **Dolovich L** (Co-PI), Pottie K (Co-PI), **Kaczorowski J**, **Sellors C**, Farrell B, **Lau E**, **Howard M**, on behalf of IMPACT working group. Funded by PHCTF. January 2004-August 2006. **\$1.9 million**
7. Pharmacist integration with Ontario family physician group practices: A qualitative evaluation from a health policy, generalizability, and sustainability perspectives to determine appropriate models of collaboration (SMART II Plus). **Dolovich L** (Co-PI), **Kaczorowski J** (Co-PI), **Sellors C**, Levitt C, Austin Z, **Lau E**, **Howard M**, Woodward C, Goeree R. Funded by PHCTF(MOH & LTC). April 2003-August 2004. **\$61,250.00**
8. Community Peer Health Educator Program: Public Health Units, Family Physicians, Pharmacies, and Volunteer Associations Deploying Older Adults as Peer Health Educators to Promote Cardiovascular Health. **Kaczorowski J** (Co-PI), Chambers L (Co-PI), **Dolovich L**, McDonough B, Gurguis-Younger M, Sebaldt R, **Karwalajtys T**, Hall H, O'Rourke K, **Thabane L**, (on behalf of CHAP working group). Funded by MOH & LTC. April 2003-March 2004. **\$131,051.00**
9. How beliefs and attitudes around pain affect decision-making by nurses and physicians in long-term care. **Kaasalainen S** (PI), **Dolovich L**, **Papaioannou A**, Coker E, **Emili A**. Funded by CIHR, Institute of Aging. March 2004-March 2005. **\$37,240**
10. Exploring patient perception about strategies to improve adherence to osteoporosis therapies: A qualitative study. **Papaioannou A** (PI), **Lau E**, **Dolovich L**, Adachi R, Sawka A. Funded by MERCK; TIPPS; CIHR student award. April 2004-Sept 2005. **\$10,000; \$4,996; \$5,000**
11. Exploring patient perception about strategies to improve adherence to medication therapies: A qualitative study. **Papaioannou A** (PI), **Lau E**, **Dolovich L**, **Emili A**, Kennedy C, **Nair K**, Raina P. Funded by Green Shield Canada. July 2004-March 2006. **\$23,013.50**
12. Depression in the community dwelling elderly. **Emili A** (PI), **Kaczorowski J**, Chan D, **Dolovich L**, **Papaioannou A**. Funded by College of Family Physicians of Canada Research and Education Foundation (Janus). July 2004-Oct 2005. **\$4999**
13. Improving Prescribing of Medications and Patient Safety in Long-Term Care. **Papaioannou A** (PI), **Dolovich L**, **Levine M**, Ray J, Raina P, Garg A, **Holbrook A**, **Kaasalainen S**, **Emili A**. Funded by CIHR. January 2005-January 2007. **\$185,574**
14. Transition to insulin; a qualitative study of the experience of patients with type 2 diabetes. **Butler C** (PI), Peters J, Rollnick S, Cunningham AM, Robling M, **Agarwal G**, Kinnersley P. Funded by Dept of Family Medicine Endowment Fund, University Hospital of Wales. July 2004-July 2006. **£30,000**
15. Community Health Awareness of Diabetes (CHAD) - phase 1 (program development). **Agarwal G** (PI), **Kaczorowski J**. Funded by Kidney foundation & Sanofi-Aventis. September 2004-August 2005. **\$100,000**

16. Community Health Awareness of Diabetes (CHAD) - phase 2 (chart audit and evaluation). **Agarwal G** (PI), **Kaczorowski J**. Funded by HHSC Foundation. March 2005-March 2007. **\$24,380**
17. Exploring the experiences of Canadian family physicians towards management decisions in seniors with type 2 diabetes; a qualitative study (Nominal groups). **Agarwal G** (PI), **Levine M**, **Dolovich L**, **Cosby J**, **Kaczorowski J**, **Nair K**, **Butler C**. Funded by Green Shield of Canada. August 2005-August 2006. **\$23,000**
18. Exploring the experiences of Canadian family physicians towards management decisions in seniors with type 2 diabetes; a qualitative study (Interviews). **Agarwal G** (PI), **Levine M**, **Dolovich L**, **Cosby J**, **Kaczorowski J**, **Nair K**, **Butler C**. Funded by Janus Foundation and TIPPS. July 2005-December 2006. **\$4962.24; \$1052**
19. Cardiovascular Health Awareness Program - Ontario Stroke Strategy (CHAP-OSS). **Kaczorowski J** (Co=PI), Chambers L (Co=PI), **Dolovich L**, McDonough B, Gurguis-Younger M, Sebaldt R, **Karwalajtys T**, Hall H, O'Rourke K, **Thabane L**, (CHAP-OSS Working Group). Funded by MOH & LTC (public health division, chronic disease prevention & health promotion board). April 2005-March 2006. **\$500,000.00**
20. Issues around medication compliance for persons with cognitive impairment. **Kaasalainen S** (PI), **Dolovich L**, Coker E, **Papaioannou A**, **Agarwal G**, **Holbrook A**, **Lau E**, **Cosby J**, **Emili A**, **Levine M**, Ploeg J. Funded by the Drummond Foundation. February 2006-January 2007. **\$22,095.50**
21. Applied Bayesian Statistics in Health Research. **Thabane L** (PI). Funded by NSERC April 2005-April 2010. **\$40,000**
22. Community Cardiovascular Health Awareness Program (C-CHAP). **Kaczorowski J** (Co-PI), Chambers L (Co-PI), **Dolovich L**, McDonough B, Gurguis-Younger M, Sebaldt R, **Karwalajtys T**, Hall H, O'Rourke K, **Thabane L**, (on behalf of CHAP working group). Canadian Stroke Network. April 2006-March 2008. **\$1 million**
23. Validation and Implementation of Individualized Benefit:Harm Profiles for Optimal Warfarin Prescribing. **Holbrook AM** (Co-PI), **Pereira JA** (Co-PI), **Thabane L**, Van Walraven C. The Heart and Stroke Foundation of Canada. July 2006-July 2008. **\$16,000**
24. Multifaceted Intervention to Improve Prescribing of Medication Requiring Dose Adjustments in Patients with Chronic Kidney Disease. **Bayoumi I** (Co-PI), **McCarthy L** (Co-PI), Chan D, **Dolovich L**, **Kaczorowski J**, **Papaioannou A**. Janus Foundation. September 2006-September 2007. **\$4959.70**
25. The Implementation and Evaluation of an Evidence-based, Interdisciplinary Pain Protocol in Long-Term Care. **Kaasalainen S & Brazil K** (Co-PIs); Burns T, Coker E, **Dolovich L**, **Papaioannou A**, Hadjistavropoulos T, DiCenso A, Ploeg J, **Emili A**, Donald F, Aktar-Danesh N. CIHR - Partnerships for Health Systems Improvement. September 2006-September 2009. **\$199,995**
26. Evaluation of Clinical Practices and Patient Behaviours in Type 2 Diabetes. **Levine M** (PI), **Dolovich L**, **Holbrook A**, **Brazil K**. Green Shield Canada. October 2006-March 2007. **\$96,611**
27. Development and evaluation of educational materials for self-management of hypertension: A randomized controlled trial. **Karwalajtys T**, **Kaczorowski J** (Co-PIs). Canadian Hypertension Education Program (CHEP). Sept 2006-Sept 2007. **\$25,000**

TIPPS-Relevant

1. Actively Building Capacity in Long Term Care. Collaboration between Department of Family Medicine, School of Nursing, McMaster University (ABCs in LTCs). Levitt C (PI), **Kaczorowski J**, Chambers L, Taniguchi A, Shankardass K, Morden P, Dicenso A, **A Papaioannou and L Dolovich** are steering committee members. Funded by Ontario MOH & LTC. October 2002-September 2003. **\$340,000**
2. Guideline Acceptance by Physicians (GAP). **Levine M** (PI), **Butler C**, Lohfeld L, **Cosby J**. Funded by CIHR. April 2002-December 2003. **\$187,429**

3. Multicentre, double-blind randomized placebo-controlled study of 70mg Alendronate once weekly for the prevention and treatment of osteoporosis in Canadian adult Cystic Fibrosis patients (CFOS). **Papaioannou A** (PI), Adachi JD, Freitag A, Ioannidis G, Goldsmith C, Ste Marie L, Berthiaume Y, Brown N, Webber C, Rabin H. Funded by Merck Frosst Canada. September 2002-September 2006. **\$167,648**
4. COMPETE III. **Holbrook A** (PI), Gerstein H, Chan D, Bernstein B, Lee H, Hunt D, **Dolovich L**, Wu R, Montori V, Keshavjee K, **Thabane L**. Funded by PHCTF. January 2004-August 2006. **\$2.8 million**
5. Preventive Primary Care Outreach for High risk Older Persons (Prevent study). Ploeg J (PI), **Kaczorowski J**, Brazil K, Hutchison B, Dalby D, Goldsmith C, Furlong W. Funded by PHCTF (MOH & LTC). January 2004-July 2006. **\$776,100.00**
6. A Prospective Evaluation of a Novel Primary Care Heart Failure Management Program. Demers C (PI), **Kaczorowski J**, McKelvie R, Teo KT, Arthur H, O'Brien B, Everson J, Yusuf S. Funded by Heart & Stroke Foundation of Ontario. July 2003-July 2006. **\$173,880.00**
7. A qualitative enquiry into patients and physicians' knowledge of diagnosis and management of COPD to inform the development of future management plans. Owen D (PI), **Butler C**. Funded by Scientific Foundation Board of RCGP. Feb 2004-Feb 2007. **£6000**
8. VIP: The Vascular Intervention Program (G03-03031). Lee H (PI), **Dolovich L**, Crookston D, **Holbrook A**, Ciliiska D, Aktar-Danesh N, Hutchinson B, Fera M. PHCTF (MOH & LTC). March 2004-September 2006. **\$744,500**
9. FORCE: Falls Fracture & Osteoporosis Risk Control & Evaluation. Lee H (PI), **Dolovich L**, Straus S, Majumdar S, Bragaglia P, Goeree R, **Papaioannou A**. Funded by Aventis, Merck, Lilly, Greenshield, GHC (in-kind), other agencies (in-kind). February 2003-December 2005. Total **\$320,000**
10. A randomized double blind placebo controlled trial comparing MSM to Naproxen for the treatment of patients with osteoarthritis of the knee. Boulos P (PI), **Papaioannou A**, McCullough N, Goldsmith C, MacLeod S. Funded by Carolwood Corporation Canada. September 2003-April 2006. **\$33,096.65**
11. Towards early detection and minimizing complications of celiac disease: A case control study. **Butler C** (PI), Owen D. Funded by Royal College of General Practitioners Scientific Foundation Board. November 2003-April 2006. **£14,717**
12. Determination of Patient Characteristics Associated with Statin Use. **Levine M** (PI), Gaebel K, LeLorier J, Perrault S, Sketris I. Funded by AstraZeneca Canada. April 2004-March 2006. **\$384,215**
13. CLSA: Developmental Activities Phase I. Wolfson C (Co-PI), Kirkland S (Co-PI), Raina P (Co-PI), **Dolovich L** plus others. Funded by CIHR. April 2004-December 2005. **\$1,744,000**
14. RCT of point of care C-reactive protein test and enhanced communication skills for managing acute cough due to lower respiratory tract infection in general practice: cost effectiveness and effect on diagnostic testing, antibiotic prescribing and recovery. Geert Jan Dinant (PI), **Butler C** (project manager), Severns H, Wessling G, Stobberingh E, Schouten J, Little P, Lindbaek M, Hood K, Hopstaken R, Rollnick S. Funded by ZonMw (Netherlands). April 2004-April 2007. **232,500 EUR**
15. Enhancing provision of palliative care by family physicians: A demonstration project integrating primary care and interdisciplinary specialist palliative care. Marshall D (Co-PI), Howell D (Co-PI), **Kaczorowski J**, Taniguchi A, **Howard M**, **Brazil K**. Funded by PHCTF (MOH). July 2004-July 2006. **\$874,060**
16. A multi-strategy intervention to increase the delivery of preventive care services in primary care networks and family health networks in Ontario: A demonstration project (P-PROMPT). **Kaczorowski J** (Co-PI), Sebaldt R (Co-PI), Goeree R, Burgess K, Lohfeld L, Donald F. Funded by PHCTF (MOH). July 2004-July 2006. **\$2,989,300**
17. A qualitative study of GPs knowledge and attitudes towards treatment provision for incontinence. Shaw C (PI), **Butler C**, Wood F, Williams K. Funded by Boeringer. Sept 2004-April 2006. **£36,849**

18. Fragility Fracture: The patient's perspective of osteoporosis management and information needs. Giangregorio L (PI), **Papaioannou A, Dolovich L**, Adachi JD, Cranney A. Funded by The Drummond Foundation. January 2005-September 2006. **\$39,909**
19. Diabetes IN-CHARGE Trial. Gerstein H (PI), Haynes B, Hunt D, Capes S, **Agarwal G, Holbrook A**. Funded by CIHR. October 2004-March 2007. **\$375,421**
20. A Primary Care Research Capacity - Building Workshop. Harvey B (PI), **Kaczorowski J**, Grzybowski S, Drummond N, Dawes M, Burge F. Funded by CIHR September 2004-December 2005. **\$30,000**
21. An evaluation of dosage-adjustment interventions on patient outcomes for adverse drug interventions. Park-Wyllie L (PI), **Levine M, Holbrook A, Thebane L**, Bayoumi A. Funded by Ontario HIV Treatment Network. April 2004-March 2006. **\$57,150**
22. Airdrie Cardiovascular Health Awareness and Management Program (A-CHAMP). Jones C, Simpson S (Co-PIs), Then D, Campbell N, Lewanczuk R, Galvin D, Chambers L, **Kaczorowski J, Dolovich L**, Sebaldt R, **Karwalajtys T**, Hall H. Funded by Canadian Stroke Network. April 2005-March 2006. **\$256,000**
23. DEcision rule for severe Symptoms and Complications of Acute Red Throat in Everyday practice (DESCARTE). Little P (PI), **Butler C**, Campbell JL, Delany B, Hay AD, Hobbs R, Mant D, Moore M, Mullee MA, Williamson I. Funded by MRC. Jan 2006-July 2008. **£722,000**
24. Stemming the Tide of Antibiotic Resistance: A Trial of a Complex Intervention Addressing the 'why' and 'how' of Appropriate Antibiotic Prescribing in General Practices (the STAR Educational Program). **Butler C** (PI), Cohen D, Dunstan F, Evans M, Hayes J, Hood K, Howard T, Moore L, Palmer S, Rollnick S, Simpson S, **Cosby J**. Funded by MRC. November 2005-April 2009. **£360 000**
25. Care of Type 2 Diabetes in 4 Cities in India: A Qualitative Study of Health Professionals. Hirji R (PI), **Agarwal G**, Lohfeld L. Unfunded. Jan 2006-Dec 2006.
26. Patients as Knowledge Brokers: Investigating the Role of Patients in Informational Continuity of Care. **Agarwal G** (Co-PI), Crooks V (Co-PI). Funded by ICE grant with HTCP. January 2006-December 2006. **\$8000**
27. Towards an Improvement in Gerontological Content in an Undergraduate Nursing Curriculum: What are the Priority Content Areas? **Kaasalainen S** (PI), Baxter P, Schindel M, Prentice D, Rivers S, D'Hondt A, Montemuro M, Hammers J, Ploeg J. Funded by Gerontological Nurses Association. April 2005-March 2006. **\$500**
28. Defining the Role of the Nurse Practitioner in Long Term Care around Pain Management. **Kaasalainen S** (PI), DiCenso A, Donald F, Staples E. Unfunded. April 2005-April 2006.
29. The Process of Providing Palliative Care to LTC Residents with Dementia. **Kaasalainen S** (PI), **Brazil K**, Ploeg J, Schindel-Martin L. Unfunded. April 2005-April 2006.
30. Automated Office Blood Pressure Measurement (Cambo). Myers M (PI), Tobe SW, **Kaczorowski J**, Dawes M, Godwin MS, Kiss AJ. Funded by The Heart & Stroke Foundation of Ontario. 2005-2007. **\$1,507,534**
31. Prevention of Diabetes in Schizophrenia. Voruganti P (PI), Strong S, Gerstein H, Lysiak-Globe T, **Thabane L**. Funded by Ontario Mental Health Foundation. April 2005- March 2007. **\$118,698**
32. The PRE-EMPT STUDY: Preventing Disease through Opportunistic, Rapid EngagEMent by Primary care Teams using Behaviour Change Counseling. **Butler C** (PI), Cohen D, Edwards A, Hood K, Lane C, McCambridge J, Moore L, Rollinick S, Simpson S, Strang J, Wood F, **Cosby J**. Funded by MRC. March 2006-March 2008. **£510,000**
33. Improving the Evaluation of Complex Health Technologies: Focus on Methodology. **Holbrook A (PI), Dolovich L, Thabane L, Kaczorowski J**, Goeree R. Funded by Canadian Coordinating Office for Health Technology Assessment (CCOHTA). April 2006-April 2007. **\$98,801**

34. An evaluation of a community pharmacist led patient centred program to improve cardiovascular health: a pilot study of the Passport to Health program. **Dolovich L**, Tytus R, Krawchenko I, Kates N, Gagnon A, McAiney C. Funded by the Hamilton Family Health Team. December 2006-December 2007. **\$50,000**
35. Managing Palliative Care for Advanced Stage Heart Failure Patients. **Kaasalainen S** (Co-PI), Caldwell P (Co-PI), **Brazil K**, Marshall D, Noble J, Willison K, Taniguchi A, Demers C. Funded by the Hamilton Community Foundation. August 2006-August 2007. **\$19,520**
36. Osteoporosis Strategy: The Fractures and Falls Prevention Program in Long-Term Care. **Papaioannou A** (PI), Giangregorio L, Sawka A, Crilly R. Funded by the Ontario Ministry of Health and Long-Term Care. January 2007-February 2009. **\$67,448**
37. A randomized controlled comparison of Vitamin D strategies in acute hip fracture patients. **Papaioannou A** (PI), Kennedy C, Ioannidis G, Adachi JD, Hanley D, Giangregorio L. Funded by Merck Frosst Canada Ltd. 2006-2008. **\$32,192**
38. Quality in Family Practice: Phase 3 – Field Testing of the Voluntary Assessment Program in Family Health Teams. Price D (PI), Hiltz L, **Dolovich L**, Barbara A, **Howard M**. Funded by the Ontario Ministry of Health and Long Term Care. 2007-2008. **\$500,000**
39. COMPETE III Extension: Integration, Implementation and Innovation for Better Vascular Outcomes. **Holbrook A (PI), Dolovich L**, Lee H, Bernstein R, Chan D, Gerstein H, Hunt D, Keshavjee K, **Thabane L**, Wu R, Montori V. Funded by the Ontario Ministry of Health and Long Term Care - Primary Health Care Transition Fund. August 2006–March 2007. **\$297,483**

Systematic Reviews

1. Delivery of therapeutic information to patients. A systematic overview. **Dolovich L (PI), Nair K, Burns S, on behalf of the TIPPS group**. Unfunded. July 2002-March 2003.
2. Patient Priorities in Diabetes. A systematic overview. **Holbrook A (PI), Nair K, Dolovich L**. Unfunded. February 2003-November 2003. (*Update May 2006-Feb 2007)
3. Reasons for medication non-adherence in the elderly from the patient's perspective: A systematic overview. **Lau E & Dolovich L**. Unfunded. February 2003-August 2004.
4. The types of drug-related problems identified and resolved by pharmacists providing pharmaceutical care to seniors: A systematic overview. **Lau E & Dolovich L**. Unfunded. October 2002-October 2003.
5. Insulin use in the elderly. A systematic overview. **Agarwal G (PI), Dolovich L, Lizotte M**. Unfunded. May 2003-Sept 2003
6. Thiazolidinediones in combination with hypoglycaemic agents in patient with type 2 diabetes mellitus: A meta-analysis. **Jurcic J (PI), Schünemann HJ, Montori V, Burns S, Dolovich L**. Unfunded. January 2004-August 2004.
7. Interventions to optimize medication use in long-term care. A systematic review. **Nair K (PI), Burns S, Papaioannou A, Kaasalainen S, Dolovich L**. Unfunded. February 2005-April 2005.
8. The effectiveness of interventions designed to reduce meperidone use in hospital - literature review. Groenesteghe J (PI) (**S. Burns** collaborator, **L. Dolovich** supervisor). Unfunded. Feb 2006-June 2006.
9. Insulin use in the elderly. A systematic overview (Update). **Agarwal G (PI), Ahmed S**. Unfunded. May 2005-March 2006.
10. The lack of individualization of harms and benefits reporting of randomized controlled trials. A systematic review. **Pereira J (PI), Holbrook A, Perera G**. Unfunded. July 2005-March 2006.

Publications

TIPPS investigators and trainees actively disseminated program and research project findings to stakeholders, clinicians, patients and researchers. TIPPS research was disseminated as 178 academic posters or presentations at national and international academic conferences, meetings, and forums. TIPPS research was also represented in 78 publications (including abstracts) in relevant academic journals.

TIPPS Peer Reviewed Publications

1. **McCarthy L, Dolovich L, Haq M, Thabane L, Kaczorowski J.** Prevalence of situations that potentially increase the harm from medications in older adults receiving primary care. *Canadian Journal of Clinical Pharmacology* 2007;Fall:e283-e290.
2. **Pereira J, Jurcic J, Kavanaugh D.** Critical appraisal: Is St. John's wort as effective as paroxetine for the treatment of depression? *Canadian Family Physician* 2007 Sept;53(9):1511-3.
3. **Kaasalainen S, DiCenso, A, Donald, F, Staples, E.** Optimizing the role of the nurse practitioner around pain management in long-term care. *CJNR* 2007;39(2):14-31.
4. **Kaasalainen S, Coker E, Dolovich L, Papaioannou A, Hadjistavropoulos T, Emili A, Ploeg J.** Pain management decision-making among long-term care physicians and nurses. *West J Nursing Research* 2007; 29(5), 561-580.
5. **Dolovich L, Nair K, Burns S.** Information for patients about the benefits and harms of medications. (Chapter 10) In MacKinnon N (editor). *Safety and effectiveness of the medication use system*. 1st edition. Ottawa, ON. Canadian Pharmacists Association 2007; 233-250.
6. **Emili A, Abushomar H, Nair K.** Can metformin and an intensive lifestyle intervention impact the incidence and resolution of the metabolic syndrome? *Canadian Family Physician* 2007 July;53(7):1203-5.
7. **Lau E, Dolovich L, Austin Z.** Comparison of self, physician, and simulated patient ratings of pharmacist performance in a primary care family practice simulator. *Journal of Interprofessional Care*. March 2007;21(2):129-140.
8. Swanson GJ, **Kaczorowski J, Agarwal G, Wilson A, Dorcas M.** The Incidence and Disposition of Diabetic Emergencies by Paramedic Services in Halton, Ontario. *Canadian Journal of Diabetes*. 2007;31(1):62-66.
9. **Papaioannou A, Kennedy CC, Dolovich L, Lau E, Adachi JD.** Patient Adherence with Osteoporosis Medications: Problems, Consequences and Management Strategies. *Drugs Aging*. 2007;24(1):37-55.
10. **Lau E, Kaczorowski J, Karwalajtys T, Dolovich L, Levine M, Chambers L.** Blood Pressure Awareness and Self-Monitoring Practices Among Primary Care Elderly Patients Attending a Pharmacy-based Cardiovascular Awareness Program. *Canadian Pharmacists Journal*. 2006;139(6):35-41.
11. **Butler CC, Hood K, Vidal-Alaball J, Cannings JR, McCaddon A, Hood K, Papaioannou A, McDowell I, Goringe A.** Oral vitamin B12 versus intramuscular vitamin B12 for vitamin B12 deficiency: A systematic review of randomized controlled trials. *Fam Pract*. 2006; 23(3):279-285.
12. **Howard M, Burns S, Chu J.** Prevention of fractures with calcium and vitamin D supplementation: A critical appraisal. *CFP/MFC*. May 2006; 52:597-599.
13. Ahmed S, **Karwalajtys T, Lau E.** Preventing recurrent ulcer bleeding in patients with a history of GI bleeding on aspirin: Switch to clopidogrel or add esomeprazole? A critical appraisal. *CFP/MFC*. April 2006; 52:455-457.
14. Giangregorio LM, **Papaioannou A, Cranney A, Zytaruk N, Adachi JD.** Fragility Fractures and the Osteoporosis Care Gap: an international phenomenon. *Semin Arthritis Rheum*. 2006;35(5):293-305.
15. Anderson K, Sebaldt R, Lohfeld L, Burgess K, Faith D, **Kaczorowski J.** Views of Family Physicians in Southwestern Ontario on Preventive Care Services and Performance Incentives. *Family Practice*, 2006: 469-471.
16. **Holbrook A, Bernstein B, Chan D, Curnew G, Demers C, Dolovich L, Gerstein H, Hunt D, Keshavjee K, Thabane L.** COMPETE III: Integration, Implementation, Innovation for Better Vascular Outcomes, PHCTF Summit, August 24, 2006.
17. **Kaasalainen S, Baxter P, Schindel-Martin L, Prentice D, Rivers S, D'Hondt A, Montemuro M, Hammers J, Ploeg J.** Are new RN graduates prepared for gerontological nursing practice? Current perceptions and future directions. *Perspectives*. Summer 2006.
18. Keshavjee J, **Holbrook A, Lau E, Esporlas-Jewer I, Troyan S.** Clinical Decision Support for Vascular Disease in Community Family Practice. *AMIA Symposium Proceedings* 2006:1191.
19. Pora VV, Farrell B, **Dolovich L, Kaczorowski J, Chambers LW.** Promoting cardiovascular health among older adults: A pilot study with community pharmacists. *Can Pharm J*. 2005; 138(7):50-55.

20. Austin Z, **Dolovich L, Lau E**, Tabak D, Sellors C, Marini A, Kennie N. Teaching and assessing primary care skills: The family practice simulator model. *Am J Pharm Ed.* 2005; 69:500-507.
21. Chambers LW, **Kaczorowski J, Dolovich L, Karwalajtys T**, Hall HL, McDonough B, Hogg W, Farrell B, Hendriks A, Levitt C. A community-based program for cardiovascular health awareness. *Can J Pub Health.* 2005; 96(4):294-298.
22. Sawka AM, Huh A, **Dolovich L, Papaioannou A**, Eva K, **Thabane L**, Gafni A, Cullimore A, Macdougall M, Steiner M, Adachi JD. In response. *J Obstet Gynaecol Can* 2005 Apr;27(4):322.
23. **Karwalajtys T, Kaczorowski J**, Chambers LW, Levitt C, **Dolovich L**, McDonough B, Patterson C, Williams JE. A randomized trial of mail vs. telephone invitation to a community-based cardiovascular health awareness program for older family practice patients. *BMC Family Practice.* 2005; 6:35
<http://www.biomedcentral.com/1471-2296/6/35/abstract>.
24. **Lau E, Dolovich L.** Drug-related problems in elderly general practice patients receiving pharmaceutical care. *Int J Pharm Pract.* 2005; 13(3):165-78.
25. Vidal-Alaball J, **Butler CC**, Hood K, Cannings R, McCaddon A, **Papaioannou A.** Oral vitamin B12 versus intramuscular vitamin B12 for vitamin B12 deficiency. *Cochrane Database Syst Rev.* 2005; (3):CD004655.
26. Sawka AM, Huh A, Adachi JD, **Papaioannou A, Dolovich L**, Eva K, **Thabane L**, Gafni A, Cullimore A, Macdougall M, Steiner M. Attitudes of Women who Are currently using of Recently stopped Estrogen replacement therapy with or without progestins: Results of the AWARE survey. *J Obstet & Gynaecol Can.* 2004; 26(11):967-73.

TIPPS Peer Reviewed Journal Abstracts

1. **Kaczorowski J**, Chambers LW, **Karwalajtys T, Dolovich L**, Farrell B, McDonough B, Sebaldt RJ, Levitt C, Hogg W, **Thabane L**, Tu K, Goree R. Design of a community-randomized trial of the Cardiovascular Health Awareness Program (CHAP). *Canadian Journal of Cardiology*, 2006; 22(D):58d.
2. **Karwalajtys T**, McDonough B, Hall H, Guirguis-Younger M, Chambers LW, **Kaczorowski J.** Development of the Peer Health Educator role in a community cardiovascular health awareness program (CHAP). *Canadian Journal of Cardiology*, 2006; 22(D):73d.
3. **Lau E, Papaioannou A, Dolovich L**, Raina P, **Burns S, Nair K, Emili A**, Kennedy C. Exploring elderly patients' perceptions about strategies to improve adherence to medications: A qualitative study. *Canadian Pharmacists Journal.* 2006;139(5).
4. **Jurcic-Vrataric J, Dolovich L, Thabane L**, Gerstein H, McInnes M. The effect of an educational intervention on patients' preferences and perceptions about insulin therapy. *Canadian Journal of Diabetes.* 2006;30(3):294.
5. **Jurcic-Vrataric J**, Neibert M, **Dolovich L.** Teaching patients with Type 2 diabetes about insulin: The diabetes educator perspective. *Canadian Journal of Diabetes.* 2006;30(3):294.
6. **Agarwal G, Nair K, Cosby J, Dolovich L, Butler C, Levine M, Kaczorowski J.** Exploring family physicians' attitudes and beliefs towards insulin therapy in elderly patients with type 2 diabetes: A qualitative study. *Canadian Journal of Diabetes* 2006;30(3):307.
7. **Agarwal G, Kaczorowski J.** Community Health Awareness of Diabetes (CHAD): Feasibility and acceptability of a program to improve diabetes risk assessment using pharmacy-based, volunteer-run sessions. *Exp Clin Cardiol.* 2006; 11(1):54.
8. **Agarwal G, Nair K, Cosby J, Dolovich L, Butler C, Levine M, Kaczorowski J.** Exploring family physicians' attitudes and beliefs towards insulin therapy in elderly patients with type 2 diabetes: A qualitative study. *CJCP.* 2006; 13(1):e158.
9. **Pereira JA, Holbrook AM**, Perera G. The lack of individualization of harms and benefits reporting of randomized controlled trials. *CJCP.* 2006; 13(1):e182.
10. **Dolovich L**, Ahmed S, Gaebel K, Haq M, **Kaczorowski J, Howard M, Sellors C, Lau E.** High levels of satisfaction reported by patients receiving services provided by pharmacists integrated into family practice. *CJCP.* 2006; 13(1):e213.
11. Kennie N, **Dolovich L.** Reliability testing of an adapted case leveling framework for assigning level of difficulty of the pharmacist's task in conducting initial patient medication assessments in the IMPACT study. *CJCP.* 2006; 13(1):e214.
12. **McCarthy L, Dolovich L**, Haq M, **Thabane L, Kaczorowski J.** Self reported risk for drug related problems in ambulatory elderly patients referred for family practice pharmacist assessment. *CJCP.* 2006; 13(1):e214.
13. **Kaasalainen S**, Coker E, **Dolovich L, Papaioannou A**, Hadjistavropoulos T, **Emili A.** Pain management decision-making among long-term care physicians and nurses. *CJCP.* 2006; 13(1):e216.
14. Farrell B, Woodend K, Pottie K, Yao V, **Dolovich L**, Kennie N, **Sellors C.** Health professionals' perceptions of pharmacist and family physician's contributions to medication-related processes: Changes over time as pharmacists are integrated into family practice. *CJCP.* 2006; 13(1):e217.

15. Farrell B, Woodend K, Pottie K, Yao V, **Dolovich L**, Kennie N, **Sellors C**. Collaborative working relationships between family physicians and pharmacists: Changes over time as pharmacists are integrated into family practice. *CJCP*. 2006; 13(1):e217.
16. **Emili A, Kaczorowski J, Burns S**, Chan D, **Dolovich L, Papaioannou A**. Prevalence and management of depression in the community dwelling elderly: Mail-out survey combined with a medical chart review. *CJCP*. 2006; 13(1):e170.
17. **Lau E, Papaioannou A, Dolovich L, Nair K**, Kennedy C, **Emili A, Burns S**, Pathak A. Exploring elderly patients' perceptions about strategies to improve adherence to medications: A qualitative study. *CJCP*. 2006; 13(1):e154.
18. **Qureshi A, Papaioannou A**, Kennedy C, Campbell G, **Dolovich L**, Amit G, **Levine M, Holbrook A**, Ray J. Improving prescribing practices for older adults with renal impairment living in long term care facilities. *CJCP*. 2006; 13(1):e135.
19. Jones C, Simpson SH, Mitchell D, **Kaczorowski J**, Campbell N, Sebaldt R, **Dolovich L**, Chambers LW for the A-CHAMP Investigators and Pharmacists. Airdrie Cardiovascular Health Awareness and Management Program (A-CHAMP). *Canadian Journal of Cardiology*, 2006; 22(D):48d.
20. Giangregorio LM, **Papaioannou A**, deBeer J, **Dolovich L**, Cranney A, **Thabane L**, Nixon M, Adachi JD. Do patients with fragility fractures perceive themselves to be at risk of future fracture? *Osteoporosis Int*. 2006; (Suppl 2):17:P210. S56.
21. Nixon M, Giangregorio L, Cranney A, deBeer J, **Dolovich L, Papaioannou A, Thabane L**, Adachi JD. Osteoporosis information needs and preferences in fragility fracture patients. *Osteoporosis Int*. 2006; (Suppl 2):17:P211. S57.
22. **Lau E, Dolovich L**, Goeree R. Economic evaluation of a primary care-based medication management program to reduce the risk of osteoporosis-related fractures. *CJCP*. 2006; 13(1):e154.
23. Farahani P, Gaebel K, LeLorier J, Gillis J, Soon JA, **Levine M**. A comparison study among Canadian provinces for prescription patterns of lipid-lowering therapeutics. *CJCP*. 2006; 13(1):e138.
24. Abushomar H, Eguale T, **Holbrook A**, Tamblyn R. The accuracy of using computerized medical records in detecting adverse drug events: a meta-analysis. *CJCP* 2006;13(2):e192.
25. **Nair K, Holbrook A, Jiang H**, Xu S, **Dolovich L, Thabane L**. Patient priorities in diabetes: A novel but difficult concept. *Can J Diabetes*. 2005; 9(3):274. Abstract.
26. **Dolovich L, Paterson M, Kaczorowski J**, Uppaluri A, **Howard M**, Gaebel K, **Lau E, Jurcic J**, Rodriguez C, Pottie K, for the IMPACT team. Extent to which primary care patients underuse effective drug therapies or are at risk for potential drug-related problems. *CPJ/RPC*. 2005; 138(6):35. Abstract.
27. **Dolovich L, Sellors C**, Woodward C, Farrell B, **Kaczorowski J**, Gaebel K, Pottie K, for the IMPACT investigators. Evaluation model for the IMPACT project. *CPJ/RPC*. 2005; 138(6):34. Abstract.
28. Farrell B, Pottie K, Woodend K, Haydt S, Kennie N, **Dolovich L**, Martin C, **Sellors C**, on behalf of the IMPACT investigators. Development of the family medicine medication use processes matrix. *CPJ/RPC*. 2005; 138(6):37. Abstract.
29. **Jurcic J, Burns S**, Schunemann HJ, Montori VM, **Dolovich L**. The effect of pioglitazone and rosiglitazone in combination with hypoglycemic agents on glycemic control in patients with type 2 diabetes. *CPJ/RPC*. 2006; 139(2):52. Abstract.
30. **Lau E, Dolovich L, Kaczorowski J, Karwalajtys T, Levine M**. Determining the prevalence and predictors of blood pressure self-management in community-dwelling seniors. *CJCP*. 2005; 12(1):e71. Abstract.
31. **Lau E, Papaioannou A, Dolovich L**, Adachi J, Sawka A, **Nair K, Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. *CJCP*. 2005; 12(1):e71. Abstract.
32. **Karwalajtys T, Kaczorowski J**, Chambers L, Hall H, McDonough B, **Dolovich L**, Sebaldt R, on behalf of the CHAP working group. Community-wide implementation of a blood pressure monitoring program with feedback to family physicians. *CJCP*. 2005; 12(1):e60. Abstract.
33. **Kaczorowski J**, Chambers LW, **Dolovich L**, Levitt C, Hogg W, **Karwalajtys T**, Hendriks A, on behalf of the CHAT working group. Primary care cardiovascular health promotion program: The **C**ommunity **H**ypertension **A**ssessment **T**rial (CHAT). *CJCP*. 2005; 12(1):e61. Abstract.
34. **Dolovich L, Kaczorowski J**, Uppaluri A, **Howard M**, Gaebel K, **Lau E, Jurcic J**, Pottie K. Chart audit of indicators for underutilization of effective drug therapy and drug related risk in primary care. *CJCP*. 2005; 12(1):e60. Abstract.
35. **Abushomar H**, Gaebel K, **Levine M**. Evaluation of patient access to diabetic medication. *CJCP*. 2005; 12(1):e76. Abstract.
36. **Jurcic J**, Gaebel K, **Levine M**. Is there an association amongst current medication use, clinical lab values and quality of life scores in patients with type 2 diabetes? *CJCP*. 2005; 12(1):e84. Abstract.

37. Gaebel K, **Cosby J, Abushomar H, Levine M**. Physician perceptions and experiences with restrictive policies for patient access to diabetic medications. *CJCP*. 2005; 12(1):e91. Abstract.
38. **Dolovich L, Sellors C**, Woodward C, Farrell B, **Kaczorowski J**, Gaebel K, Pottie K. Evaluation model for the Integrating family Medicine and Pharmacy to Advance primary Care Therapeutics (IMPACT) project. *CJCP*. 2005; 12(1):e113. Abstract.
39. Farrell B, Pottie K, Woodend K, Haydt S, Kennie N, **Dolovich L**, Martin C, **Sellors C**, on behalf of the IMPACT investigators. Development of the family medicine medication use processes matrix. *CJCP*. 2005; 12(1):e109. Abstract.
40. **Dolovich L**, Austin Z, **Lau E**, Tabak D, **Sellors C**, Kennie N, Marini A, **McCarthy L**. Clinical simulation of a family practice to support interprofessional practice. *Pharmacother*. 2005; 25(10):1452. Abstract.
41. Farahani P, Gaebel K, LeLorier J, Perrault S, Gillis J, Soon J, **Levine M**. Who are statin users in the community? (A Canadian Experience). *Pharmacoepidemiol Drug Saf*. 2005; 14:S46. Abstract.
42. Farahani P, Gaebel K, LeLorier J, Perrault S, Gillis J, Soon J, **Levine M**. Assessment of patient characteristics associated with statin use (preliminary report). *Can J Clin Pharmacol*. 2005; 12(1):e56. Abstract.
43. Ploeg J, **Brazil K**, Hutchison B, **Kaczorowski J**, Dalby D, Goldsmith C, Furlong W. Identification and recruitment of frail older persons from family practices to participate in community based intervention studies. *Gerontologist*. 2005; 45(spec iss II):461. Abstract.
44. **Levine M**. Impact of formulary policy on thiazolidinedione (TZD) use in the Ontario Drug Benefit (ODB) program. *Clin Pharmacol Ther*. 2005; 77(2):72. Abstract.
45. **Dolovich L**, Pottie K, Farrell B, **Kaczorowski J, Sellors C**, Gaebel K, Austin Z, for the IMPACT investigators. Integrating family Medicine in Pharmacy to Advance primary Care Therapeutics (IMPACT). *CPJ/RPC*. 2004; 137(5):25. Abstract.
46. **Lau E, Dolovich L, Kaczorowski J, Karwalajtys T, Levine M**. Determining the prevalence and predictors of seniors' blood pressure awareness and monitoring practices. *CJCP*. 2004; 11(1):e136. Abstract.
47. **Dolovich L, Kaczorowski J, Sellors C, Vanditelli C, Howard M, Lau E, Austin Z, Woodward C, Levitt C, Goeree R**. Pharmacist integration within community family physician group practices: A qualitative study. *CJCP*. 2004; 11(1):e133. Abstract.
48. **Jurcic J**, Gaebel K, **Levine MA**. Is there an association among current medication use, clinical lab values, and quality-of-life scores in patients with type 2 diabetes? *CJCP*. 2004; 11(1):e114. Abstract.
49. Chambers LW, **Kaczorowski J**, Levitt C, Hogg W, **Karwalajtys T**, Hendriks A, on behalf of the CHAT working group. The Community Hypertension Assessment Trial (CHAT). *Can J Cardiol*. 2004; 20(D):48d. Abstract.
50. **Jurcic J**, Gaebel K, **Levine MA**. Is there an association among current medication use, clinical lab values, and quality-of-life scores in patients with type 2 diabetes? *CPJ*. 2004; 137(5):31. Abstract.
51. **Dolovich L, Nair K, Burns S**, on behalf of the TIPPS group. Readability of therapeutic information for patients: A systematic overview. *Can J Clin Pharmacol*. 2003; 10(3):133. Abstract.
52. Sawka A, Huh A, **Papaioannou A, Dolovich L**, Eva K, **Thabane L**, Gafni A, Cullimore A, MacDougall M, Steiner M, Adachi JD. Attitudes of Women who Are currently using or Recently stopped Estrogen replacement therapy with or without progestins: The AWARE study. Fourth European Congress on Clinical and Economic Aspects of Osteoporosis and Osteoarthritis. *Osteoporos Int*. 2003; 14(S7):S60. Abstract.
53. **Cosby J, Levine M, Burns S**, Singh S. Physician perceptions of 'too many' medications. *CJCP*. 2003; 10(1):27. Abstract.
54. **Levine M, Cosby JL, Burns S**. Understanding why physicians modify or ignore prescribing guidelines. *Clin Pharmacol Ther*. 2003; 73(2):26. Abstract.
55. **Cosby J, Levine M, Burns S**. Understanding why physicians sometimes modify or ignore prescribing guidelines. *CJCP*. 2003; 10(3):134. Abstract.
56. **Cosby J, Levine M, Burns S**. Physicians motivations for following, modifying or ignoring prescribing guidelines. *Can Psych*. 2003; 44(2a):56. (abstract)

TIPPS - Oral Presentations & Posters

1. Sebaldt R, on behalf of P-PROMPT and C-CHAP groups (includes **Kaczorowski J & Karwalajtys T**). P-PROMPT and C-CHAP: Patient status information interventions in Ontario can increase delivery of evidence-based preventive care services and contribute to better chronic disease management. HIRU Informatics Rounds. Hamilton, ON. March 8, 2007. (oral)
2. Sebaldt R, on behalf of the P-PROMPT group (includes **Kaczorowski J & Karwalajtys T**). P-PROMPT – The sequel: A self-sustaining information-based intervention to systematically increase the delivery of evidence-based preventive care services and chronic disease management in Ontario. CEM Rounds. Hamilton, ON. March 6, 2007. (oral)

3. Shcherbatykh IY, **Holbrook A, Thabane L**, for COMPETE III Investigators. Theories and Methods in Health Informatics Research section. ITCH February 16 -18, 2007, Victoria, BC. (poster)
4. **Arkinson J**. The public perception of physician-pharma interactions: a survey. CEM Student Research Day. Hamilton, ON. February 8, 2007. (oral)
5. **Nair K**. Exploring elderly patients' perceptions about strategies to improve adherence to medications: a qualitative study. CEM Student Research Day. Hamilton, ON. February 8, 2007. (oral)
6. **Li, K**. Minimally clinically important difference in randomized controlled trials of therapies. CEM Student Research Day. Hamilton, ON. February 8, 2007. (oral)
7. **Kaczorowski J**, Sebaldt RJ, Lohfeld L, Donald FC, Burgess K, Goeree R. P-PROMPT: Provider and patient reminders in Ontario using multi-strategy prevention tools demonstration project. Health Research in the City, January 16, 2007, Hamilton, ON. (poster)
8. **Agarwal G, Kaczorowski J**, Gerstein H. A diabetes risk assessment program in Grimsby, Ontario: feasibility and acceptability. Academic Forum, Department of Family Medicine, McMaster University, Hamilton, December 5, 2006. (oral)
9. **Papaioannou A, Lau E, Dolovich L, Nair K, Burns S**, Kennedy C, **Emili A**, Pathak A. Exploring elderly patients' perceptions about strategies to improve adherence to medications: A qualitative study. CE&B Research Day. Hamilton, ON. November 15, 2006. (poster)
10. **Qureshi A**, Marshall D, Howell D, **Kaczorowski J**, Taniguchi A, **Howard M**, Brazil K. Palliative care in the community: An assessment of a year long educational initiative to improve physicians' capacity to care for palliative patients. CE&B Research Day. Hamilton, ON. November 15, 2006. (poster)
11. **Li KK, Holbrook AM**. Minimal clinically important difference in clinical trials of complex interventions – a critical review. CE&B Research Day. November 15, 2006. Hamilton, ON. (poster)
12. **Kaczorowski J**, Chambers LW, **Karwalajtys T, Dolovich L**, Farrell B, McDonough B, Sebaldt RJ, Levitt C, Hogg W, **Thabane L**, Tu K, Goree R. Design of a community-randomized trial of the Cardiovascular Health Awareness Program (CHAP). Family Medicine Forum 2006 (Research day), November 1, 2006, Quebec City, PQ. (oral)
13. **Kaczorowski J**, Sebaldt RJ, Lohfeld L, Donald FC, Burgess K, Goeree R. P-PROMPT: Provider and patient reminders in Ontario using multi-strategy prevention tools demonstration project. Family Medicine Forum 2006 (Research Day), November 1, 2006, Quebec City, PQ. (oral)
14. **Kaczorowski J**, Sebaldt R, Lohfeld L, Donald F, Burgess K, Goeree R. P-PROMPT: Provider and Patient Reminders in Ontario using Multi-strategy Prevention Tools demonstration project. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
15. Anderson K, **Kaczorowski J, Karwalajtys T**, Lohfeld L, Sebaldt R, Donald F, Burgess K, Goeree R. Patient perspectives on reminder letters for influenza vaccinations in an older primary care patient population. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
16. **Karwalajtys T**, Anderson K, Roder S, Laryea S, Lohfeld L, Goeree R, Donald F, Burgess K, Sebaldt R, **Kaczorowski J**. Are reminder letters useful to primary care patients due or overdue for Pap test screening. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
17. Roder S, Anderson K, Laryea S, Lohfeld L, Goeree R, Donald F, Burgess K, Sebaldt R, **Kaczorowski K, Karwalajtys T**. Women's perspectives on the acceptability of reminder letters for screening mammography. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
18. **Papaioannou A, Lau E, Dolovich L, Nair K**, Kennedy C, **Emili A, Burns S**, Pathak A. Exploring elderly patients' perceptions about strategies to improve adherence to medications: A qualitative study. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
19. **Dolovich L**, Ahmed S, Gaebel K, Haq M, **Kaczorowski J, Howard M, Sellors C, Lau E**. High levels of satisfaction reported by patients receiving services provided by pharmacists integrated into family medicine. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
20. Farrell B, Woodend K, Pottie K, Yao V, **Dolovich L**, Kennie N, **Sellors C**. Collaborative working relationships between family physicians and pharmacists: Changes over time as pharmacists integrated into family medicine. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
21. McDonough B, Hall H, Guirguis-Younger M, Chambers L, **Kaczorowski J, Karwalajtys T**. Development of the peer health educator role in a Community Cardiovascular Health Awareness Program. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)
22. Chambers L, **Kaczorowski J, Karwalajtys T, Dolovich L**, Farrell B, McDonough B, Sebaldt R, Levitt C, Hogg W, **Thabane L**. Design of a community-randomized trial of the Cardiovascular Health Awareness Program (CHAP). North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (poster)

23. **Agarwal G.** Community Health Awareness of Diabetes (CHAD): Feasibility and acceptability of a program to improve diabetes risk: Assessment using pharmacy-based, volunteer-run sessions. North American Primary Care Research Group – Annual Meeting. Tucson, AZ. Oct 15-18, 2006. (oral)
24. Pottie K, Farrell B, **Dolovich L.** Examining the process of integrating pharmacists into family practices: Results from the IMPACT study. 2006 CHSRF Primary Healthcare Network Symposium. Vancouver, BC, September 17-19, 2006. (oral)
25. Giangregorio LM, **Papaioannou A,** Adachi JD, Cranney A, **Dolovich L, Thabane L,** deBeer J, Adilli A, Nixon M. It Could Happen to Me: Perceptions of Future Fracture Risk in Individuals with a History of Fragility Fracture. 28th ASBMR Annual Meeting. Philadelphia, USA, September 15-19, 2006. M 308. (poster)
26. **Karwalajtys T,** McDonough B, Hall H, Guirguis-Younger M. Development of the peer health educator role in a community cardiovascular health awareness programme. Mixed Methods Conference. July 10-11, 2006. Cambridge, UK. (oral)
27. **Qureshi A,** Howell D, Marshall D, **Brazil K.** Mixed methods evaluation of an enhanced palliative care team demonstration project integrated into primary care practice clinics. Mixed Methods Conference. July 10-11, 2006. Cambridge, UK. (oral)
28. **Nair K, Cosby J, Kaasalainen S, Burns S.** Understanding medication management from the patient and clinician perspective. Hamilton and Region Qualitative Health Research Conference. June 26, 2006. Hamilton, ON. (oral)
29. **Qureshi, A, Papaioannou A,** Kennedy C, Campbell GA, **Dolovich L,** Amit G, **Levine M, Holbrook A,** Ray J. Developing and incorporating a medication alert system to improve prescribing practices for older adults with renal impairment living in long term care facilities. Geriatric Medicine-Tri-City Research Day. London, Ontario. June 21, 2006. (oral)
30. **Dolovich L, McCarthy L,** Haq M, **Thabane L, Kaczorowski J.** Understanding how patients choose and use medications. Health Services and Policy Theme Collaborations for Health Research Day, Hamilton, Ontario, June 12, 2006. (poster)
31. **Dolovich L,** Pottie K, Farrell B, **Kaczorowski J** on behalf of the IMPACT team. Integrating Family Medicine and Pharmacy to Advance Primary Care Therapeutics (IMPACT). Health Services and Policy Theme Collaborations for Health Research Day, Hamilton, Ontario, June 12, 2006. (poster)
32. **Papaioannou A,** Kennedy CC, Campbell G, Garg AX, **Dolovich L,** Adachi JD. Bisphosphonate use in elderly nursing home residents. International Osteoporosis Foundation World Congress. June 2-6, 2006. Toronto, ON. (oral)
33. **Jurcic-Vrataric J, Dolovich L, Thabane L,** Gerstein HC, McInnes M. The effect of educational intervention on patients' preferences and perceptions about insulin therapy. CPhA 94th Annual National Conference. Edmonton, Alberta, June 3-6, 2006. (poster)
34. **Lau E, Dolovich L,** Austin Z. Comparison of self, physician, and simulated patient ratings of pharmacist performance in a family practice simulator. CPhA 94th Annual National Conference. Edmonton, Alberta, June 3-6, 2006. (poster)
35. Farrell B, Woodend K, Pottie K, Yao V, **Dolovich L,** Kennie N, **Sellors C.** Collaborative working relationships between family physicians and pharmacists: change over time as pharmacists integrated into family practice. CPhA 94th Annual National Conference. Edmonton, Alberta, June 3-6, 2006. (poster)
36. Farrell B, Pottie K, Haydt S, **Dolovich L,** Kennie N, **Sellors C.** Integrating a pharmacist into family practice: qualitative results from the Integrating Family Medicine and Pharmacy to Advance Primary Care Therapeutics (IMPACT) Study. CPhA 94th Annual National Conference. Edmonton, Alberta, June 3-6, 2006. (poster)
37. Farrell B, Woodend K, Pottie K, Yao V, **Dolovich L,** Kennie N, **Sellors C.** Perceptions of pharmacist and family physician contributions to medications-related processes: change over time as pharmacists integrated into family practice. CPhA 94th Annual National Conference. Edmonton, Alberta, June 3-6, 2006. (oral)
38. **Lau E, Papaioannou A, Dolovich L,** Raina P, **Burns S, Nair K, Emili A,** Kennedy C. Exploring elderly patients' perceptions about strategies to improve adherence to medications: A qualitative study. CPhA 94th Annual National Conference. June 4, 2006. Edmonton, AB. (oral)
39. **McCarthy L, Dolovich L,** Austin Z. Development and pilot-test of a questionnaire to elicit physician's expectations of pharmacists based in family practice. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
40. **Dolovich L, Nair K, Burns S.** Taking stock: Lessons learned from a multidisciplinary program of research in primary care. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
41. **Dolovich L, Sellors C,** Woodward C, Farrell B, **Kaczorowski J,** Gaebel K, Pottie K. Evaluation model for the Integrating family Medicine and Pharmacy to Advance primary Care Therapeutics (IMPACT) project. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)

42. Swanson G, **Kaczorowski J, Agarwal G**, Wilson A, Dorcas M. The incidence and treatment of diabetic emergencies by paramedics services in Halton, Ontario. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
43. **Kaczorowski J**, Chambers L, **Karwalajtys T, Dolovich L**, Farrell B, McDonough B, Sebaldt RJ, Levitt C, Hogg W, **Thabane L**, Tu K, Goeree R, Paterson M, Shubair M, Gierman T, Stevens R, **Howard M**, Cross D. Design of a community-randomized trial of the **Cardiovascular Health Awareness Program (CHAP)**. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
44. **Agarwal G, Kaczorowski J**. **Community Health Awareness of Diabetes (CHAD): Feasibility and acceptability of a program to improve diabetes risk-assessment using pharmacy-based volunteer-run sessions**. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
45. **Levine M**. Why physicians knowingly ignore prescribing guidelines: What physicians do and why they do it. St. Joseph's Healthcare, Medical Grand Rounds, June 2006, Hamilton, ON. (oral)
46. **Qureshi A**, Marshall D, Howell D, **Kaczorowski J**, Taniguchi A, **Howard M, Brazil K**. Survey of community based primary Care physician's confidence in communicating with palliative patients. Trillium Primary care Research Forum. June 2, 2006. Hamilton, ON. (oral)
47. Marshall D, Howell D, Brazil K, **Kaczorowski J, Howard M**, Taniguchi A. Enhancing provision of palliative care by primary care physicians: A demonstration project integrating primary care and interdisciplinary specialist palliative care. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
48. **Kaczorowski J**, Sebaldt R, Lohfeld L, Donald F, Burgess K, Goeree R. P-PROMPT: **Provider and Patient Reminders in Ontario using Multi-strategy Prevention Tools demonstration project**. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
49. Anderson K, **Karwalajtys T**, Lohfeld L, Sebaldt RJ, Donald F, Burgess K, Goeree R, **Kaczorowski J**. Patients perspectives on reminder letters for influenza vaccinations in an older patient population. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
50. Roder S, **Karwalajtys T**, Anderson K, Laryea S, Lohfeld L, Goeree R, Donald F, Burgess K, Sebaldt RJ, **Kaczorowski J**. Women's perspective on the acceptability of reminder letters for screening mammography. Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
51. **Karwalajtys T**, Anderson K, Roder S, Laryea S, Lohfeld L, Goeree R, Donald F, Burgess K, Sebaldt RJ, **Kaczorowski J**. Are reminder letters useful to primary care patients due or overdue for Pap test screening? Trillium Primary Care Research Forum. June 2, 2006. Hamilton, ON. (oral)
52. **McCarthy L, Dolovich L**, Haq M, **Thabane L, Kaczorowski J**. Self reported risk for drug related problems in ambulatory elderly patients referred for family practice pharmacist assessment. Statistical Society of Canada. May 28-31, 2006. London, ON. (oral)
53. **Agarwal G, Kaczorowski J**. **Community Health Awareness of Diabetes (CHAD): Feasibility and acceptability of a program to improve diabetes and pre-diabetes risk assessment in people over 40 years old using pharmacy-based volunteer-run assessment**. Young Investigators Forum CIHR. May 4-6, 2006. Winnipeg, MB. (oral)
54. **Lau E**, on behalf of the COMPETE III study group. Clinical care coordinators: Supporting the implementation of computerized clinical decision support. E-Health Conference. May 1, 2006. Victoria, BC. (poster)
55. **Dolovich L, Nair K**. Taking stock: Lessons learned from TIPPS, a multidisciplinary program of research. CEM Rounds. April 24, 2006. Hamilton, ON. (oral)
56. **Qureshi A**, Marshall D, Howell D, **Kaczorowski J, Howard M**, Taniguchi A, **Brazil K**. Survey of community based primary care physicians' knowledge and confidence in providing palliative care. Conference on Palliative and End-of-Life Care. April 23-25, 2006. Toronto, ON. (oral)
57. **Papaioannou A**, Kennedy C, **Qureshi A**, Campbell G, **Dolovich L**, Garg A, **Holbrook A, Levine M**, Ray J. Piloting a renal drug alert system for seniors in long-term care. Canadian Geriatrics Society. April 20-22, 2006. Vancouver, BC. (poster)
58. **Abushomar H, Levine M**, Gaebel K. Evaluation of patient access to diabetic medications. CEM Research Day. March 27, 2006. Hamilton, ON. (oral)
59. **McCarthy L**. Self reported risk for medication problems in ambulatory elderly patients referred for family practice pharmacist assessment. CEM Research Day. March 27, 2006. Hamilton, ON. (oral)
60. **Jurcic J**. Insulin education study. CEM Research Day. March 27, 2006. Hamilton, ON. (oral)
61. **Agarwal G & Kaczorowski J**. **Community Health Awareness of Diabetes (CHAD) - feasibility and acceptability of a program to improve diabetes and pre-diabetes risk assessment in people over 40 years old using pharmacy-based volunteer-run assessment**. McMaster University Health Sciences invited guest lecture presentation. March 2, 2006. Hamilton, ON. (oral)
62. Farahani P, **Levine M**, Gaebel K. Exploring patient characteristics associated with lipid-lowering therapeutics use in Canadian population. CEM Research Day. March 27, 2006. Hamilton, ON. (oral)

63. Ploeg J, Brazil K, Hutchison B, **Kaczorowski J**, Dalby D, Goldsmith C, Furlong W. Identification and recruitment of frail older persons from family practices to participate in community based intervention studies. Sharing the Learning, Community Care Research Center. March, 2006. Hamilton, ON. (oral)
64. **McCarthy L** & Hak M. Self reported risk for medication problems in ambulatory elderly patients referred for family practice pharmacist assessment. CEM Rounds. Jan 16, 2006. Hamilton, ON. (oral)
65. **Agarwal G**. The **Community Health Awareness of Diabetes** program (CHAD). Health Care, Technology, and Place (HCTP) seminar. Jan 18, 2006. Toronto, ON. (oral)
66. **Kaczorowski J**, Sebaldt. Provider and Patient Reminders in Ontario using Multi-strategy Prevention Tools: Demonstration project to increase the delivery of 4 preventive care services by 250 family physicians to 350,000 Ontarians. Child & Family Research Institute. Jan 2006. Vancouver, BC. (oral)
67. **Kaczorowski J**, Sebaldt RJ. Provider and Patient Reminders in Ontario using Multi-strategy Prevention Tools (P-PROMPT). Academic Forum, Department of Family Medicine. Oct 4, 2005. McMaster University, Hamilton, ON. (oral)
68. **Agarwal G, Nair K, Cosby J, Dolovich L, Butler C, Levine M, Kaczorowski J**. Exploring family physicians' attitudes and beliefs towards insulin therapy in elderly patients with type 2 diabetes: A qualitative study. NAPCRG Annual Meeting. Oct 15-18, 2005. Quebec City, PQ. (oral)
69. **Nair K, Holbrook A, Jiang H, Xu S, Dolovich L, Thabane L**. Patient priorities in diabetes: A novel but difficult concept. CDA/CSEM Professional Conference and Annual Meeting. October 2005. Edmonton, AB. (oral)
70. **Nair K, Burns S, Papaioannou A, Kaasalainen S, Dolovich L**. Interventions to optimize medication use in long-term care settings: A systematic review. NAPCRG. Oct 15-18 2005. Quebec City, PQ. (poster)
71. **Karwalajtys T**, Hall H, Chambers L, **Kaczorowski J**, McDonough B, **Dolovich L**, Sebaldt R, Guirguis-Younger M. Participation in a community blood pressure monitoring program with feedback to family physicians. 33rd NAPCRG Annual Mtg. Oct 2005. Quebec City, PQ. (poster)
72. **Emili A, Kaczorowski J, Burns S**, Chan D, **Dolovich L, Papaioannou A**. Prevalence and management of depression in the community-dwelling elderly: Mail-out survey combined with a medical chart review. NAPCRG. Oct 15-18 2005. Quebec City, PQ. (poster)
73. **Kaasalainen S**, Coker E, **Dolovich L, Papaioannou A**, Hadjistavropoulos T, **Emili A**. How beliefs and attitudes around pain influence decision making by physicians and nurses in long term care. School of Gerontology Fall Symposium. Oct 6, 2005. Hamilton, ON. (poster)
74. Pottie K, Farrell B, Haydt S, **Dolovich L**, Kennie N, **Sellors C**, Martin C on behalf IMPACT Investigators. Integrating a pharmacist into family practices: Qualitative results from the IMPACT study. 33rd NAPCRG Annual Meeting. October 2005. Quebec City, PQ. (poster)
75. **Dolovich L, Nair K, Burns S**, Patterson M, **Kavanaugh D**, on behalf of **TIPPS group**. Conducting health services research in primary care: Lessons learned from an interdisciplinary program of research. NAPCRG. Oct 15-18 2005. Quebec City, PQ. (poster)
76. **Dolovich L**, Pottie K, on behalf of IMPACT Team. Program overview poster. School of Gerontology Fall Symposium. Oct 6, 2005. Hamilton, ON. (poster)
77. **Agarwal G, Kaczorowski J**. **Community Health Awareness of Diabetes (CHAD)**. CDA Annual Meeting. Oct 20, 2005. Edmonton, AB. (poster)
78. **Jurcic J, Dolovich L**, Gerstein H, Neibert M, **Thabane L**. A survey for diabetes educators: Teaching patients with type 2 diabetes about insulin. School of Gerontology Fall Symposium. Oct 6, 2005. Hamilton, ON. (poster)
79. **Agarwal G, Nair K, Cosby J, Dolovich L, Butler C, Levine M, Kaczorowski J**. Exploring family physicians' attitudes and beliefs towards insulin therapy in elderly patients with type 2 diabetes: A qualitative study. School of Gerontology Fall Symposium. Oct 6, 2005. Hamilton, ON. (poster)
80. **Lau E, Papaioannou A, Dolovich L**, Adachi J, Sawka A, **Nair K, Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. School of Gerontology Fall Symposium. Oct 6, 2005. Hamilton, ON. (poster)
81. **Agarwal G, Kaczorowski J**. **Community Health Awareness of Diabetes (CHAD)**. School of Gerontology Fall Symposium. Oct 6, 2005. Hamilton, ON. (poster)
82. **Qureshi A**, Marshall D, Howell D, **Kaczorowski J**, Taniguchi A, **Howard M**, Brazil K. Survey of community based primary care physicians' knowledge and confidence of palliative care. North American Primary Care Research Group (NAPCRG) Conference. October 15-16 2005. Quebec City, PQ. (poster)
83. **Lau E**. Economic evaluation of a primary care based medication management program to reduce the risk of osteoporosis-related fractures. NAPCRG Oct 2005. Quebec City, PQ. (poster)
84. **Holbrook A**, on behalf of the COMPETE group. COMPETE III Program overview. Fall Symposium. Oct 6 2005. Hamilton, ON. (poster)
85. **Qureshi A**, Marshall D, Howell D, **Kaczorowski J**, Taniguchi A, **Howard M**, Brazil K. Survey of community based primary care physicians' knowledge and confidence of palliative care. 6th International Conference on the Scientific Basis of Health Services (ICSBHS). September 18-20. Montreal, PQ. (poster)

86. Farahani P, **Levine M**, Gaebel K. Assessment Of patient characteristics associated with statin use (interim report). CE&B Research Day. Sept 21, 2005. Hamilton, ON. (Oral & poster).
87. **Kaczorowski J**. Airdrie Community Hypertension Awareness (and Management) Program (A-CHAMP). Global perspectives on chronic disease management: The Calgary Conference 2005. September 26-29th 2005. Calgary, AB. (oral)
88. **Lau E, Papaioannou A, Dolovich L**, Adachi J, Sawka A, **Nair K, Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. CE&B Annual Research Day. Sept 21, 2005. Hamilton, ON. (poster & oral)
89. **Emili A, Kaczorowski J, Burns S**, Chan D, **Dolovich L, Papaioannou A**. Prevalence and management of depression in the community-dwelling elderly: Mail-out survey combined with a medical chart review. CE&B Research Day. Sept 21 2005. Hamilton, ON. (poster & oral)
90. **Pereira JA, Holbrook AM**, Perera G. The lack of individualization of harms and benefits reporting of randomized controlled trials. CE&B Research Day. September 2005. McMaster University, Hamilton ON. (oral)
91. **Kaczorowski J, Dolovich L**, Paterson M, Uppaluri A, **Howard M**, Gaebel K, **Lau E, Jurcic J**, Rodriguez C, Pottie K. Integrating family Medicine and Pharmacy to Advance primary Care Therapeutics: Chart audit to identify patients who could potentially benefit from such integration. International Conference on the Scientific Basis of Health Services. September 18-20, 2005. Montreal, PQ. (poster)
92. **Papaioannou A**, Pathak A, **Nair K, Burns S, Lau E, Dolovich L**, Sawka A, Kennedy C, Adachi J. Barriers and facilitators to osteoporosis medication adherence: Patient perceptions and strategies. ASBMR: 27th Annual Meeting. Sept 2005. Nashville, TN, USA. (poster)
93. **Agarwal G, Kaczorowski J**. Community Health Awareness of Diabetes (CHAD) - feasibility and acceptability of a program to improve diabetes and pre-diabetes risk assessment in people over 40 years old using pharmacy-based volunteer-run assessment. CE&B Research Day. Sept 21, 2005. Hamilton, ON. (poster)
94. **Dolovich L, Burns S, Nair K, Patterson M**, Kavanaugh D, on behalf of TIPPS group. Conducting health services research in primary care: Lessons learned from an interdisciplinary program of research. CE&B Research Day. Sept 21 2005. Hamilton, ON. (poster & oral)
95. **Lau E, Papaioannou A, Dolovich L**, Adachi J, Sawka A, **Nair K, Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. CE&B Annual Research Day. Sept 21, 2005. Hamilton, ON. (poster & oral)
96. **Emili A, Kaczorowski J, Burns S**, Chan D, **Dolovich L, Papaioannou A**. Prevalence and management of depression in the community-dwelling elderly: Mail-out survey combined with a medical chart review. CE&B Research Day. Sept 21 2005. Hamilton, ON. (poster & oral)
97. **Dolovich L, Burns S, Nair K, Patterson M, Kavanaugh D, on behalf of TIPPS group**. Conducting health services research in primary care: Lessons learned from an interdisciplinary program of research. CE&B Research Day. Sept 21 2005. Hamilton, ON. (poster & oral)
98. **Kaczorowski J**, Sebaldt RJ. Provider and Patient Reminders in Ontario using Multi-strategy Prevention Tools (P-PROMPT). Joint Preventive Oncology Seminar Series. Cancer Care Ontario. September 21, 2005. Toronto, ON. (oral)
99. Farahani P, **Levine M**, Gaebel K. Assessment Of patient characteristics associated with statin use (interim report). CE&B Research Day. Sept 21, 2005. Hamilton, ON. (Oral & poster).
100. Farahani P, Gaebel K, LeLorier J, Perrault S, Gillis J, Soon J, **Levine M**. Who are statin users in the community? (A Canadian Experience). 21st International Conference on Pharmacoepidemiology and Therapeutic Risk Management. Aug 21-24, 2005. Nashville, TN, USA. (poster)
101. **Qureshi A**, Marshall D. Survey of primary care physicians' knowledge and confidence of palliative care. Trillium Primary Care Research Forum. June 10, 2005. Toronto, ON. (poster)
102. Farahani P, Gaebel K, LeLorier J, Perrault S, Gillis J, Soon J, **Levine M**. Assessment of Patient Characteristics Associated with Statin Use (Preliminary Report). 2nd Canadian Therapeutics Congress. Vancouver, BC. April 2004. (poster)
103. Sebaldt RJ, **Kaczorowski J**. Provider and Patient Reminders in Ontario using Multi-strategy Prevention Tools: Demonstration project to increase the delivery of 4 preventive care services by 250 family physicians to 350,000 Ontarians. CEM rounds. June, 2005. Hamilton, ON. (oral)
104. **Cosby J, Levine M**. The GAP between evidence and prescribing in primary care. Centre for Health Sciences Research. June 10, 2005. Cardiff, Wales. (oral)
105. Anderson K, **Kaczorowski J**, Sebaldt R, Lohfeld I, Burgess F, Donald F. Use of reminder strategies and attitudes towards preventive services by family physicians participating in the P-PROMPT project (Provider and Patient Reminders in Ontario: Multi-strategy Prevention Tools). Trillium Primary Care Research Forum. June 10, 2005. Toronto, ON. (oral)

106. **Kaasalainen S**, Coker E, **Dolovich L**, **Papaioannou A**, Hadjistavropoulos T, **Emili A**. How beliefs and attitudes around pain influence decision making by physicians and nurses in long term care. CEM Rounds. June 6, 2005. Hamilton, ON. (oral)
107. **Lau E**, **Papaioannou A**, **Dolovich L**, Adachi J, Sawka A, **Nair K**, **Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. CEM Rounds. June 6, 2005. Hamilton, ON. (oral)
108. **Emili A**, **Kaczorowski J**, **Burns S**, Chan D, **Dolovich L**, **Papaioannou A**. Prevalence and management of depression in the community-dwelling elderly: Mail-out survey combined with a medical chart review. CEM Rounds. June 6, 2005. Hamilton, ON. (oral)
109. **Agarwal G**, **Nair K**, **Cosby J**, **Dolovich L**, **Butler C**, **Levine M**, **Kaczorowski J**. Exploring family physicians' attitudes and beliefs towards insulin therapy in elderly patients with type 2 diabetes: A qualitative study. CEM Rounds. June 6, 2005. Hamilton, ON. (oral)
110. **Lau E**, **Papaioannou A**, **Dolovich L**, Adachi J, Sawka A, **Nair K**, **Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. Annual Tri-City Research Day in Geriatric Medicine. June 8, 2005. Hamilton, ON. (oral)
111. **Jiang H**, **Thabane L**, **Holbrook A**, **Nair K**, **Dolovich L**. Analysis of priorities of patients living with diabetes. Statistical Society of Canada Annual Conf. June 12-15, 2005. Saskatoon, SK. (oral)
112. **Agarwal G**, **Nair K**, **Cosby J**, **Dolovich L**, **Butler C**, **Levine M**, **Kaczorowski J**. Exploring family physicians' attitudes and beliefs towards insulin therapy in elderly patients with type 2 diabetes: A qualitative study. Trillium Primary Care Research Forum. June 10, 2005. Toronto, ON. (oral)
113. **Kaczorowski J** on behalf of the CHAT/CHAP working group. Overview of the CHAT/CHAP research program. Academic Forum, Department of Family Medicine. May 3, 2005. McMaster University, Hamilton, ON. (oral)
114. **Kaczorowski J** on behalf of the CHAT/CHAP working group. **Airdrie Cardiovascular Health Awareness and Management Program (A-CHAMP)**. May 12, 2005. Airdrie, AB. (oral)
115. **Kaasalainen S**, Coker E, **Dolovich L**, **Papaioannou A**, Hadjistavropoulos T, **Emili A**. How beliefs and attitudes around pain influence decision making by physicians and nurses in long term care. Paper presented at the Canadian Gerontological Nurses Association. May 2005. Halifax, NS. (oral)
116. **Butler C**. Determinants of antimicrobial use. May 2005. Pasteur Institute Paris, France. (oral)
117. **Dolovich L**, **Patterson M**, **Kaczorowski J**, Uppaluri A, **Howard M**, Gaebel K, **Lau E**, **Jurcic J**, Rodrigues C, Pottie K for the IMPACT team. Extent to which primary care patients underuse effective drug therapies or are at risk for potential drug-related problems. CPHA Conference. May 2005. Quebec City, PQ. (poster)
118. **Karwalajtys T**, **Kaczorowski J**, Chambers L, Hall H, McDonough B, **Dolovich L**, Sebaldt R. Community-wide implementation of a blood pressure program with feedback to family physicians. Ontario Hypertension Society Annual Spring Conference. April 29-May 1, 2005. Niagara on the Lake, ON. (poster)
119. **Kaczorowski J**, Chambers LW, Levitt C, Hogg W, **Karwalajtys T**, Hendriks A, on behalf of the CHAT Working Group. The **Community Hypertension Assessment Trial (CHAT)**. Ontario Hypertension Society Annual Spring Conference. April 29-May 1, 2005. Niagara on the Lake, ON. (poster)
120. **Dolovich L**, **Sellors C**, Woodward C, Farrell B, **Kaczorowski J**, Gaebel K, Pottie K. Evaluation model for the integrating family medicine and pharmacy to advance primary care therapeutics (IMPACT) project. 2nd Canadian Therapeutics Congress. Vancouver, BC. April 2005. (oral)
121. **Abushomar H**, Gaebel K, **Levine M**. Evaluation of Patient Access to Diabetic Medication. 2nd Canadian Therapeutics Congress. April 2004. Vancouver, BC. (poster)
122. **Karwalajtys T**, **Kaczorowski J**, Chambers L, Hall H, McDonough B, **Dolovich L**, Sebaldt R, on behalf of the CHAP Working Group. Community-wide implementation of a blood pressure monitoring program with feedback to family physicians. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
123. **Kaczorowski J**, Chambers LW, **Dolovich L**, Levitt C, Hogg W, **Karwalajtys T**, Hendriks A, CHAT Working Group. Primary care cardiovascular health promotion program: the **Community Hypertension Assessment Trial (CHAT)**. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
124. **Lau E**, **Papaioannou A**, **Dolovich L**, Adachi J, Sawka A, **Nair K**, **Burns S**, Pathak A, Kennedy C. Exploring patient perceptions about strategies to improve adherence to osteoporosis therapies: A qualitative study. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
125. **Dolovich L**, **Kaczorowski J**, Uppaluri A, **Howard M**, Gaebel K, **Lau E**, **Jurcic J**, Pottie K. Chart audit of indicators for underutilization of effective drug therapy and drug related risk in primary care. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
126. **Lau E**, **Dolovich L**, **Kaczorowski J**, **Karwalajtys T**, **Levine M**. Determining the prevalence and predictors of blood pressure self-management in community-dwelling seniors. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)

127. **Jurcic J**, Gaebel K, **Levine M**. Is there an association amongst current medication use, clinical lab values and quality of life scores in patients with type 2 diabetes? 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
128. Gaebel K, **Cosby J**, **Abushomar H**, **Levine M**. Physician perceptions and experiences with restrictive policies for patient access to diabetic medications. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
129. Farrell B, Pottie K, Woodend K, Haydt S, Kennie N, **Dolovich L**, Martin C, **Sellors C**, on behalf of the IMPACT investigators. Development of the family medicine medication use processes matrix. 2nd Canadian Therapeutics Congress. April 2005. Vancouver, BC. (poster)
130. **Levine M**. Impact of formulary policy on thiazolidinedione (TZD) use in the **Ontario Drug Benefit (ODB)** program. American Society for Clinical Pharmacology and Therapeutics Annual Meeting. March 2005. Orlando, FL, USA. (poster)
131. **Kaczorowski J**, on behalf of the CHAT/CHAP working group. The **Community Hypertension Assessment Trial (CHAT)**: Preliminary results. Clinical Epidemiology Seminar Rounds, University of Ottawa. March 4, 2005. Ottawa, ON. (oral)
132. **Dolovich L**. Mixed methods analysis: A comparison of approaches considered for the IMPACT study. CEM Rounds. February 21, 2005. Hamilton ON. (oral)
133. **Abushomar H**, **Levine M**, Gaebel K. Evaluation of patient access to diabetic medications: Preliminary report. CEM Research Day. January 25, 2005. Hamilton, ON. (oral)
134. **Jurcic J**, Gaebel K, **Levine M**. Is there an association amongst current medication use, clinical lab values and quality of life scores in patients with type 2 diabetes? CE&B Research Day. January 28, 2005. Hamilton, ON. (oral)
135. **Jurcic J**, **Burns S**. Thiazolidinediones in combinations with hypoglycemic agents in type 2 diabetes: A meta-analysis. CEM Research Day. January 25, 2005. Hamilton, ON. (oral)
136. **Nair K**, **Holbrook A**, **Dolovich L**. Patient priorities in diabetes. CE&B Research Day. January 28, 2005. Hamilton, ON. (poster)
137. Farahani P, **Levine M**, Gaebel K. Assessment of patient characteristics associated with statin use: Interim report. CEM Research Day. January 25, 2005. Hamilton, ON. (oral)
138. **Butler CC**, Cannings R. Do complications from common infections increase as fewer antibiotics are dispensed in primary care? Wales Primary Care Symposium, Plenary presentation. November 2004. Wales, UK. (oral)
139. **Kaczorowski J**, Chambers LW, Levitt C, Hogg W, **Dolovich L**, **Karwalajtys T**, Hendriks A. Primary care cardiovascular health promotion program: The **Community Hypertension Assessment Trial (CHAT)**. WONCA World Conference of Family Doctors. October 2004. Orlando, FL, USA. (oral)
140. Vidal-Alaball J, **Butler CC**, Hood K, Cannings R, McCaddan A, **Papaioannou A**. Oral vitamin B12 for the treatment of vitamin B12 deficiency. WONCA World Conference of Family Doctors. October 2004. Orlando, FL, USA. (oral)
141. **Nair K**, **Holbrook A**, **Dolovich L**. Patient priorities in diabetes. NAPCRG Annual Meeting. October 10-13, 2004. Orlando, FL, USA. (poster)
142. **Karwalajtys T**, **Kaczorowski J**, Chambers L, Hall H, McDonough B, **Dolovich L**, Sebaldt R. Community-wide implementation of a blood pressure program with feedback to family physicians. NAPCRG Annual Meeting. October 10-13, 2004. Orlando, FL, USA. (poster)
143. **Nair K**, **Holbrook A**, **Dolovich L**. Patient priorities in diabetes. Graduate Programs in Health Sciences Annual Research Day, McMaster University. October 27, 2004. Hamilton, ON. (poster)
144. **Jiang H**. Data analysis for patient priorities in living with diabetes. CEM rounds. September 14, 2004. Hamilton, ON. (oral)
145. **Lau E**. Delivering written therapeutic information to patients: How can it be improved? Canadian Society of Hospital Pharmacists Annual General Meeting. August 15, 2004. Edmonton, AB. (poster)
146. **Dolovich L**, Vanditelli C, **Sellors C**, **Howard M**, **Lau E**, **Kaczorowski J**, Austin Z, Goeree R, Woodward C, Levitt C. Pharmacist integration within community family physician group practices: A qualitative study. Canadian College of Clinical Pharmacy Annual Conference. June 4, 2004. Winnipeg, MB. (poster)
147. **Kaczorowski J**. Evaluating models of interdisciplinary care focused on improved therapeutics: The challenges of designing and evaluating multifaceted interdisciplinary interventions. Canadian College of Clinical Pharmacy Annual Meeting. June 4, 2004. Winnipeg, MB. (oral)
148. **Kaczorowski J**. Research Capacity: Why we need the ABC project? **Actively Building Capacity** in interdisciplinary primary health care research launch workshop. Ontario College of Family Physicians. June 7, 2004. Toronto, ON. (oral)
149. **Lau E**, **Dolovich L**, **Kaczorowski J**, **Karwalajtys T**, **Levine M**, for the **Community Hypertension Assessment Trial (CHAT)** working group. Blood pressure awareness and monitoring practices among elderly

- primary care patients: Determining prevalence and predictors. Canadian College of Clinical Pharmacy Annual Conference. June 4, 2004. Winnipeg, MB. (poster)
150. **Jurcic J**, Gaebel K, **Levine MAH**. Is there an association amongst current medication use, clinical lab values and quality of life scores in patients with type 2 diabetes? 92nd annual CPhA conference. May 17, 2004. Niagara Falls, ON. (poster)
 151. **Dolovich L**, Pottie K, Farrell B, **Kaczorowski J**, **Sellers C**, Gaebel K, Austin Z, for the IMPACT investigators. Integrating family Medicine in Pharmacy to Advance primary Care Therapeutics (IMPACT). 92nd annual CPhA conference. May 17, 2004. Niagara Falls, ON. (poster)
 152. **Lau E**, **Dolovich L**, **Kaczorowski J**, **Karwalajtys T**. Determining the prevalence and predictors of seniors' blood pressure awareness and monitoring practices. 1st Canadian Therapeutics Congress. April 2004. Winnipeg, MB. (poster)
 153. **Dolovich L**, **Kaczorowski J**, **Sellers C**, Vanditelli C, **Howard M**, **Lau E**, Austin Z, Woodward C, Levitt C, Goeree R. Pharmacist integration within community family physician group practices: A qualitative study. 1st Canadian Therapeutics Congress. April 2004. Winnipeg, MB. (poster)
 154. **Jurcic J**, Gaebel K, **Levine MAH**. Is there an association amongst current medication use, clinical lab values and quality of life scores in patients with type 2 diabetes? 1st Canadian Therapeutics Congress. April 2004. Winnipeg, MB. (poster)
 155. **Kaczorowski J**, for the CHAT/CHAP working group. Family physicians, public health units and volunteer associations deploying older adults as peer health educators to promote cardiovascular health. Kidney Foundation of Canada, Annual General Meeting. April 2004. Stratford, ON. (oral)
 156. **Dolovich L**, **Kaczorowski J**, **Sellers C**, Vanditelli C, **Howard M**, **Lau E**, Austin Z, Woodward C, Levitt C, Goeree R. Pharmacist integration within community family physician group practices: A qualitative study. 2nd ACCP –ESCP International congress on clinical pharmacy. April 28-30, 2004. Paris, France. (oral)
 157. **Kaczorowski J**, Chambers LW, **Thabane L**, O'Rourke K, **Karwalajtys T**, Hall H, Levitt C, Hogg W, **Dolovich L**, for the CHAT working group. Operationalizing the primary endpoint in the **Community Hypertension Assessment Trial (CHAT)**. CEM rounds. March 2004. Hamilton, ON. (oral)
 158. **Butler CC**, Cannings R. Antibiotic prescribing relating to the number of complications arising from common infections in Wales. Society for Academic Primary Care, South West Meeting. March 2004. (oral)
 159. Vidal-Alaball J, **Butler CC**, Hood K, Cannings R, McCaddan A, **Papaioannou A**. Oral vitamin B12 for the treatment of vitamin B12 deficiency. Southwest Association of Academic Practitioners. February 2004. Oxford, UK. (oral)
 160. **Lau E**, **Dolovich L**, Marshall D, **Thabane L**, for the TIPPS group. Determining the importance of different features of therapeutic information in seniors with type 2 diabetes. CSHP 35th annual conference. February 2004. Toronto, ON. (poster)
 161. Huh A. Evaluation of the attitudes of recent users of HRT and the self-perceived influence of the media coverage regarding results from the **Women's Health Initiative (WHI)** study on the decision to use HRT (AWARE). CEM Research Day. January 27, 2004. Hamilton, ON. (oral)
 162. **Karwalajtys T**, **Kaczorowski J**, Chambers LW, **Thabane L**, O'Rourke K, Hall H, Levitt C, Hogg W, **Dolovich L**, for the CHAT working group. **Community Hypertension Assessment Trial (CHAT)**. CEM Research Day. January 27, 2004. Hamilton, ON. (oral)
 163. Chambers L, O'Rourke K, on behalf of the CHAT working group. Deciding what endpoints to use in the **Community Hypertension Assessment Trial (CHAT)**. Clinical Epidemiology Rounds. January 23, 2004. Ottawa, ON. (oral)
 164. **Lau E**, for the TIPPS group. Determining the importance of different features of therapeutic information in seniors with type 2 diabetes. CEM Research Day. January 27, 2004. Hamilton, ON. (oral)
 165. **Nair K**, **Holbrook A**, **Dolovich L**. Patient priorities in diabetes. CEM Rounds. December 9, 2003. Hamilton, ON. (oral)
 166. Sawka A, Huh A, **Papaioannou A**, **Dolovich L**, Eva K, **Thabane L**, Gafni A, Cullimore A, MacDougall M, Steiner M, Adachi JD. Attitudes of **Women who Are currently using or Recently stopped Estrogen** replacement therapy with or without progestins: The AWARE study. Fourth European Congress on Clinical and Economic Aspects of Osteoporosis and Osteoarthritis. November 14-17, 2003. Nice, France. (poster)
 167. **Agarwal G**. Insulin therapy in elderly Type 2 diabetics. NAPCRG Annual Meeting. October 26, 2003. Banff, AB. (oral)
 168. **Agarwal G**, **Dolovich L**. Insulin therapy in seniors who have type 2 diabetes: A systematic review. Can Diabetes Association Annual Conference. October 15-18, 2003. Ottawa, ON. (poster)
 169. **Lau E**, **Dolovich L**, **Thabane L**, Marshall D, for the TIPPS group. Development and administration of a survey to determine the therapeutic information preferences of seniors. NAPCRG Annual Meeting. October 26, 2003. Banff, AB. (poster)

170. **Agarwal G, Dolovich L.** Insulin therapy in seniors who have type 2 diabetes: A systematic review. Can Diabetes Association Annual Conference. October 15-18, 2003. Ottawa, ON. (poster)
171. **Lau E, Dolovich L, Thabane L,** Marshall D, for the TIPPS group. Determining the importance of different features of therapeutic information in seniors with Type 2 diabetes. Canadian Society of Clinical Pharmacology 25th Anniversary Scientific Meeting. September 20, 2003. Ottawa, ON. (poster)
172. **Agarwal G.** Insulin therapy in elderly Type 2 diabetics. Trillium Primary Care Research Conference. May 30, 2003. Toronto, ON. (oral)

173. **Lau E, Dolovich L.** The types of drug related problems identified and resolved by the provision of pharmaceutical care to seniors: A systematic overview. The Canadian College of Clinical Pharmacy. May 30, 2003. Montreal, PQ. (poster)
174. **Dolovich L, Nair K, Burns S,** on behalf of the TIPPS group. Readability of therapeutic information for patients: A systematic overview. CAPT. April 2003. Quebec City, PQ. (poster)
175. **Cosby J, Levine M, Burns S,** Singh S. Physician perceptions of 'too many' medications. CAPT. April 2003. Quebec City, PQ. (oral)
176. **Levine M, Cosby J, Burns S,** Singh S. Understanding why physicians modify or ignore prescribing guidelines. American Society for Clinical Pharmacology and Therapeutics Annual Meeting. April 2003. Washington, DC, USA. (poster)
177. **Cosby JL, Levine M, Burns S.** Understanding why physicians sometimes modify or ignore prescribing guidelines. CAPT. April 2003. Quebec City, PQ. (poster)
178. **Cosby J, Levine M, Burns S.** Physician motivations for following, modifying or ignoring prescribing guidelines. Canadian Psychological Association annual conference. March 2003. Hamilton, ON. (poster)

TIPPS Network Summary

A Network of primary care physicians, community pharmacists and patients was developed with the intention that Network members could collaborate with the research team to address the many drug-related problems facing seniors. By the end of Year 5 the TIPPS Network included 406 physicians, 97 pharmacists, 61 nurses, 72 patients, and 17 other participants.

	Joined Year 1	Joined Year 2	Joined Year 3*	Joined Year 4*	Joined Year 5*	Total
Physicians	15	21	338	31	1	406
Pharmacists	27	18	35	15	2	97
Nurses	0	0	59	2	0	61
Seniors	11	50	11	0	0	72
Other	2	3	10	1	1	17
TOTAL	55	92	453	49	4	653

*Includes both formal and informal members

During the 5-year CIHR-funded NET grant, Network members were invited to participate in many of the TIPPS-enabled research projects and received regular communication and program activities via a TIPPS quarterly newsletter. Members were also invited to two continuing education workshops and two presentations of TIPPS research project findings. Workshop topics included 1) the delivery of therapeutic information to patients; and 2) using insulin in older adults.

Clinician Network members also received Clinical Updates on a variety of topics relevant to medication use and primary care. These Updates were developed by investigators and trainees. Clinical Update topics included:

- Insulin Use In Elderly Patients with Type 2 Diabetes
- Constipation
- Renal Function in the Elderly
- Using Spironolactone in Patients with Congestive Heart Failure
- Heart Failure Monograph

In year 5, TIPPS hosted a stakeholder workshop entitled “*Optimizing pharmacotherapy: Increasing benefits and decreasing harm from drug use.*” The objective of this workshop was to discuss areas for future research in pharmacotherapy. This resulted in the preliminary development of 5 key research questions.