

REBEL PIONEER CREATOR EXPLORER DEFENDER TRAILBLAZER CHALLENGER VISIONARY INNOVATOR ADVENTURER REBEL PIONEER CREATOR EXPLORER DEFENDER TRAILBLAZER CHALLENGER VISIONARY INNOVATOR ADVENTURER REBEL PIONEER CREATOR EXPLORER DEFENDER TRAILBLAZER CHALLENGER VISIONARY INNOVATOR ADVENTURER REBEL PIONEER CREATOR EXPLORER DEFENDER

2012/13 MCHP ANNUAL REPORT



UNIVERSITY
OF MANITOBA

Manitoba Centre
for Health Policy

WHO WE ARE

The Manitoba Centre for Health Policy (MCHP) is located within the Department of Community Health Sciences, Faculty of Medicine, University of Manitoba. The mission of MCHP is to provide accurate and timely information to health care decision-makers, analysts and providers, so they can offer services which are effective and efficient in maintaining and improving the health of Manitobans. Our researchers rely upon the unique Population Health Research Data Repository (Repository) to describe and explain patterns of care and profiles of illness, and to explore other factors that influence health, including income, education, employment and social status. This Repository is unique in terms of its comprehensiveness, degree of integration, and orientation around an anonymized population registry.

MCHP complies with all legislative acts and regulations governing the protection and use of sensitive information. We implement strict policies and procedures to protect the privacy and security of anonymized data.

Members of MCHP consult extensively with government officials, health care administrators, and clinicians to develop a research agenda that is topical and relevant. This strength, along with its rigorous academic standards, enables MCHP to contribute to the health policy process. MCHP undertakes five major research projects every year under contract to Manitoba Health. In addition, our researchers secure external funding by competing for research grants. We are widely published and internationally recognized. Further, our researchers collaborate with a number of highly respected scientists from Canada, the United States, Europe and Australia.

MCHP VISION, MISSION AND VALUES

Vision

The Manitoba Centre for Health Policy sets the international standard for using population-based administrative data to create new knowledge that informs health policy, social policy and service delivery.

Values

- Innovation and Excellence
- Collaboration and Teamwork
- Social Relevance and Stewardship

Mission

The Manitoba Centre for Health Policy (MCHP) is a research centre of excellence that conducts world class population-based research on health services, population and public health, and the social determinants of health. MCHP develops and maintains the comprehensive population-based data repository on behalf of the Province of Manitoba for use by the local, national and international research community. MCHP promotes a collaborative environment to create, disseminate and apply its research. The work of MCHP supports the development of evidence-informed policy, programs and services that maintain and improve the health and well-being of Manitobans.

The University of Manitoba's mission is to create, preserve and communicate knowledge, and thereby, contribute to the cultural, social and economic well-being of the people of Manitoba, Canada and the world. MCHP is situated within the University of Manitoba Strategic Plan Framework and the Faculty of Medicine Strategic Framework.

MESSAGE FROM OUR DIRECTOR

When I look back over the past year, I can't help thinking of connections – connections between data points and data sources as well as the connections we make with data providers, stakeholders and policy makers. Our whole approach at MCHP revolves around our three pillars of the Repository, the Research, and Knowledge Translation (putting that research into action) – all important in connecting the dots.

We have the privilege of housing the Population Health Research Data Repository at MCHP. This Repository contains billions of “dots” of data from 67 databases. These “dots” represent every Manitoban's encounter with the health care system, and even extend into the education and social areas. While many of our data represent discrete encounters, by forming connections we can get a picture of health, as health is more than healthcare. I think of those connect-the-dot pictures my grand-daughter enjoys so much, which, with a few points can be very simple, but as more points are used, can become quite complex. This puts us in a unique position as:



“A lot of people in our industry...don't have enough dots to connect, and they end up with very linear solutions without a broad perspective on the problem.” (Steve Jobs).

By connecting the “dots”, a picture is formed that can answer our research questions. To create this picture, we first need to identify the “dots” and find information related to them before organizing and connecting, testing and reconnecting, allowing a picture to emerge. For many questions, our concept dictionary provides us with a starting point in forming these connections. We can look at what “dots” have been previously connected and how they were connected, building on the picture that emerged from that work. It is because of the concept and data dictionaries that we can effectively identify and query these “dots” without being overwhelmed. The first pictures that are formed are often not complete, but as we test hypotheses and evaluate the results, the connections are modified and a clearer picture emerges. Such a process would not be feasible if it were not for our diverse teams that work together in forming these connections. To form more complete pictures we need more data. That's why we continually work with various agencies and government departments who have data that could enhance our understanding of health in order to bring the information into the Repository.

It is very important to us that the picture that is formed from these connections is logical and practical. It is why we connect with those who know both the “dots” and the people behind the “dots” through our Advisory Groups and *The Need to Know* Team, our collaborative with the health authorities and Manitoba Health. These groups help us put the “dots” and the final picture that emerges into perspective.

Through our workshops, briefings, and outreach, we create connections that allow us to not only put the pictures that emerge into action, but also to receive feedback, to help us refine our pictures. These are never final, and as our Repository grows, we can refine our pictures further.

These “dots” are what make MCHP world class. None of these “dots” would be possible without our relationship with Manitoba Health and a growing list of government agencies. We value these connections and as I travel around the world, I see how truly privileged we are.

As you flip through the pages of this report and read highlights of the results of the various connections, know that you have likely had a role in making them possible. Perhaps you provided a dot or two by visiting your doctor or perhaps we connected with you as owner of some of the data we use. In whatever way you were involved, thank you. None of the ‘dots’ and ‘connections’ that make MCHP world class would be possible without you. We value you.

There are numerous people who I wish to thank for their commitment and support. Please accept my apologies for anyone that may have been overlooked:

- Dr. Brian Postl, Dean of Medicine
- Dr. Sharon Macdonald, Chair of our MCHP Advisory Board (and Department Head for Community Health Sciences during part of this past fiscal year)
- Dr. Stephen Moses, Department Head for Community Health Sciences and Member of our Advisory Board
- Hon. Theresa Oswald and Milton Sussman, Minister and Deputy Minister of Health
- Hon. Jim Rondeau and Cindy Stevens, Minister and Deputy Minister of Healthy Living, Seniors and Consumer Affairs
- Hon. Nancy Allan and Gerald Farthing, Minister and Deputy Minister of Education
- Hon. Jennifer Howard and Jeff Parr, Minister and Deputy Minister of Family Services and Labour
- Hon. Kevin Chief and Jan Sanderson, Minister and Deputy Minister of Children and Youth opportunities
- Hon. Dave Chomiak and Grant Doak, Minister and Deputy Minister of Innovation, Energy and Mines
- Hon. Peter Bjornson and Hugh Eliasson, Minister and Deputy Minister of Entrepreneurship, Training and Trade
- Hon. Kerri Irvin-Ross and Joy Cramer, Minister and Deputy Minister of Housing and Community Development
- Deborah Malazdrewicz, Executive Director of Health Information Management, Manitoba Health – our “right hand person” who bi-weekly liaises with me on MCHP/Manitoba Health relationships
- Dr. Rob Santos, Executive Director, Science and Policy, Healthy Child Manitoba Office
- Dr. Mike Moffatt and Landis Esposito, Executive Director of the Research and Applied Learning Division in the WRHA and WRHA Chief Privacy Officer
- Members of the Healthy Child Committee of Cabinet
- Numerous individuals who have provided input and feedback for our deliverables, especially those who have served tirelessly on our advisory groups or as part of deliverable research teams
- All of the people who attend our workshop days
- The MCHP Research Coordinator group under the direction of Ruth-Ann Soodeen, who took on the task of helping with the annual report this year – stellar job, and kudos to all of you!!
- The research scientists, staff and students who ensure the success of MCHP

Patricia J. Martens



Director, Manitoba Centre for Health Policy; CIHR/PHAC Applied Public Health Chair; Professor,
Department of Community Health Sciences, Faculty of Medicine, University of Manitoba

MCHP WORKGROUPS

From our data to our deliverable reports and Knowledge Translation, MCHP has continued to thrive based on the work of its dedicated and talented staff. The people at MCHP indeed serve as the foundation to bring about many of the Centre's successes. Below are the workgroups formed to provide such supports – with each group designed to perform a unique function to help make MCHP a successful research unit.

Research Scientists

The Researcher Scientists at MCHP design and manage the research projects pursued by the Centre. Projects include deliverables for Manitoba Health, studies funded through peer reviewed research grants, peer-reviewed journal articles, educational and public presentations, briefings to government, op-eds and radio and television interviews. The researcher scientists also teach medical students; courses, mentor graduate students at the University of Manitoba, and apply for research grants in their areas of expertise.

Research Project Coordinators

This group coordinates deliverable project activities, through all phases of the project. Duties include a) ensuring the MCHP procedures are followed for data access use, report structure, and knowledge translation; b) helping develop analysis plans, documenting decisions for project methodology, creating and monitoring timelines, taking notes, providing background literature on research project topics; c) contributing to the presentation of results, including writing some sections of the report, presentations and posters; d) and facilitating communication within project teams and with external contacts.

Research Assistants

MCHP Research Assistants are students who provide support primarily to the Research Coordinators and Support Staff. They may carry out a variety of tasks such as: creating and editing graphs, tables, and presentations, literature searches, pulling various types of project specific information, creating reference lists, proof-reading documents, checking data, updating documents and occasionally, reception relief.

Data Management

This repository group supports the development and use of the Population Health Research Data Repository including the initial acquisition, conversion and installation of databases, annual updates, and ongoing maintenance of over 67 administrative database groups in several areas. Through the development and dissemination of data dictionaries, data quality assessments, data models, and other web-based resources such as MCHP's Concept Dictionary and Glossary, the Data Management Group provides detailed information about the Repository to researchers, analysts, and Remote Access Site (RAS) Users.

Research Assistants

Aynslie Hinds, Research Assistant

Jessica Jarmasz, Research Assistant

Susan Burchill, Research Assistant

Data Acquisition

J. Patrick Nicol, Lead Data Acquisition Officer

Say Hong, Data Management Analyst

Tyler Ostapyk, Documentation Coordinator

Dave Towns, Data Acquisition Officer

Angela Tan, Data Acquisition Officer

Ken Turner, Repository Data Analyst

Repository Access and Documentation

Ruth Bond, Manager of Repository Access and Documentation

Jo-Anne Baribeau, Repository Access Coordinator

Emily English, Repository Access Assistant

Marianne Wishnowski, Repository Access Assistant

Program and Analysis Systems

Charles Burchill, Associate Director, Data Access & Use

Wendy Au, Data Analyst

Bogdan Bogdanovic, Data Analyst

Hui Chen, Data Analyst

Matt Dahl, Data Analyst

Shelley Derksen, Data Analyst

Natalia Dik, Data Analyst

Oke Ekuma, Data Analyst

Sazzadul Khan, Data Analyst

Leonard MacWilliam, Data Analyst

Heather Prior, Data Analyst

Joykrishna Sarkar, Data Analyst

Carole Taylor, Data Analyst

Randy Walld, Data Analyst

Marina Yogendran, Data Analyst

Information Technology

Rod McRae, Information Technology Manager

Darrin Halabuza, Information Technology Support

Communications

Jack Rach, Communications Officer

Kirsten Giroux, Grants Accountant

Research Support

Leanne Rajotte, Research Support

ADVISORY BOARD MEMBERSHIP

Members by Position:

- Director of the Manitoba Centre for Health Policy: Dr. Patricia Martens
- Deputy Minister of Health: Milton Sussman
- Founding Directors: Drs. Noralou Roos and Leslie Roos
- Head of the Department of Community Health Sciences, Faculty of Medicine, University of Manitoba: Dr. Stephen Moses
- One representative from Treasury Board: vacant
- Dean of the Faculty of Medicine, University of Manitoba: Dr. Brian Postl
- Manitoba Health Liaise: Deborah Malazdrewicz
- Board Chair: Dr. Sharon Macdonald

Appointed Members: Up to seven appointees of Manitoba Health

1. Harvey Bostrom, Deputy Minister, Aboriginal and Northern Affairs
2. Grant Doak, Deputy Minister, Innovation, Energy and Mines
3. Gerald Farthing, Deputy Minister, Education
4. Monique Vielfaure Mackenzie, Executive Director, Regional Health Authorities of Manitoba
5. Jan Sanderson, Deputy Minister, Children and Youth Opportunities
6. Jeff Parr, Deputy Minister, Family Services and Labour
7. Cindy Stevens, Deputy Minister, Healthy Living, Seniors and Consumer Affairs

Appointed Members: Up to seven appointees of the University of Manitoba

1. Dr. David Collins, Vice Provost, Academic Planning and Programs, University of Manitoba
2. Dr. Digvir Jayas, Vice President, Research, University of Manitoba
3. Dr. Terry Klassen, Director of Research, Manitoba Institute of Child Health, U of Manitoba
4. Dr. S. Leonard Syme, Professor of Epidemiology and Community Health (Emeritus) University of California, Berkeley
5. Dr. Michael Moffatt, Executive Director, Research and Applied Learning Division, Winnipeg Regional Health Authority
6. Reg Toews, Member of the Community
7. Kevin Kavanagh, Member of the Community

Ex Officio Members:

Dr. Alan Katz, Associate Director, Research, MCHP
Mark Smith, Associate Director, Repository, MCHP
Charles Burchill, Associate Director, Data Access and Use, MCHP
John Dziadek, Associate Director, Administrative, MCHP

MCHP Staff Support to Advisory Committee:

Carole Ouelette, Executive Assistant

MCHP AWARDS & HONOURS

Dr. Malcolm Doupe, recipient of the 2012 Rh Institute Award for Outstanding Contributions to Scholarship and Research in the Health Sciences Category (\$12,000).



Dr. Mariette Chartier, recipient of an Honoray Diploma from l'Université de Saint-Boniface.

Dr. Patricia Martens recipient of the 2012 Una Ridley Health Sciences Lecture award, University of Lethbridge (\$5,000)

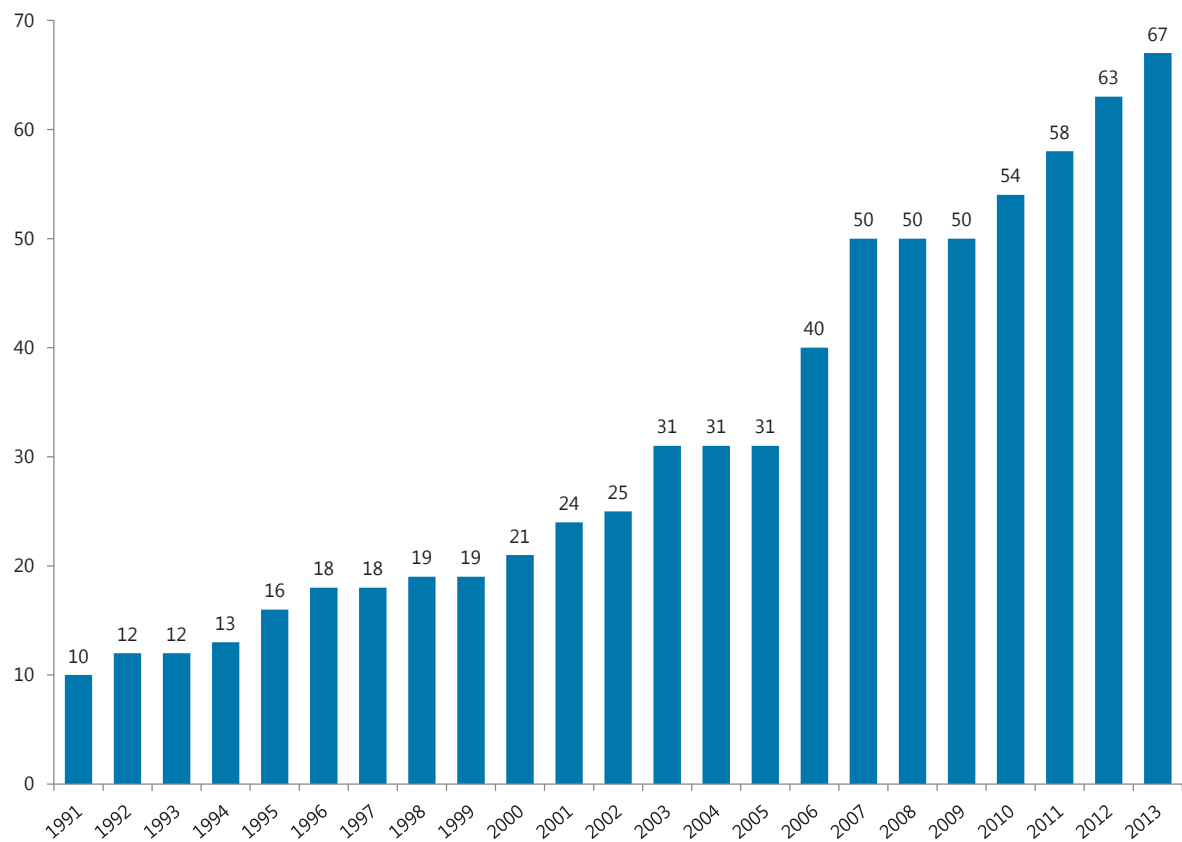


Dr. Alan Katz, recipient of Manitoba Research Chair in Primary Prevention from the Manitoba Health Research Council and the Heart and Stroke Foundation of Manitoba (\$100,000 per year for 5 years)

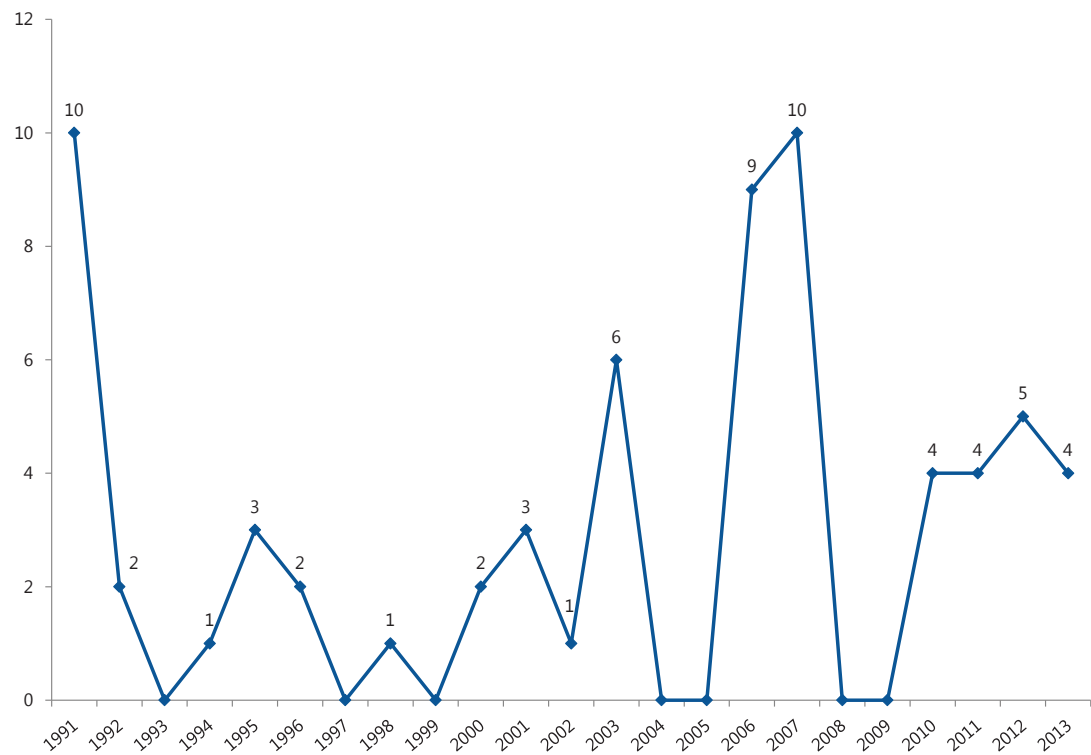


Greg Finlayson, PhD from Department of Health Policy and Administration from the University of Illinois
Angela Tan, Ph.D. from the Department of Statistics, University of Manitoba
Chun Yan Goh, MSc. from the Department of Human Nutritional Sciences

Total Number of Databases in MCHP Repository



Number of Databases Added to the MCHP Repository by Year



Swansea University, Wales

Royal University of Bhutan

REMOTE ACCESS SITES

There are currently seven RAS locations:

- There are 27 active projects across these RAS locations, an increase of nine from last year. One to two new project proposals are received by MCHP weekly, and approximately half of these indicate future RAS usage.

FUNDING FOR RESEARCH ACCESSING THE REPOSITORY

There are many research projects, conducted by MCHP research scientists or external researchers, which access the Repository for research data. Below lists the funding which supports with these projects.

MCHP–Administered Research

The following research projects were awarded funding to one or more MCHP research scientist(s). All funds are financially and administratively managed through MCHP. The primary source of the research data is the Population Health Research Data Repository, but projects may access data from other sources as well. (Listed in alphabetical order by funding organization.)

Canadian Foundation on Fetal Alcohol Research

Brownell M, Hanlon-Dearman A, Elias B, Chateau D, Phillips-Beck W, Roos N, Chudley A, Longstaffe S. \$50,000, 2011-2013. "Utilization of Health and Social Services by Manitoba First Nations Children with FASD"

Canadian Foundation for Innovation

Martens PJ. \$1,453,780, 2010-2014. "Leading Edge Access and Data Enhancement Research Strategy". Matching funds provided by MRIF.

Canadian Institutes of Health Research

Martens PJ. CIHR/PHAC Applied Public Health Chair. \$925,000, 03/2008-02/2013. "What works at the population level? An Applied Public Health Chair program of research focusing on population & public health issues."

Martens PJ, Caetano PA, Alessi-Severini S, Chateau D, Katz A, Mahmud S, Metge C, Raymond C, Vercaigne L, Bugdan S, Targownik L. \$320,000, 2011-2015. "Canadian Network for Observational Drug Effect Studies (CNODES), Database Team"

Martens PJ, Caetano PA, Levy A, Sketris I. 75,000, 2011-2015. "Canadian Network for Observational Drug Effect Studies (CNODES), Knowledge Translation Team"

Martens PJ (nominated PI), Co-PIs: Brownell M, Katz A, Chateau D, Chartier M, Fransoo R, Lix L, Metge C, Roos L, Santos R. Co-applicants: Bolton J, Doupe M, Hertzman C, Jutte D, Katz L, Raymond C, Roos N. CIHR Operating Grant on Programmatic Grants in Health and Health Equity. Title: PATHS Equity for Children: A program of research into what works to reduce the gap for Manitoba's children. Term of Funding: 2011-2016 (5 years). Amount: \$2.0 million (\$350,000 years 1 and 2; \$400,000 years 3-5, \$100,000 from Heart & Stroke Foundation

Roos NP, Martens PJ, Cassels, AK, Hirst N, Driedger SM, Katz A, et al. \$370,800, 2009-2013. "Injecting evidence into Health Policy Coverage: 'KT'ing the Mythbusters'" Matched grant with Manitoba Health Research Council.

Roos LL, Roos NP, Samuel SM, Bolton JM, Katz L. \$98,984, 2011-2014 "Childhood Social Factors in Development – the CHILDSOC Project."

Roos NP, Martens, PJ, Nuamah O, et al. \$397,321, 2012-2015 "Injecting Evidence into Health Policy Coverage: Working with the Media."

Manitoba Health

Martens PJ. \$11,625,000, 2010–2015. Manitoba Centre for Health Policy contract.

ONLINE RESEARCH RESOURCES

MCHP Concept Dictionary and Glossary

The Concept Dictionary and Glossary represent a series of research tools that were developed at MCHP to permit application of a variety of theoretical frameworks, analytical techniques, statistical approaches and mapping resources appropriate for use with administrative data bases.

This past year 239 terms were added to the glossary, resulting in a total of 2327 terms now available. Ten new concepts and 31 updated concepts were added to the Concept dictionary. The total number of concepts in the Concept Dictionary is now 275.

The Concept Dictionary describes over 200 research concepts developed at MCHP for analysing data contained in the Repository housed at MCHP. These detailed operational definitions of variables or measures used in MCHP research include a discussion of the issue(s) involved, approaches used, programming tips/cautions, SAS code (where not restricted for internal use), additional readings, and references.

The Glossary documents terms commonly used in population health and health services research. Each Glossary term contains a brief definition (and its source), links to related Glossary terms and concepts in the Concept Dictionary, as well as links to external sites.

Glossary terms and concepts used in the following Deliverables, released in 2012/13, were added to the on-line resources:

- The Epidemiology and Outcomes of Critical Illness in Manitoba
- The Early Development Instrument (EDI) in Manitoba: Linking Socioeconomic Adversity and Biological Vulnerability at Birth to Children's Outcomes at Age 5
- Health and Healthcare Utilization of Francophones in Manitoba
NOTE: *This deliverable was translated and released in French under the title "La santé et l'utilisation des services de santé des francophones du Manitoba". French terms are not included in the on-line glossary.*
- Projecting Personal Care Home Bed Equivalent Needs in Manitoba Through 2036
- How are Manitoba's Children Doing?
- Perinatal Services and Outcomes in Manitoba
- A Systematic Investigation of Manitoba's Provincial Laboratory Data
- Understanding the Health System Use of Ambulatory Care Patients

RESEARCH AT MCHP

Highlights:

- One new research scientist joined the MCHP team
- Eight deliverables were released
- 1st deliverable on Francophone health was released

Research at MCHP is a team effort. Deliverables (research reports done under contract with Manitoba Health) are our major research outputs; each of these projects takes about two years to complete. They involve teams that typically include research scientists, a research coordinator, research support, and data analysts. Teams meet regularly to discuss the direction of the study, methodological decisions, interpretation of the results, and to help determine how to best present them and tell the “stories” that emerge from the analyses. Several times over the course of a deliverable, the team also meets with an advisory group of researchers and representatives from both government and non-government agencies who have relevant expertise and can provide valuable feedback.

Some of the research questions explored this year include:

How does the health of Francophones compare to that of other Manitobans? How has ICU use changed over time? What role do specialists play in the provision of ambulatory disease management? How healthy are people who live in social housing? What is the epidemiology of chronic kidney disease and end-stage renal disease in Manitoba?

This section provides information on the research interests of MCHP research scientists, on recently released and ongoing deliverables, as well as other academic publications and presentations of research using MCHP Repository data.

MCHP RESEARCH SCIENTISTS

Dr. Marni Brownell

Research Focus: Child health and well-being, with a particular focus on the social determinants of health, developmental disabilities, children in out-of-home care, developing population-level indicators of child health, and evaluations of programs designed to improve childhood development.



Dr. Mariette Chartier

Research Focus: Prevention and early intervention programs for children and their parents, mental health promotion, child abuse and neglect, perinatal health, health risk behaviours, and health of vulnerable populations.



Dr. Dan Chateau

Research Focus: Population Health Research Methods, Area Based Socioeconomic Measures, Social Determinants of Health, Health Equity Analysis, and Population Health Intervention Effectiveness



Dr. Malcolm Doupe

Research Focus: Health services utilization and the aging population, risk factors of home care and nursing home use, factors that influence quality care in nursing homes; and health services utilization of emergency departments.



Dr. Greg Finlayson

Research Focus: funding methodologies, cost of health care for chronic conditions.



Dr. Randy Fransoo

Research Focus: Indicators of population health and health service use, rural health, obesity, cardiac care, and critical care



Dr. Alan Katz

Research Focus: Primary Care health service delivery, quality of care indicators, knowledge translation, and disease prevention



Dr. Patricia Martens

Research Focus: Health status and healthcare use of Manitoba's rural & northern residents, mental health, use of healthcare services by those with mental illness, the health of Aboriginal people, child health (including evaluating community intervention strategies to increase breastfeeding rates), and health inequities.



KEY DELIVERABLE RESEARCH FINDINGS

Manitoba ICUs are Busy but Coping

In this first comprehensive assessment of ICU care in Manitoba, Dr. Allan Garland and his team combined administrative health data with the ICU clinical database to examine how ICU use has changed from 1999 to 2008. Manitoba had fewer ICU beds per 1,000 than the national average (9.8 vs. 13.5 people) but was still able to meet demand; they were completely full less than 5% of the time. Other highlights include the finding that the number of admissions dropped slightly over time, while the number of patients with long ICU stays increased. Characteristics of ICU patients (mostly men) and the illnesses that brought them to the ICU (mainly cardiovascular related) were also examined.

Report: The Epidemiology and Outcomes of Critical Illness in Manitoba - Allan Garland, Randy Fransoo, Kendiss Olafson, Clare Ramsey, Marina Yogendran, Daniel Château, Kari-Lynne McGowan (released April 2012)

Preparing for School Begins at Birth

How well are children prepared for school? How can we ensure that they are ready? Administrative health and social data together with results from the Early Development Instrument (EDI) were used by Dr. Rob Santos and his team to measure children's readiness for school. The EDI focuses on five factors: physical health & well-being, social competence, emotional maturity, language & cognitive development and communication skills & general knowledge. Results showed that poorer EDI scores were strongly linked to health from very early on, even as early as birth (e.g. very low birth weight, longer ICU stay). They were also related to living in a poorer neighborhood, being born to a teen mother, living in a family that received income assistance, or being in the care of Child and Family Services. Having more than one of these risk factors increased children's vulnerability, and therefore their need for attention, if they are to succeed at school and later in life.

Report: The Early Development Instrument (EDI) in Manitoba: Linking Socioeconomic Adversity and Biological Vulnerability at Birth to Children's Outcomes at Age 5 - Rob Santos, Marni Brownell, Okechukwu Ekuma, Teresa Mayer, Ruth-Ann Soodeen (released May 2012)

Francophones' Health Improving with Each Generation

This was the first large-scale study of the health of Francophones in Manitoba, comparing them to non-Francophones on 76 health indicators. One key finding by Dr. Mariette Chartier and team was that although older Francophones seem to be less healthy than non-Francophones, while younger Francophones were healthier than non-Francophones. Life expectancy was similar between Francophones and non-Francophones, but Francophones did better in terms of such measures as graduation rates, and screening for breast and cervical cancer, and flu immunizations. They fared worse in readiness for school in Kindergarten, and they waited longer to be admitted to a personal care home.

Report: Health and Healthcare Utilization of Francophones in Manitoba -Mariette Chartier, Gregory S Finlayson, Heather J. Prior, Kari-Lynne McGowan, Hui Chen, Janelle de Rocquigny, Randy Walld, Michael Gousseau (released June 2012)

Doug Jutte, MD, MPH, Assistant Adjunct Professor, UC-Berkeley-UCSF Joint Medical Program, Associate Director, Master's Degree in Health & Medical Sciences, School of Public Health, University of California, Berkeley

Laurence Katz, MD, FRCPC, Associate Professor, Department of Psychiatry, Faculty of Medicine, University of Manitoba

Anita Kozyrskyj, PhD, Research Chair, Maternal-Child Health and the Environment, Associate Professor, Department of Pediatrics, Faculty of Medicine, University of Alberta

Meir Kryger, MD, FRCPC, Professor, Yale University School of Medicine

William Leslie, MD, FRCPC, Section of Nuclear Medicine, St. Boniface General Hospital; Professor, Department of Internal Medicine, Department of Radiology, Faculty of Medicine, University of Manitoba

Doug Manuel, MD, MSc, FRCPC, Senior Scientist, Ottawa Hospital Research Institute; PHAC/CIHR Chair in Applied Public Health Sciences; Senior Medical Advisor, Statistics Canada; Associate Professor, Department of Family Medicine, Department of Epidemiology and Community Medicine, University of Ottawa; Associate Scientist, C.T. Lamont Primary Care Research Centre, Élizabéth Bruyère Research Institute; Adjunct Scientist, Institute for Clinical Evaluative Sciences (ICES)

Colleen Metge, PhD Director, Research and Evaluation Unit, Winnipeg Regional Health Authority, Assistant Professor, Community Health Sciences

Michael Moffatt, MD, MSc, FRCPC, Executive Director, Research and Applied Learning, Winnipeg Regional Health Authority

John O'Neil, PhD, Professor and Dean, Faculty of Health Sciences, Simon Fraser University

Hude Quan, PhD, Professor, Department of Community Health Sciences, Faculty of Medicine, University of Calgary

Chelsea Ruth, MD, FRCPC, Assistant Professor of Paediatrics, Section of Neonatology, Faculty of Medicine, University of Manitoba; Assistant Medical Director Intermediate Care Nursery, Medical Director Manitoba Rh Program

Rob Santos, PhD, Associate Secretary to Healthy Child Committee of Cabinet, Government of Manitoba; Executive Director, Science and Policy, Health Child Manitoba Office; Assistant Professor, Department of Community Health Sciences, Faculty of Medicine, University of Manitoba

Shahin Shooshtari, PhD, Director, Interdisciplinary Health Program, Assistant Professor, Department of Family Social Sciences, Faculty of Human Ecology, Department of Community Health Sciences, Faculty of Medicine, University of Manitoba; Researcher, St. Amant Research Centre

F. Estelle. R. Simons, MD, FRCPC, FAAP, FACAAl, FAAAAI, Professor, Department of Pediatrics and Child Health, Department of Immunology, Faculty of Medicine, University of Manitoba

S. Leonard Syme, PhD, Professor Emeritus, Department of Epidemiology and Community Health/Human Development, School of Public Health, University of California – Berkeley

Laura Targownik, MD, Associate Professor, Department of Internal Medicine, Faculty of Medicine, University of Manitoba

A post-doctoral student from the United States, Dr. Nathan Nickel, joined MCHP for training in the use of the Repository and to assist with several projects at MCHP, including PATHS. As well, several graduate students from the Department of Community Health Sciences have been hired to assist with PATHS literature searches and systematic reviews – Jason Randall, Leah Crockett and Aynslie Hinds.

Critical Care Research Group

MCHP's 2012 deliverable co-led by Dr. Allan Garland (Critical Care Medicine) and Dr. Randy Fransoo (MCHP), The Epidemiology and Outcomes of Critical Illness in Manitoba, provided a unique opportunity to link the clinical ICU database (which captures the majority of all ICU care in the province) with the administrative data already in MCHP's Population Health Research Data Repository.

The power of this combination was evident in the report, and marked the start of a rich new research collaboration between a group of local ICU physician/researchers and MCHP research scientists, focusing on different aspects of critical care. The deliverable has led to two academic papers already published, one in press, and five more in development. It also spawned new research topics that have been funded by U of M, Manitoba Health Research Council, and Canadian Institutes for Health Research grants, and are ongoing at MCHP. These include work on mortality after ICU care, and the use of ICU care by Manitobans with chronic inflammatory diseases.

This group is also now embarking on a national study of sex differences in rates of ICU care and how these are affected by family and social supports, with colleagues from Manitoba, Ontario and BC; this work is funded by the "Technology Evaluation in the Elderly Network."

CNODES (Canadian Network for Observational Drug Effectiveness Studies)

CNODES is an assembly of the top pharmacoepidemiologists across Canada, working collaboratively to conduct post-marketing drug safety and effectiveness studies. CNODES is funded by the Drug Safety and Effectiveness Network (DSEN) which has been established at the Canadian Institutes of Health Research (CIHR) in partnership with Health Canada as part of the federal government's Food and Consumer Safety Action Plan (FCSAP).

Even though prescription drugs undergo safety and effectiveness studies before they are approved, an estimated 10,000 Canadians die each year and 150,000 are hospitalized from adverse drug reactions. Research is being conducted in individual provinces, but the databases used are often not large enough to study rare and serious adverse reactions, drugs used for uncommon diseases, and newly introduced medications.

CNODES is using existing healthcare databases on over 27 million people across Canada and internationally to conduct expedited evaluations of the risks and benefits of certain medications and disseminate this information widely to clinicians, patients and decision makers.

The CNODES Manitoba site leads are Dr. Patricia Martens and Dr. Patricia Caetano, along with others who meet monthly and work on the projects: Dr. Alan Katz, Dr. Colette Raymond, Dr. Colleen Metge, Dr. Dan Chateau, Dr. Laura Targownik, Dr. Salah Mahmud, Shawn Bugden, Silvia Alessi-Severini, Matt Dahl, and Elaine Burland.

To date, there have been six CNODES evaluations; the first one - the Statins AKI project [High-Dose Statins and the Risk of Acute Kidney Injury], co-led by Colin Dormuth (Canadian lead) and Dr. Colette Raymond (Manitoba site lead) - has been completed and results were published in the March 20, 2013 British Medical Journal.

The PPI project [Proton Pump Inhibitors and Community Acquired Pneumonia] (Co-led by Kristian Filion (Canadian lead) and Dr. Laura Targownik (Manitoba site lead) has also been completed. The manuscript was recently accepted, pending revisions, for publication in the Gut journal.



KNOWLEDGE



TRANSLATION:

GETTING THE WORD OUT

Highlights:

- 36th *The Need To Know* Workshop
- 19th Rural & Northern Healthcare Workshop
- 9th Manitoba Health Workshop
- 9th Winnipeg Regional Health Authority Workshop
- 1st Annual Manitoba Government Workshop
- 1st Annual MCHP Legislature Breakfast

Knowledge translation is an integral part of research at the MCHP. We are dedicated to sharing our research findings with and implementing feedback from stakeholders and policy/decision-makers. This process involves a two-way discussion that aims to put health services research into practice and to identify opportunities for further policy-driven research.

Knowledge translation initiatives at MCHP include collaborations, workshops and designed to inform health care planners, ministers and other government staff, health services professionals, the media, and the general public.

INFORMING PLANNERS & STAKEHOLDERS

The Need To Know Team

Since its establishment in 2001, *The Need To Know* Team has enabled a collaboration between MCHP, the Regional Health Authorities (RHAs), and Manitoba Health. This collaboration has provided an opportunity for knowledge exchange and learning between researchers and planners/policy-makers.

The Need To Know Team is led by Dr. Patricia Martens (Director) and Dr. Randy Fransoo (Co-Director). Members of *The Need To Know* Team include MCHP researchers and staff, as well as high-level planners and decision-makers from each RHA and Manitoba Health who are chosen as representatives by their CEOs.

Originally funded through the Canadian Institutes of Health Research (CIHR) Community Alliances for Health Research Program (2001-2006), the meeting expenses have been funded through a series of awards: the national CIHR KT Award (2007-2008), the CIHR/PHAC Applied Public Health Chair Award received by Dr. Martens (2008-2013), and the Gerry McDole Professorship Award in Improved Healthcare Delivery to Rural, Remote and Underserved Population of Manitoba received by Dr. Randy Fransoo (2010-2013).

The Need To Know Team meets in Winnipeg three times a year for two days at a time. These meetings are designed to respond to *The Need To Know* Team goals by including activities relevant to the current and ongoing research projects at MCHP. The fall meeting precedes the annual MCHP Rural & Northern Healthcare Workshop, where *The Need To Know* Team members act as facilitators for roundtable discussions on MCHP deliverables. This year meetings were held on June 18-19, October 15-16 and January 28-29.



“We have found storytelling to be a powerful tool to affect change in decision-making behaviour. *The Need To Know* Team members challenge each other to look for stories [...] in each research report.”

“KT in Action: Manitoba’s The Need To Know Team” by Martens et al. 2006

The Need To Know Team also provides feedback for the selection of research topics for deliverable projects led by MCHP. To date, *The Need To Know* Team has co-authored seven deliverables. Many Team members also sit on advisory groups for other deliverables, bringing their unique RHA perspective.

In the 2012/13 fiscal year, *The Need To Know* Team participated as a co-author or advisory group of the following deliverables:

- “Who Is in Our Hospitals?” (co-author)
- “Manitoba RHA Indicators Atlas 2013” (co-author)
- “Housing and Health in Manitoba: A First Look” (advisory group)

The Need To Know Team was also involved as a regional consultation group for the CIHR “PATHS Equity for Children” projects.

In the 2012/13 fiscal year, the benefits of *The Need To Know* Team extended beyond the realm of collaborative research and knowledge exchange. The well-established relationships and trust among members of *The Need To Know* Team eased the transition of merging the 11 former RHAs into the five new RHAs and establishing new administrative boundaries, as noted by CEOs and team members alike.

Current members of *The Need To Know* Team

- Suzanne Dick (Interlake-Eastern RHA)
- Dr. Karen Robinson (Interlake-Eastern RHA)
- Jo-Ann Welham (Interlake –Eastern RHA)
- Dr. Randy Gesell (Northern RHA)
- Lorraine Larocque (Northern RHA)
- Vivian Salmon (Northern RHA)
- Joy Tetlock (Northern RHA)
- Dr. Shelley Buchan (Southern Health/Santé Sud)
- Jane Curtis (Southern Health/Santé Sud)
- Ales Morga (Southern Health/Santé Sud)
- Jody Allen (Prairie Mountain Health)
- Maggie Campbell (Prairie Mountain Health)
- Michelle Gaber (Prairie Mountain Health)
- Nancy McPherson (Prairie Mountain Health)
- Trish Bergal (Winnipeg RHA)
- Nancy Hughes (Winnipeg RHA)
- Dr. Colleen Metge (Winnipeg RHA)
- Kristin Anderson (Manitoba Health)
- Della Beattie (Manitoba Health)
- Sonia Busca Owczar (Manitoba Health)
- Dr. Patricia Caetano (Manitoba Health)
- Nathan Hoepfner (Manitoba Health)
- Rachel McPherson (Manitoba Health)
- Heather Sparling (Manitoba Health)
- Dr. Patricia Martens (MCHP)
- Dr. Randy Fransoo (MCHP)
- Dr. Kristy Wittmeier (Winnipeg RHA)
- Dr. Elaine Burland (MCHP)
- Heather Prior (MCHP)
- Charles Burchill (MCHP)
- Mark Smith (MCHP)
- Kara Dyck (MCHP)

Past members of *The Need To Know* Team

The Manitoba Centre for Health Policy mourns the loss of a long-time member of *The Need To Know* Team—Catherine Hynes from the old NOR-MAN RHA, the new Northern RHA.

We would like to thank the following people who were part of *The Need To Know* Team in the past year and who have left the team:

- Lorie-Anne Blair (Assiniboine RHA)
- Susan Hunter (Brandon RHA)
- Bonnie Frith (North Eastman RHA)
- Jan Gunness (South Eastman RHA)
- Catherine Hynes (NOR-MAN RHA)
- Laurel Biluk (Interlake RHA)
- Lorraine Dacombe Dewar (Manitoba Health)
- Teresa Mrozek (Manitoba Health)
- Wendy Guenette (MCHP)
- Theresa Daniuk (MCHP)
- Linda Kostiuik (MCHP)

Workshops & Events

Rural & Northern Healthcare Workshop

Over 170 participants attended the day's events, including representatives from all Regional Health Authorities, Manitoba Health, and the Canadian Institute for Health Information. A keynote presentation on "Health system reform: From theory to practice" by Dr. Michael Rachlis set the tone for the workshop. The focus of the workshop was on three MCHP reports: "Projecting Personal Care Home Bed Equivalent Needs in Manitoba Through 2036" by Dr. Dan Chateau, "How Are Manitoba's Children Doing?" by Dr. Marni Brownell, and "Perinatal Services and Outcomes in Manitoba" by Dr. Maureen Heaman. Facilitated roundtable discussions on the reports followed the presentations of these deliverables. These discussions allow participants to dig deep into the results of the report and find data relevant to the stories that unfold in specific regions.



WRHA MCHP Workshop

Approximately 100 participants attended the day's events representing a range of professional health service fields in the Winnipeg RHA.

The day focused on older adult care, as a follow up of the successful discussions about the continuum of care for older adults at the workshop in 2011/12. This workshop was very timely and provided a good medium for partnership development and strategic planning.

The keynote presentations featured two MCHP reports on "Population Aging and the Continuum of Older Adult Care in Manitoba" by Dr. Malcolm Doupe and "Projecting Personal Care Home Bed Equivalents Through to 2036" by Dr. Dan Chateau. Other feature presentations included overviews of the WRHA Rehabilitation and Geriatrics Program and Manitoba's Aging in Place Strategy.

Roundtable discussion focused on identifying and prioritizing steps for the implementation of strategies to restructure and improve the continuum of care for older adults.

In addition to the presentations and discussions about older adult care, MCHP researchers provided previews of two ongoing research projects, on “Who is in our Hospitals?” by Dr. Randy Fransoo and “Supportive Housing in the WRHA: Exploring the Cost” by Dr. Greg Finlayson.



INFORMING GOVERNMENT

MCHP/Manitoba Health Workshop

Nearly 100 people attended this event, with representatives from the Manitoba Health departments of Health Information Management, Primary Health Care, Public Health, Insured Benefits, and many others. The day's keynote presentation was “Adult Obesity in Manitoba: Prevalence, Associations, & Outcomes” by Dr. Randy Fransoo and Dr. Patricia Martens, which was followed by roundtable discussions. Some other MCHP reports were previewed at this workshop, specifically “Understanding the Patterns of Ambulatory Care Use in Manitoba” by Dr. Alan Katz, “How are Manitoba’s Children Doing” by Dr. Marni Brownell, “Health and Social Housing” by Mr. Mark Smith, and “Who’s in Our Hospitals?” by Dr. Randy Fransoo.



MCHP/Manitoba Government Annual Workshop

New this year was the First Annual Knowledge Exchange between MCHP and the Manitoba Government. This event was designed to share research results with many non-health government departments and discuss how these might relate to policy planning. With nearly 100 people in attendance, many government departments were represented, including: Children and Youth Opportunities, Family Services and Labour, Healthy Child, and Education. This workshop focused on social inequalities in children; Dr. Marni Brownell’s “How are Manitoba’s Children Doing?” was the keynote presentation. Roundtable discussions were held to discuss how the results of this report can translate into improving children’s well-being in Manitoba.

INFORMING THE PUBLIC

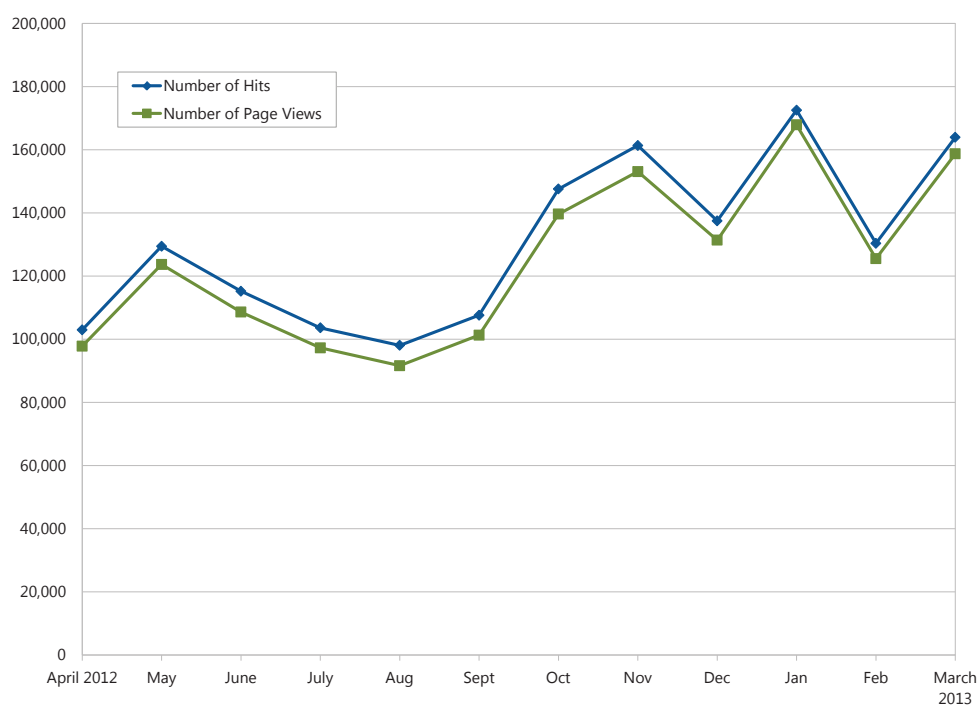
MCHP Website

Highlights:

- 20.5% increase in website traffic
- 1.57 million hits
- 1.50 million page views

In the figure below, the count of ‘hits’ represents each time a webpage or file is loaded on a visitor’s computer. Though most software also count separate hits for each graphic on a webpage, for a more accurate picture of visits, we exclude those counts. Our website traffic followed an upward trend over the past year. Fluctuations tend to mirror things such as time of year (e.g. start and end of the academic year, holidays, grant deadlines) as well as when new major resources such as newly released reports are added to the website.

In conjunction with the website, MCHP is active on Twitter, Facebook and Instagram. The objective of these social media networks is to engage with MCHP followers and fans, posting MCHP updates in real time and informing the public on projects, deliverables and awards. They also provide an opportunity to promote and highlight the achievements of MCHP to audiences following the centre.



Twitter: @mchp_umanitoba

Facebook: facebook.com/mchp.umanitoba

In the News

A number of MCHP researchers were interviewed by various media agencies for their expertise in health policy and its related research, as well as upon release of deliverables. Additionally, some MCHP researchers wrote articles or appeared in videos to disseminate their knowledge to the general public. A complete list of interviews, articles, media features and releases is available in **Appendix 6**.

EVIDENCENETWORK.CA

EvidenceNetwork.ca is a non-partisan web based project that makes the latest evidence on controversial health-policy issues available to the Canadian news media. EvidenceNetwork.ca was co-founded by Noralou Roos and Sharon Singer in April 2011, and links journalists with health policy experts to provide access to credible, evidence-based information. It aims to ground the healthcare dialogue and debate in credible, balanced and timely evidence.

EvidenceNetwork.ca has over 70 expert advisors who are able to answer questions for the media with research evidence on Canadian health policy issues. These experts were chosen based on their standing in the health policy research/academic community, publishing record, ability to communicate in lay language, the absence of partisan ties including political activity and lobbying affiliations. The experts are organized into eight subject areas: Aging Population, Health is More than Healthcare, Healthcare Costs and Spending, Patient Financing of Healthcare, Private, For-Profit Solutions to Funding and Delivery, Sustainability, More is Not Always Better and Waiting for Care, with four new areas being added (Mental Health, Obesity, Pharmaceutical Policy and International Health Systems).

Four of MCHP's Research Scientists are EvidenceNetwork.ca experts: Dr. Malcolm Doupe (Aging Population, Nursing Homes, Home Care) Dr. Alan Katz (Primary Care Delivery and Disease Prevention), Dr. Marni Brownell (Social Factors in Children's Health), Dr. Noralou Roos (Poverty and Well Being).

Much of their research communication is accomplished through OpEds (opinion editorials). Since its inception, EvidenceNetwork.ca experts have written over 200 different OpEds which have been published over 550 times in major media publications across the country, including in the Globe and Mail, National Post, Toronto Star, Huffington Post, Hill Times, Yahoo News, Le Devoir, Le Soleil, and most other broadsheets, in addition to hundreds of publications in smaller community, rural, niche and online publications. Many of these have been published in both official languages, allowing for a truly national healthcare dialogue and debate.

The following OpEds were written by MCHP Scientists this past year.

- Why medical screening still has value / Le dépistage préventif reste utile, mais pas dans toutes les situations (Dr. Alan Katz)
- Providing the right amount of healthcare / Prodiguer la bonne quantité de soins de santé (Thérèse Stukel and Dr. Noralou Roos)
- Frequent Users of Emergency Care Signal Need for Health Care Reform (Dr. Malcolm Doupe)
- Canada falling short on Foster Care (Dr. Marni Brownell)
- Why Medical Screening Still has Value but Not Everyone Should be Screened (Dr. Alan Katz)



EDUCATIONAL CONTRIBUTIONS AND INVESTMENT

Highlights:

- 42 Supervised Graduate Students
- Three Students Funded by a MCHP award
- Eight Students Winning Awards
- 24 Thesis Projects Accessing the Repository
- Five Undergraduate Courses Taught

MCHP's commitment to health research extends to the next generation of researchers. MCHP provides supervision and training to undergraduate and graduate students in the fields of epidemiology and health services research, as well as educational resources to both students and professionals in these fields. MCHP researchers are also actively involved in connecting with students, supporting them in their first-hand experience with health services research, and recognizing their accomplishments.

Student Outreach

Researchers at MCHP strive to promote active opportunities for students to do research at MCHP. The Research Awards “Meet and Greet” event in 2013 became part of our initiative. The event provided an opportunity for researchers at MCHP to connect with students who are interested in working on projects related to health research. Efforts to provide more exposure to policy-driven health research also include the involvement of medical students in short-term positions at MCHP and/or attendance of research presentations.

Student Supervision by MCHP Research Scientists

Student supervision is another core activity of full-time researchers at MCHP. Supervising and mentoring students at all levels of studies allows MCHP to help train and support the next generation of knowledgeable and capable professionals.

This past year, researchers were involved in mentorship of medical clerkships and supervision of undergraduate projects, master's projects, and doctorate dissertations.

In addition to supervising 34 graduate students in the University of Manitoba in 2012/13, MCHP researchers were also involved with graduate student supervision elsewhere in Canada and abroad. Mentorship of undergraduate students included eight medical students enrolled in the Multiple Specialty Rotation Clerkship Program and three medical students participating in the MCHP Elective Clerkship Rotation of the Community Health Sciences Educational Program. The elective clerkship provides an opportunity to students to observe and participate in project work at MCHP for a short period of time. The Multiple Specialty Rotation allows students to work on a research project. Additionally, one medical student; Aaron Trachtenberg, was involved with research at MCHP in the role of a summer student in 2012/13.

Other Graduate Student Awards

Graduate Students Supervised by MCHP Researchers

Aynslie Hinds, PhD Student

Community Health Sciences, Faculty of Graduate Studies

Advisor: Dr. Patricia Martens

“Evaluation of the Community Wellness Initiative for Support of Tenants’ Mental Health and Wellness”

- *Graduate Students Association Award*



Taruwona Manyanga, MSc Student

Community Health Sciences, Faculty of Graduate Studies

Advisor: Dr. Randy Fransoo

“Does the Increase in BMI Associated with Initiation of Insulin Therapy Among Youth Newly Diagnosed with Type 1 Diabetes Predict Overweight or Obesity at Age 18?”

- *Western Regional Training Centre (WRTC) Stipend*



Elizabeth Wall-Wieler, MSc Student

Community Health Sciences, Faculty of Graduate Studies

Advisor: Dr. Leslie Roos

“The effects of duration-weighted exposure to neighborhood on health and education outcomes in adolescence”

- *Western Regional Training Centre (WRTC) Stipend*



Shauna Zinnick, MSc Student

Community Health Sciences, Faculty of Graduate Studies

Advisor: Dr. Malcom Doupe

“Developing and Implementing a Validated Tool to Define the Types of Care Provided by Nursing Home Health Care Aides, and to Allocate Their Time Spent Doing These Different Activities”

- *Western Regional Training Centre (WRTC) Stipend*



FINANCIAL REPORT

In addition to the \$2.325 million in funding received from Manitoba Health (as detailed in Table 1), MCHP researchers continued to be successful in receiving career awards and research grants in peer-reviewed competitions. MCHP funds available from these other sources for 2012/2013 fiscal year totaled approximately \$3.396M (Figure 2).

Endowments/Gifts

Endowed Chair in Child Health Awarded by the Department of Science, Technology, Energy and Mines, Province of Manitoba to support an outstanding child health researcher to coordinate and lead child health research at MCHP.

Evelyn Shapiro Health Services Research Award Provides support to a graduate student in the Faculty of Graduate Studies, specifically in the Faculty of Medicine, whose thesis research will use the Population Health Research Data Repository housed at MCHP.

Personnel Awards

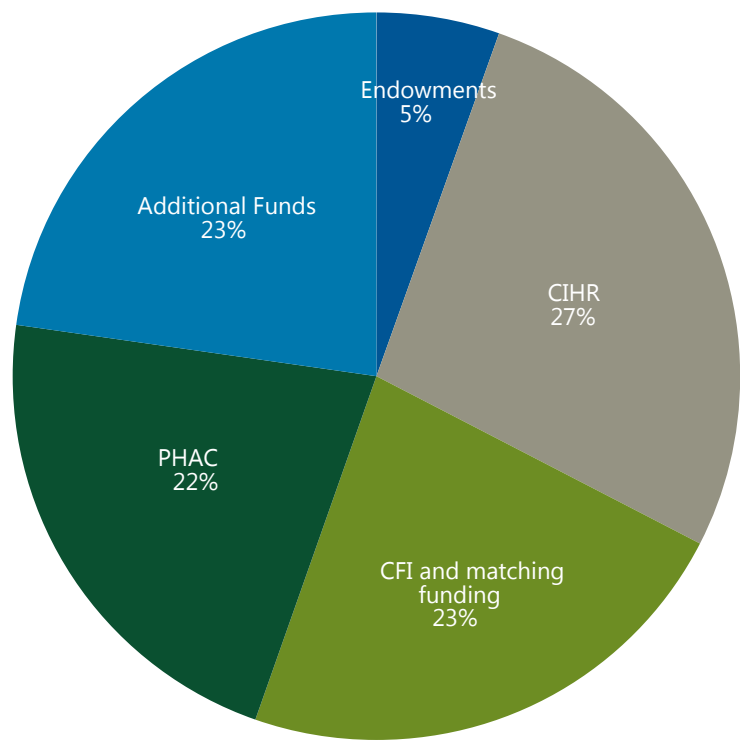
- Dr. Randy Fransoo, The Gerry McDole Professorship, 2010-2013, \$50,000 per year
- Dr. Patricia Martens: CIHR/PHAC Applied Public Health Chair, 2008–2013, \$120,000 per year
- Dr. Alan Katz: Manitoba Research Chair in Primary Prevention, 2013-2017, \$100,000 per year

Manioba Centre for Health Policy Yearly Budget - April 1, 2012 to March 31, 2013

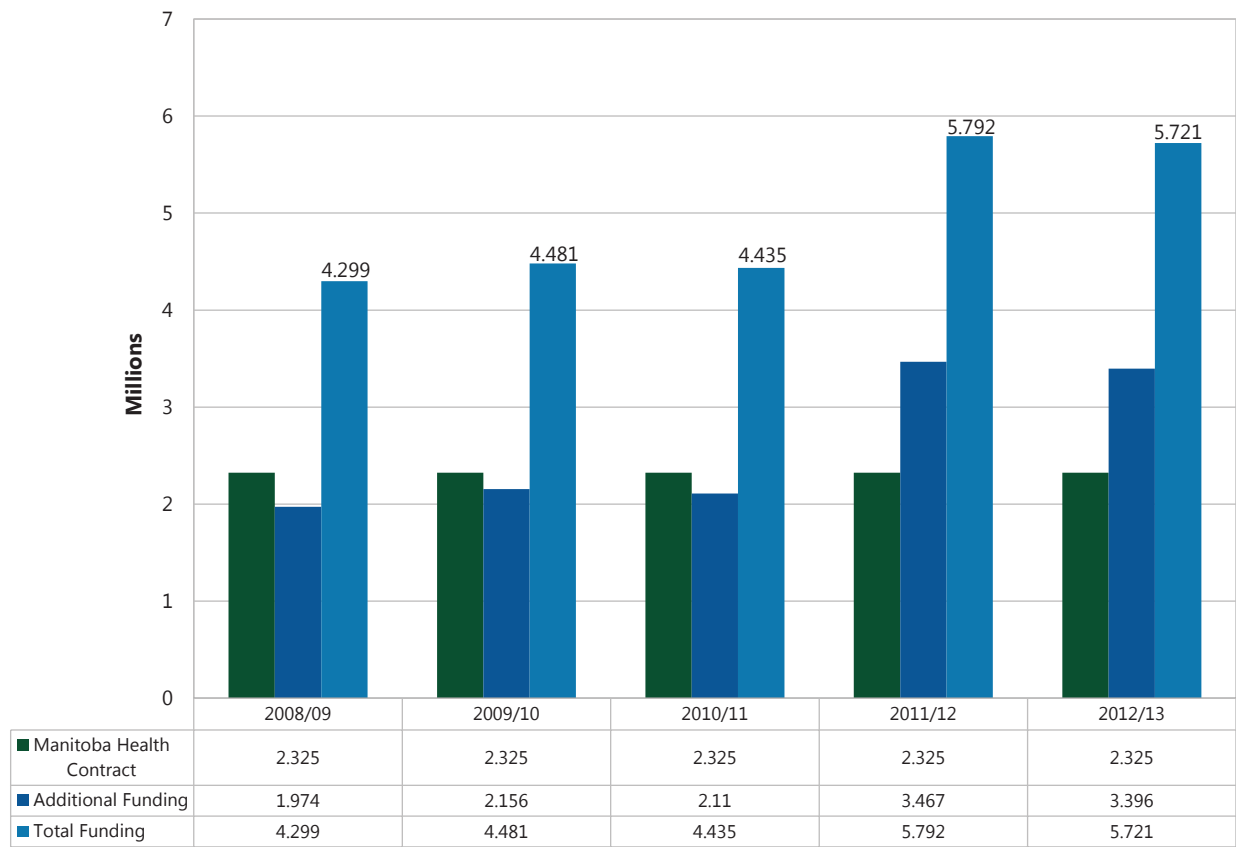
Salaries	
Staff	\$1,490,384.42
Staff Benefits	254,944.15
Payroll Levy	33,475.44
External Contracts	29,766.00
Transfer to CFI Matching*	<u>159,188.65</u>
Salaries Subtotal	<u>1,967,758.66</u>
Other Expenditures	
General Office Expenses	210,112.17
Equipment	
Purchases	24,976.48
Maintenance	40,723.54
Travel	47,035.33
Transfer to CFI Matching	<u>34,394.65</u>
Other Expenditures Subtotal	<u>\$357,242.17</u>
Total Expenditures	<u>\$2,325,000.83</u>

*These funds were approved (June 1, 2005) to be transferred for use as a *Partner Contribution* to the Centre's CFI grant

Additional Funds in 2012/13



MCHP Administered Funding



APPENDIX 1: PUBLICATIONS & PRESENTATIONS

Publications & Presentations

All researchers who use data from the Repository at MCHP are requested to inform MCHP of any publications and conference presentations from their work. This year, there were 80 publications and 78 presentations and published abstracts.

Academic Papers, Books, Book Chapters, Reports

2013

Balogh R, Ouellette-Kuntz H, Brownell M, Colantonio A. Factors associated with hospitalizations for ambulatory care sensitive conditions among persons with an intellectual disability-a publicly insured population perspective. *Journal of Intellectual Disability Research* 2013;57(3):226-39.

Bayrampour H, Heaman M, Duncan K, Tough S. Predictors of perception of pregnancy risk among nulliparous women. *Journal of Obstetric, Gynecologic and Neonatal Nursing* (In press).

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Brennan SL, Leslie WD, Lix LM. Associations between adverse social position and bone mineral density in women aged 50 years or older: data from the Manitoba Bone Density Program. *Osteoporosis International* 2013, February 22 [Epub ahead of print].

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Burland E, Martens P, Brownell M, Doupe M, Fuchs D. The evaluation of a fall management program in a nursing home population. *Gerontologist* 2013, Jan 25 [Epub ahead of print].

Chochinov HM, Martens PJ, Prior HJ, Kredentser MS. Comparative health care use patterns of people with schizophrenia near the end of life: A population-based study in Manitoba, Canada. *Schizophrenia Research* 2012;141(2-3):241-246. Also featured on *Psychology Progress* (March 7, 2013) as a key paper.

Dormuth CR, Hemmelgarn BR, Paterson JM, James MT, Teare GF, Raymond CB, Levy AR, Garg AX, Ernst P, for the CNODES investigators. High Potency Statins and Acute Kidney Injury: A Multicenter Retrospective Observational Analysis of Administrative Databases. *BMJ* 2013 (In Press).

Fransoo R, Bucklaschuk J, Prior H, Burland E, *The Need To Know* Team, Martens P. Social gradients in surgical sterilization rates: Opposing patterns for males and females. *Journal of Obstetrics and Gynaecology of Canada* 2013 (In Press).

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Hopkins R, Tarride J-E, Leslie WD, Metge C, Lix L, Morin S, Finlayson G, Azimae M, Pullenayegum E, Goeree R, Adachi JD, Papaioannou A, Thabane, L. Estimating the excess costs for patients with incident fractures, prevalent fractures, and non-fracture osteoporosis. *Osteoporosis International* 2013;24(2):581-93.

Katz A, Enns J. Prevention and screening for cancer in primary health care. In: Miller AB ed. *Epidemiologic Studies in Cancer Prevention and Screening, Statistics for Biology and Health*. New York, NY: Springer Science+Business Media; 2013: 397-404.

Lau D, Eurich ET, Majumdar SR, Katz A, Johnson JA. Effectiveness of influenza vaccination in working-age adults with diabetes: A population-based cohort study. *Thorax* 2013 March 27. [Epub ahead of print].

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Leslie WD, Morin SN, Lix LM. Rate of bone density change does not enhance fracture prediction in routine clinical practice. *Journal of Clinical Endocrinology & Metabolism* 2012 January 25, in press.

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Majumdar SR, Morin SN, Lix LM, Leslie WD. Influence of recency and duration of glucocorticoid use on bone mineral density and risk of fractures: Population-based cohort study. *Osteoporosis International* 2013 [Epub ahead of print].

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2012

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Presentations and Published Abstracts

2013

Karaceper M, Brownell M, Casey R, Chakraborty P, Coyle D, Davies C, Dodds L, Feigenbaum A, Fell D, Greenberg C, Guttman A, Kahn A, Kronick J, Laberge AM, Mhanni A, Miller F, Nakhla M, Prasad C, Vallance H, Wilson B, Wilson K, Potter BK. The epidemiology and health system impact of medium-chain acyl-CoA dehydrogenase deficiency among affected children and those with false positive newborn screening results in Ontario, Canada. American College of Genetics and Genomics Annual Meeting, Phoenix AZ, March 21, 2013.

Brownell M. Linking EDI to other population-based data: the Manitoba experience. Early Childhood Indicators – EDI: From Data to Action. Montreal QC, February 1, 2013.

Fransoo R. Obesity, health status, and health service use: Expected and unexpected findings from a large, representative study in Manitoba. Department of Community Health Sciences Colloquium, University of Manitoba, Winnipeg, MB, February 13, 2013.

Goertzen T, Edwards J, Smith P, Lavallee B, Katz A. Primary Health Care in Manitoba – Panel Presentation. Facilitating the Dialogue: What is the Role of the Faculty of Medicine, University of Manitoba in Primary Health Care for First Nations, Metis & Inuit Communities, Winnipeg, MB, March 14, 2013.

Heaman MI, Martens PJ, Brownell MD, Chartier MJ, Helewa ME, Thiessen KR, Derksen SA. (2012). Inequities in utilization of prenatal care: A population-based study in Manitoba. Canadian Institutes of Health Research, Institute of Gender and Health. Advancing Excellence in Gender, Sex, and Health Research. Abstracts for oral presentations, O19.4, p. 33.

Hinds A, Distasio J, Martens P, Smith M. Health status and service use in homeless individuals with mental illness: Consistency between self-report and administrative health records in the At Home/Chez Soi Multi-Site Trial. Abstract. *Chronic Diseases and Injuries in Canada* 2013;33(2):107

Katz A. Take Charge: Your Future Lies in Your Hands. Dementia Care 2013, Winnipeg, MB, March 5, 2013 (Invited Keynote Speaker).

Martens PJ, Raymond C, Targownik L, Alessi-Severini S, Bugden S. CNODES – A leading-edge approach to researching the post-marketing safety and effectiveness of Canadian pharmaceuticals. Pharmacy Grand Rounds, University of Manitoba, Winnipeg, MB, January 31, 2013.

Martens PJ. Invited plenary speaker. Mind the gap – bridging the gap between research and policy. Manitoba Child and Youth Rehabilitation Research Day. Winnipeg, MB, January 25, 2013.

2012

Bartlett JG, Martens P, Neufeld R, Carter S, Garner S, Sanguins J, Cook C, Elias B, Hoepfner N. Knowledge Networks: An Approach to Bridging the Gap for Metis in Manitoba. 5th Biennial International Network of Indigenous Health Knowledge and Development (INIKHD). University of Queensland, Brisbane, AU, September 24-28, 2012.

Brownell M. How are Manitoba's Children Doing? Evidence to Action: First Annual Knowledge Exchange Between MCHP & Manitoba Government [keynote]. Winnipeg, MB: December 14, 2012.

Brownell M. Overview of Key Research Findings Using "non-Health" Datasets in the MCHP Repository. Evidence to Action: First Annual Knowledge Exchange Between MCHP & Manitoba Government. Winnipeg, MB, December 14, 2012.

Brownell M. How are Manitoba's Children Doing? Maternal and Child Health Conference: Leadership to Action. Winnipeg, MB, December 11, 2012.

Brownell M. The Manitoba Health Baby Program: does it have an impact on neonatal outcomes? Dr. J.M. Bowman Neonatal Research Symposium, Winnipeg MB, November 29, 2012 [invited].

Brownell M. Using linked data to study birth defects: Examples from the Manitoba Centre for Health Policy. 39th International Clearinghouse for Birth Defects Surveillance and Research (ICBDSR) and 10th Canadian Congenital Anomalies Surveillance Network (CCASN) Joint Annual Scientific Meeting 2012, Ottawa, ON, Oct 31, 2012 [invited].

Brownell M. How are Manitoba's Children Doing? 19th Annual MCHP Rural and Northern Healthcare Workshop, Winnipeg MB, Oct 16, 2012. [invited]

Brownell M. How are Manitoba's Children Doing? Briefing to the Manitoba Healthy Child Committee of Cabinet, Winnipeg, MB, September 10, 2012.

Brownell M. How are Manitoba's Children Doing? Briefing to Manitoba Health, Winnipeg, MB, July 13, 2012.

Brownell M. How are Manitoba's children doing? Presented at *the Need to Know* Team Meeting No. 34, Winnipeg, MB, June 18, 2012.

Brownell M, Chartier M, Au W, Schultz J. Improving perinatal outcomes: Evaluation of the Manitoba Healthy Baby Program. Presented at the 2012 annual CAHSPR conference, Montreal, QC, May 31, 2012.

Brownell M. Using the data repository at the Manitoba Centre for Health Policy to study children's health and developmental trajectories. Presented at the Manitoba Institute of Child Health Research Rounds, Winnipeg MB, May 24, 2012.

Brownell M, Chartier M, Santos R, Ekuma O, Au W, Sarkar J, Koseva I, Guenette W, Burland E. Putting the pieces together: Using linked administrative databases to examine predictors of school performance in Manitoba children. Presented at the International Data Linkage Conference 2012, Perth, AU, May 2, 2012.

Chartier MJ, Cooper M, Volk J, Attawar D. Towards Flourishing: Improving the Mental Health of Families in Manitoba's Families First Home Visiting Program. Presentation at Manitoba Centre for Health Policy – Government of Manitoba Knowledge Exchange Day, Winnipeg, Manitoba, December 14, 2012.

Chartier MJ, Finlayson G, Prior H, McGowan K, Chen H, de Rocquigny J, Ouelette C, Walld R, Gousseau ML. 'état de la santé et de l'utilisation des services de santé des francophones du Manitoba. Presented to Rendez-vous 2012. Ottawa, ON, November 22, 2012.

Chartier MJ, Finlayson G, Prior H, McGowan K, Chen H, de Rocquigny J, Ouelette C, Walld R, Gousseau ML. 'état de la santé et de l'utilisation des services de santé des francophones du Manitoba. Presented to the Annual General Meeting of the Conseil communautaire en santé. Winnipeg, MB, November 8, 2012.

Chartier MJ, Cooper M, Volk J, Attawar D. Towards Flourishing: Improving the Mental Health of Families in Manitoba's Families First Home Visiting Program. Presentation at Manitoba Centre for Health Policy, Winnipeg, MB, June 6, 2012.

Clouston K, Katz A, The Manitoba Primary Care Research Network (MaPCReN): The Conception of a Practice Based Research Network in Manitoba, Canada, NAPCRG Practice-based Research Network Conference, Bethesda, MD, June 2012

Elias B, Hall M, Hong SP, Hart L, Martens P. Infant mortality: Persistent differences between First Nations and All Other Manitobans (Canada). Accepted as a poster presentation at the International Congress on Circumpolar Health, Fairbanks, AK. August 5-10, 2012.

Elias B, Hall M, Hong SP, Hart L, Chartrand C, Martens P. Diabetes and income inequality among Manitoba, Canada, First Nations Adults. Accepted as a poster presentation at the Society for Epidemiologic Research. Minneapolis, MN, June 27 – 30, 2012.

Fransoo R, Garland A, Olafson K, Ramsey C, Yogendran M, Chateau D, McGowan K-L. How many ICU beds does a province need? CAHSPR conference, Montreal, QC, May 2012.

Gilbert R, Fluke J, O'Donnell M, Gonzalez-Izquierdo A, Brownell M, Gulliver P, Janson S, Sidebotham P. Child maltreatment: variation in trends and policies in six developed countries. European Scientific Association on Residential and Foster Care (EUSARF), Glasgow, SCT, September 7, 2012.

Gilbert R, Fluke J, O'Donnell M, Gonzalez-Izquierdo A, Brownell M, Gulliver P, Janson S, Sidebotham P. Child maltreatment: variation in trends and policies in six developed countries. BAPSCAN symposium, Belfast, IRL, April 18, 2012.

Gregory PA, Heaman MI. Factors related to women's experiences and satisfaction with prenatal care. Canadian Institutes of Health Research, Institute of Gender and Health international conference: Advancing Excellence in Gender, Sex, and Health Research, Montreal, QC, October 29-30, 2012.

Halas G, Katz A, De Leon-Demará K, MacDonald J, Gregory D. Describing the Work of Nurse Practitioners: Integrating Approaches From Nursing and Medicine. North American Primary Care Research Group (NAPCRG), New Orleans, LA, December 2012.

Heaman M. Maternal stress and poverty: Do they impact health service use and pregnancy outcomes? Dr. J.M. Bowman Neonatal Research Symposium, Winnipeg, MB, November 29, 2012.

Heaman MI, Martens PJ, Brownell MD, Chartier MJ, Helewa ME, Thiessen KR, Derksen SA. Inequities in utilization of prenatal care: A population-based study in Manitoba, Canada. European Public Health Conference, Malta, November 8, 2012.

Heaman MI, Martens PJ, Brownell MD, Chartier MJ, Helewa ME, Thiessen KR, Derksen SA. Inequities in utilization of prenatal care: A population-based study in Manitoba. CIHR's Advancing Excellence in Gender, Sex and Health Research, Montréal, QC, October 29-31, 2012.

Heaman M, Knight E. Reducing inequities in access to and use of prenatal care in the Winnipeg Health Region. Department of Obstetrics, Gynecology and Reproductive Sciences Grand Rounds, Winnipeg, MB, September 19, 2012.

Heaman MI, Kingston DA, Brownell MD, Helewa ME, Derksen SA, McGowan KL. Factors associated with preterm birth: A population-based study in Manitoba. 25th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER), June 27, 2012.

Martens PJ, Katz A. MCHP – a local resource, an international reputation (dressed for success!). Faculty of Medicine Grand Rounds, University of Manitoba, Winnipeg, MB, December 3, 2012.

Martens PJ. Invited plenary speaker and 2012 recipient of the lectureship. Dressed for success: Policy-relevant population health research. Una Ridley Health Sciences Lecture 2012, Lethbridge, AB, Nov. 21, 2012.

Martens PJ. What works in changing population health, and what evidence do you need? WRHA Support Services Workshop, Winnipeg, MB, November 2, 2012. Invited guest speaker.

Martens PJ. Leadership: my perspectives as a woman leader. Leadership: An Interdisciplinary Approach. University of Manitoba course, Winnipeg, MB, October 25, 2012. Invited guest lecturer. (Professor: Dr. Stan Amaldas)

Martens PJ. CNODES – Canadian Network of Observational Drug Effect Studies. Drug Safety and Effectiveness Network Meetings, Ottawa, ON, October 19, 2012.

Martens PJ. Breastfeeding: a public health imperative. 22nd National Breastfeeding conference – Breastfeeding, A Public Health Imperative, Toronto, ON, October 18, 2012. Invited Plenary Speaker.

Martens PJ. MCHP – Who we are and what we do. Manitoba Legislature Breakfast for Members of the Legislative Assembly (MLAs) and Deputy Ministers, Winnipeg, MB, October 9, 2012.

Martens PJ. MCHP – who we are and what we do. Visit by Australian Aboriginal health group (Telethon Institute, Aboriginal Health Council of WA, Mawarnkarra Health Service, Derby Aboriginal Health Service), Winnipeg, MB, October 11-13, 2012.

Martens PJ. Mind the gap ... over time! Cautions in measuring changes in health equity. Department of Community Health Sciences Colloquium Series, Winnipeg, MB, October 5, 2012.

Martens PJ. Dressed for success in data linkage research relevant to policy and planning. ICES 20th Anniversary Celebrations. Toronto, ON, October 1, 2012. Invited Plenary.

Martens PJ. PATHS Equity for children: A program of research into what works to reduce the gap for Manitoba's children. Baby Friendly Manitoba Conference, Winnipeg, MB, September 21, 2012.

Martens PJ. MCHP – who we are and what we do. Visit by Swansea University, Wales and by Population Data BC groups. Winnipeg, MB, September 13, 2012.

Martens PJ. Dress for Success in Manitoba: an orientation for CHS students to MCHP's three pillars. Department of Community Health Sciences Orientation Sessions, Winnipeg, MB, September 5, 2012.

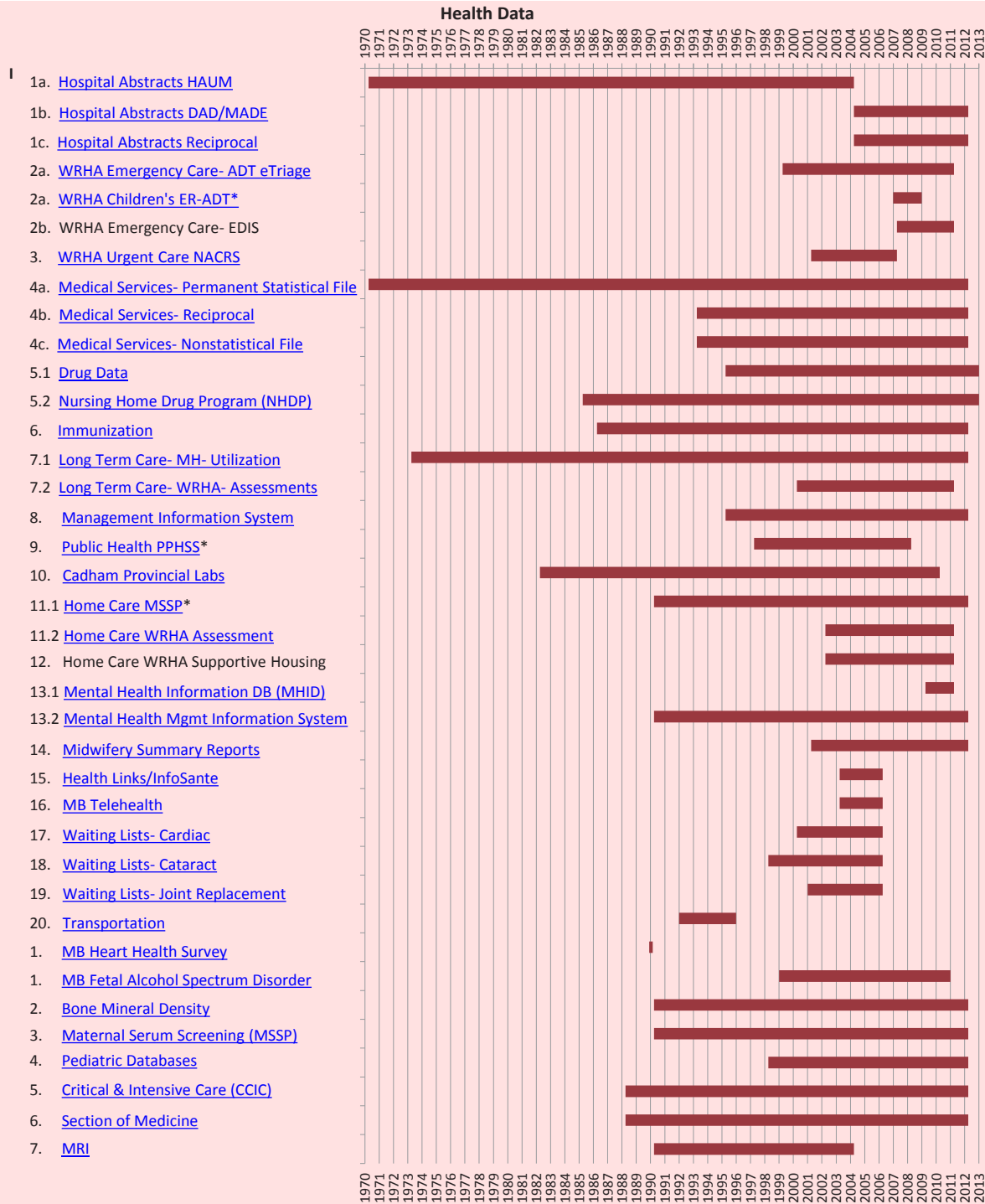
Martens PJ, Smith M, Finlayson G, Prior H, Taylor C, Burchill C, Dunn J, Soodeen RA, Guenette W, Hinds A. Is living in social housing associated with better or worse outcomes in preventive care? A Manitoba population-based study. Accepted as an oral presentation at the CPHA National Conference, Edmonton, AB, June 10-13, 2012.

Martens PJ. The Manitoba Centre for Health Policy: Dressed for success in data linkage research relevant to policy and planning. Accepted as an oral presentation (plenary) at the International Data Linkage Conference. Perth, AU, May 2-4, 2012.

Martens P, Brownell M, Au W, Prior H, MacWilliam L, Schultz J, Guenette W. Is there a more visual way to display socioeconomic inequities in health outcomes? The Lorenz Curve as a tool for researchers and decision-makers. Presented at the International Data Linkage Conference, Perth, AU, May 2, 2012.

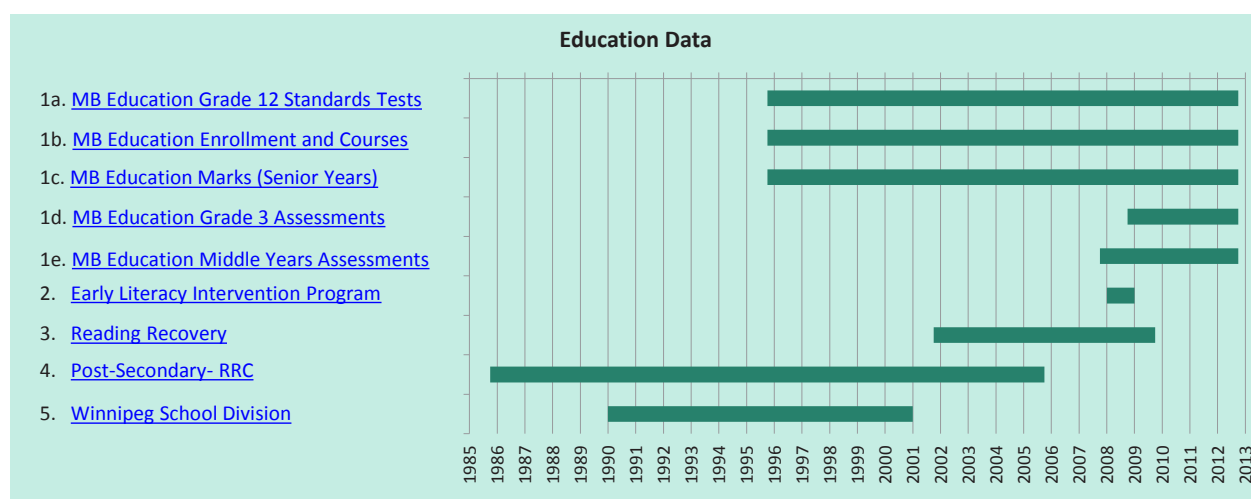
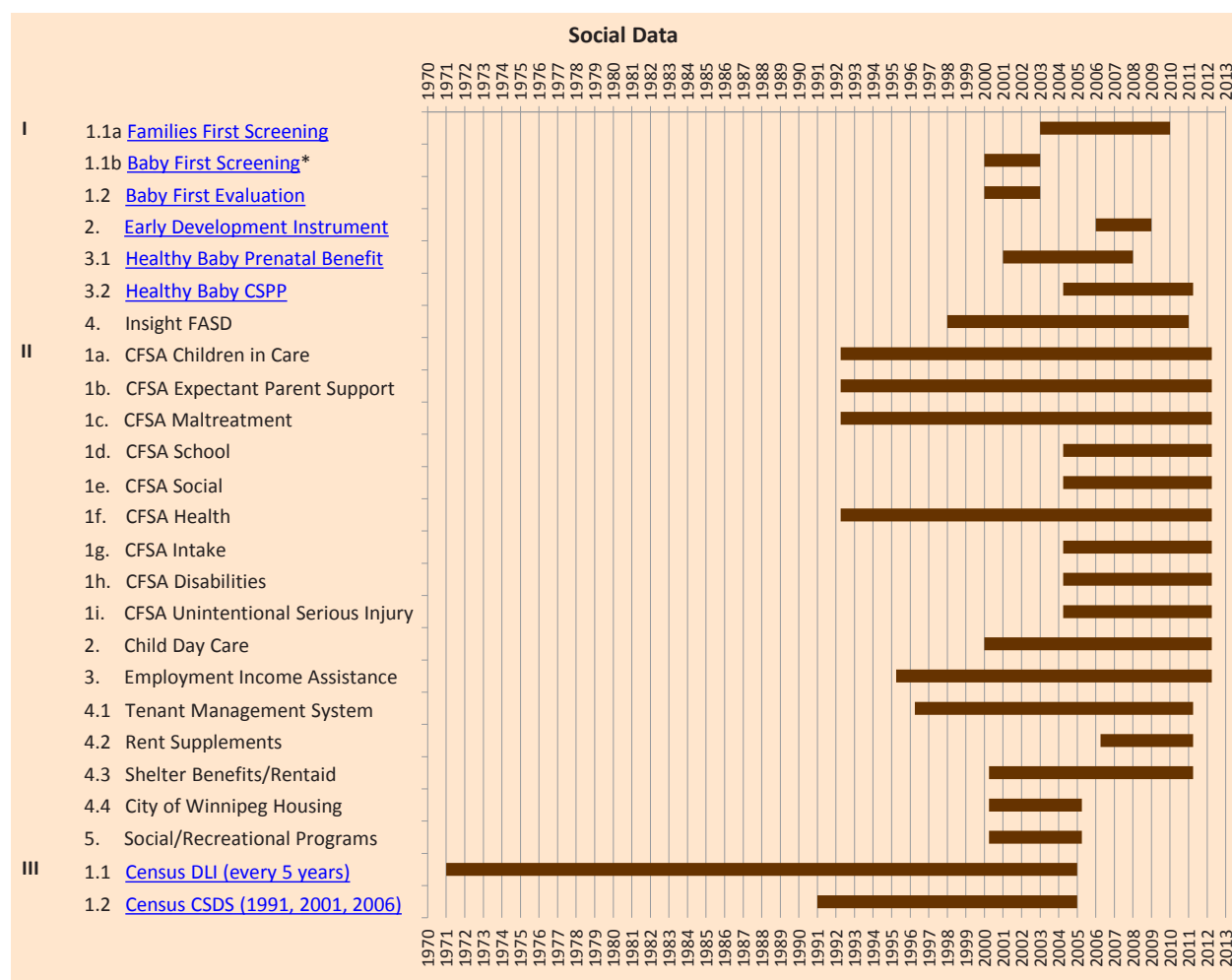
Nickel NC, Taylor EC, Labbok MH. Experiences with limiting pacifier use during the hospital stay: A multi-site qualitative study of nursing staff members and medical providers. Oral Presentation. 2012 Annual Meeting & Exposition of the American Public Health Association, San Francisco, CA, October 27-31, 2012.

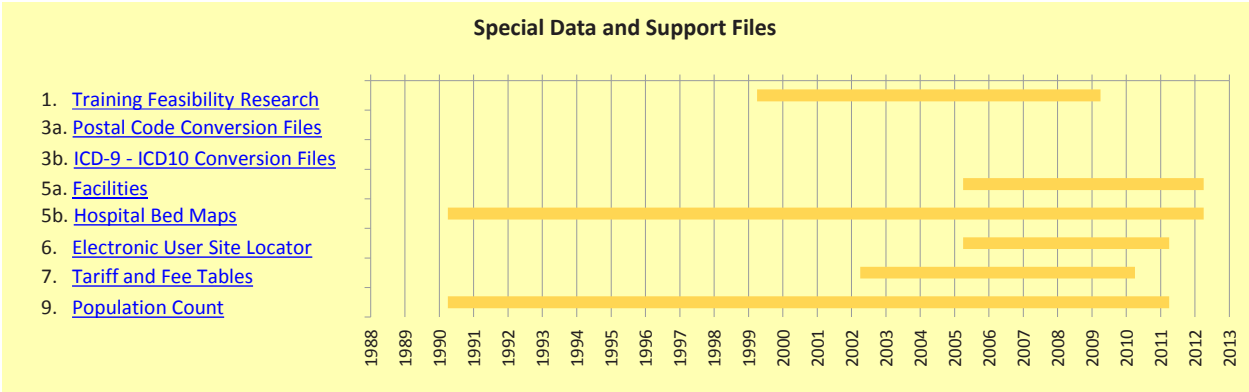
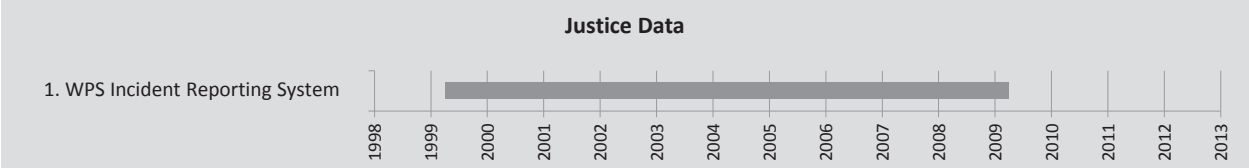
APPENDIX 2: POPULATION HEALTH RESEARCH DATA REPOSITORY: AVAILABLE YEARS OF DATA



¹ Data years are displayed according to calendar year (ending Dec. 31 of the given year). Not all repository data is acquired at the same regular intervals and much of the repository data is obtained according to fiscal year (April 1-March 31 of the next year). Available fields and coding rules may differ from year to year for many data files. Examples include changes in legislation, ICD coding classifications, changes in CMG coding, and the introduction of new computer or software resources over time. The numbering of data corresponds with the Data Repository Data List.

* This data is not available in its current form beyond the last year shown in this chart. There may be alternative sources for some of the discontinued information (for example EDIS replaces ADT).





Distasio J, Sareen J, Thomson M, et al. \$3,750,000; 2009-2013. Research Demonstration Project in Homelessness and Mental Health. Mental Health Commission of Canada.

Doupe M, Martens PJ, Kozyrskyj A, et al. \$56,425; 2007-2013. Performing Activities of Daily Living Tasks: Determining Why Some Nursing Home Residents Experience Declines in Function. MHRC.

Doupe M, Palatnick W, Snider C, et al. 2012-2013. Factors Affecting Patient Flow in Winnipeg Emergency Departments. Faculty of Medicine.

Elias B, Martens PJ, Mignone J, et al. \$1,000,000; 2006-2013. Manitoba First Nations Health Care Report: A Collaborative Network Project to Understand Health Disparities –Indicators of Population Health Status for Registered First Nations People Living in Manitoba.

Forget E, Roos NL, Hum D, et al. \$181,341; 2005-2013. The Town with No Poverty: The Long-term Consequences of a Canadian Guaranteed Annual Income Social Experiment. CIHR.

Fransoo R, Prior H. \$7,500; 2010-2013. Sex Differences in Death Rates after Heart Attack over 20 Years. University of Manitoba Research Grants Program.

Garland A, Blouw M, Yogendran M. \$7,225.00; 2013. Determinants of Short-term vs Long-term Survival after Critical Illness. U of M Research Grants Program (URGP).

Garland A, Marrie RA, Fransoo R, et al. \$75,925; 2011-2013. The Interface between Chronic Inflammatory Disease and Critical Illness: A Pilot Study. HSC Foundation and MHRC.

Heaman M, Kingston D, Brownell M, et al. \$30,000; 2010-2013. Pathways between Pre- and Post-natal Maternal Psychological Distress and Childhood Anxiety. Manitoba Institute of Child Health and the Children's Hospital Foundation of Manitoba (Operating Grant).

Heaman M, Martens PJ, Brownell M, et al. \$100,000; 2009-2013. Predictors and outcomes of prenatal care: vital information for future service planning. CIHR Maternal & Child Health Operating Grant.

Hitchon C, Peschken C, Katz A, et al. \$35,000.00; 2011-2013. Health Care Use and Costs in Rheumatoid Arthritis. Health Sciences Centre Foundation.

Hitchon C, Peschken C, Katz A, et al. \$35,000; 2012 -2013. The Burden of Rheumatoid Arthritis and Systemic Autoimmune Rheumatic Disease in Manitoba First Nations People: A Pilot Study. HSCF.

Hobson D, Leslie W, Lix L, et al. \$53,150; 2007-2013. Who Isn't Receiving Care in Manitoba? A Study of Variation in the Prevalence and Incidence of Individuals with Parkinson's disease and their Patterns of Medical Care in Manitoba, 1984-2006. National Parkinson Foundation Comprehensive Care Award.

Junaid A, Taylor C, Azimae M. \$25,000.00; 2010-2013. Efficacy of Intensive Management of Peripheral Arterial Disease versus Usual Care. University of Manitoba, Internal Medicine.

Jutte D, Boyce T, Syme L, et al. 2004-2013. The Apgar Score as an Early Measure of Resilience.

Katz A, Green M, Lavoie J, et al. \$99,975; 2010-2013. Impact of policy guideline variation on outcomes of novel H1N1 influenza in Aboriginal communities in BC, Manitoba, and Ontario. CIHR.

Katz A, Lobchuk M, Martens PJ, et al. \$1,469,086; 2007-2013. CIHR / Cancer Care Manitoba Team in Primary Care Oncology Research. Access to Quality Cancer Care. CIHR New Emerging Team Grant.

Katz A, Stukel T, Bogdanovic B, et al. \$1,460,779; 2008-2013. Healthcare System Sustainability through Longitudinal Efficiency: Improved Quality and Lower Costs. CIHR.

Lix L, Quan H, Kephart G, et al. 2012-2013. Completeness of Physician Billing Claims Administrative Health Databases in Canada. University of Saskatchewan.

Logsetty S, Sareen J, Doupe M, et al. \$35,000; 2011- 2013. Novel Linkages between Clinical Files and Administrative Health Care Records in Manitoba: The Life Course in Mental Illness. HSCF.

Mahmud S, Elliot L, Ronald A, et al. \$152,856; 2012-2013. Effectiveness of the GSK Pandemic H1N1 Influenza Vaccines in Preventing Hospitalization for Influenza and Pneumonia. GSK.

Mahmud S, Mostaco-Guidolin L, Ronald A, et al. 2012-2013. The Epidemiology and Clinical Outcomes of Invasive Pneumococcal Disease in Manitoba. Pfizer.

Mahmud S, Ronald A, Hinds A, et al. \$156,101; 2012-2013. Comparison of the Epidemiology and Clinical Outcomes of Laboratory-Confirmed Influenza A and Influenza B Cases in Manitoba. GSK.

Martens PJ, Chochinov H, Prior H. \$18,445; 2010-2013. Addressing the Landscape of End-of-Life for Patients with Schizophrenia. PJ Martens CIHR Applied Public Health Chair, Harvey Chochinov Research Chair.

Martens PJ, Moffat M, Erickson, T, et al. \$285,000; 2005-2013. From Evidence to Action: Addressing Challenges to Knowledge Translation in Regional Health Authorities. CIHR.

Martens PJ, Roos NL, Burchill C, et al. 2002-2013. MCHP Training Data Repository, Development of a Training Resource. CFI.

Menec V, Burchill C, Yogendran M. 2005-2013. Population-Based Analysis of the Relation between Neighborhood and Individual Characteristics and Health Among Seniors.

Nickel N, Martens PJ, Chateau D, et al. 2013. Cost of Not Breastfeeding. CIHR Applied Public Health Chair Award.

Ong W, Fransoo R, Doupe M, et al. \$5,184.00, 2011-2013. The Effects of Delay in Hip Fracture Repair for Patients on Clopidogrel (Plavix). Department of Anesthesia Academic Oversight Committee, Concordia Hip and Knee Institute.

Ouellette-Kuntz H, Brownell M, Roos L, et al. \$70,376.00; 2012-2013. Investigating the Association between Interpregnancy Interval and Autism Spectrum Disorders using the Manitoba Centre for Health Policy's Data Repository. CIHR.

Ouellette-Kuntz H, Brownell M, Shooshtari S, et al. \$128,523; 2009-2013. Enhancing Surveillance of Pervasive Developmental Disorders in Canada. PHAC.

Raghavan M, Martens PJ, Burchill C. \$53,750; 2009-2013. Economic Burden of Osteoporosis in Manitoba and Canada. PATH.

Ramsey C, Halyako A, Coombs K, et al. \$125,000; 2010-2013. Effects of Statins on H1N1 Influenza A Infection and Respiratory Disease. MHRC.

Raymond C, Brownell M, Kozyrskyj A, et al. \$275,880.00; 2011-2013. Impact of Stimulant Use on Educational Outcomes in Manitoba High School Students. CIHR.

Razaz N, Hertzman C, Guhn, M, et al. \$121,595; 2012-2013. Children of Multiple Sclerosis: Impact of Chronic Disease in Parents on Early Childhood Development. CIHR.

Roos L, Deber R, Forget E, et al. \$200,000; 2007-2013. Avoiding Hospitalization: Ambulatory Care Sensitive Conditions, Quality of Care, and Socioeconomic Status. CIHR, MHRC, CIAR.

Roos L, Edgerton J, Witt J, et al. 2007-2013. Child Health and Socioeconomic Status: A New Approach. Social Sciences and Humanities Research Council of Canada.

APPENDIX 4: STUDENT RESEARCH PROJECTS

Ongoing Graduate Student Research Projects

Student Name	Degree Sought	Department	Advisor
Andrea Rush-Sirski	MSc	Community Health Sciences	Advisor: Noralou Roos
	Topic: Using spatial epidemiology as a tool to better understand influenza-like illnesses: lessons for pandemic preparedness		
Bethan Davies	PhD	Infectious Disease Epidemiology (Imperial College London)	Advisors: Helen Ward, Geoff Garnett, Katy Turner
	Topic: The contribution of <i>Chlamydia trachomatis</i> to adverse reproductive health and the implications for control policy: a population based retrospective cohort study		
Brenda Comaskey	PhD	Community Health Sciences	Advisor: Noralou Roos
	Topic: Maternal depression and school readiness: a Manitoba population-based study		
Janelle de Rocquigny	MSc	Community Health Sciences	Advisor: Noralou Roos
	Topic: Manitoba's Francophone children: what determines EDI scores?		
Julie Halipchuk	PhD	Applied Health Sciences	Advisor: Beverley Temple
	Topic: Prenatal, obstetrical and perinatal factors associated with the development of youth onset type 2 Diabetes Mellitus in First Nations youth		
Kellie Thiessen	PhD	Applied Health Sciences	Advisor: Maureen Heaman
	Topic: A case study of the implementation of regulated midwifery in Manitoba		
Leanne Kosowan	MSc	Family Social Sciences	Advisor: Javier Mignone
	Topic: Disparities in infant health in Winnipeg, Manitoba: an ecological approach to maternal circumstance effecting infant health		
Sarita Jha	MSc	Pharmacology	Advisor: Silvia Alessi-Severini
	Topic: Use of antipsychotic medications in the youth population of Manitoba: safety and effectiveness		

Graduate Students Completing Research Projects in 2012/13

Student Name	Degree Sought	Department	Advisor
Gregory Finlayson	PhD	Health Policy & Administration (University of Illinois at Chicago)	Advisor: Ross Mullner
	Topic: Allocating funds for healthcare to Manitoba Regional Health Authorities		
Kenneth Lam	PhD	Health Policy, Management & Information (University of Toronto)	Advisor: Raisa Deber
	Topic: Who are the high users of health care services? Determinants and stability of health care expenditure trajectories in Manitoba		
Lauren Yallop	PhD	Psychology	Advisor: Marni Brownell
	Topic: Attention-Deficit/Hyperactivity Disorder in Manitoba young adults: a population-based study		
Margaret Haworth-Brockman	MSc	Community Health Sciences	Advisor: Patricia Martens
	Topic: Gender, deprivation and health in Winnipeg		
Rachel Carr	MSc	Community Health Sciences	Advisor: Patricia Martens
	Topic: The process and outcome of psychiatric deinstitutionalization in a Canadian city		
Thomas Mutter	MSc	Community Health Sciences	Advisor: Leslie Roos
	Topic: Serious postoperative adverse outcomes in obstructive sleep apnea patients: a retrospective database examination of anesthetic, surgical and patient related risk factors		

Karen Penner	PhD	Psychology	Committee member: Patricia Martens
	Topic: Stop, wait, or go: inhibitory control in 4 year old children born very prematurely		
Kellie Thiessen	PhD	Applied Health Sciences	Committee member: Patricia Martens
	Topic: A case study of the implementation of regulated midwifery in Manitoba		
Leah Crockett	MSc	Community Health Sciences	Advisor: Marni Brownell
	Topic: A long-term follow up of late preterm births in Manitoba: what is the association with between socioeconomic status and later childhood outcomes?		
Leanne LeClair	PhD	Community Health Sciences	Committee member: Noralou Roos
	Topic: Community supports for parents of young children: a needs assessment		
Lindsey Dahl	MSc	Community Health Sciences	Advisor: Randy Fransoo
	Topic: N/A		
Lorelei Pierce	MSc	Nursing	Committee member: Patricia Martens
	Topic: Breastfeeding experiences of low-income women in the City of Winnipeg: a qualitative study		
Lori Graumann	MSc	Medical Rehabilitation	Committee member: Malcolm Doupe
	Topic: The relationship of gluteus medius strength and endurance to stability, targeting and agility		
Rae Spiwak	PhD	Community Health Sciences	Committee member: Patricia Martens
	Topic: An examination of risk and protective factors among spousal suicide survivors		
Salme Lavigne	PhD	Community Health Sciences	Advisor: Malcolm Doupe
	Topic: Effects of power toothbrushing on caregiver compliance and on oral and systemic inflammation in a nursing home population		
Shauna Zinnick	MSc	Community Health Sciences	Advisor: Malcolm Doupe
	Topic: Developing and implementing a validated tool to define the types of care provided by nursing home health care aides, and to allocate their time spent doing these different activities		
Tammy Taillieu	PhD	Applied Health Sciences	Committee member: Marni Brownell
	Topic: Pregnancy and intimate partner violence: assessing the long-term physical and mental health outcomes		
Tannis Erickson	MSc	Community Health Sciences	Advisor: Patricia Martens
	Committee members: Mariette Chartier		
Taruwona Manyanga	MSc	Community Health Sciences	Advisor: Randy Fransoo
	Topic: Does the increase in BMI associated with initiation of insulin therapy among youth newly diagnosed with type 1 diabetes predict overweight or obesity at age 18?		

Graduate Students Continuing These Projects (Other Universities)

Student Name	Degree Sought	Department	Role of MCHP Researchers
Amy Hsu	PhD	Health Policy, Management & Information (University of Toronto)	External advisor: Malcolm Doupe
	Topic: An investigation of approaches to performance measurement: an application to long-term care in Ontario		
Justine Gibbings	PhD	Canadian Research Institute for Social Policy (University of New Brunswick)	External examiner: Marni Brownell
	Topic: Characteristics of maternal employment and rural and research concerning inequality and children's outcomes		
Sally Brinkman	PhD	Telethon Institute for Child Health Research (University of Western Australia)	External examiner: Marni Brownell
	Topic: The validation and use of a population measure of early childhood development in Australia: the Australian Early Development Index		
Shannon Reynolds	MSc	Institute of Health Policy, Management & Evaluation (University of Toronto)	External advisor: Malcolm Doupe
	Topic: Cost-effectiveness of registered nurses		

APPENDIX 5: COURSES TAUGHT BY MCHP RESEARCH SCIENTISTS

Graduate Courses in the Department of Community Health Sciences

Course Number	Course Title	Role of MCHP Researchers
CHSC 7130	Methods in Health Services Research and Evaluation	Randy Fransoo (co-instructor) Nathan Nickel (co-instructor) Patricia Martens (co-instructor)
CHSC 7310	Epidemiology of Health Care	Marni Brownell (co-instructor) Noralou Roos (co-instructor)
CHSC 7500	Core Concepts in Public Health	Randy Fransoo (guest lecturer)
CHSC 7520	Epidemiology "Using an MCHP Report to find the story for planners"	Patricia Martens (guest lecturer)
CHSC 7730	Topics in Health Services Research "Survey Research 101" "MCHP – Who We Are, What We Do"	Malcolm Doupe (instructor) Patricia Martens (guest lecturer)
CHSC 8600	Senior Seminar in Community Health Sciences	Leslie Roos (instructor)

Undergraduate Courses

Faculty	Course Number	Course Title	Role of MCHP Researchers
Integrated Studies	ARTS 1160	Leadership: An Interdisciplinary Approach "Leadership: my perspectives as a woman leader"	Patricia Martens (guest lecturer)
Nursing (Queen's University)	NURS 800	Advanced Measurement, Design & Analytic Techniques (Advanced Research Design and Analysis)	Gregory Finlayson (instructor)
Medicine	PAEP 7045	Research and Clinical Practice	Dan Chateau (co-instructor)
Medicine	PH007, PH012, PH014, PH017	Population Health and Medicine (Block I): Statistical Methods in Health Research 1-4	Patricia Martens (instructor) Dan Chateau (tutorial leader) Malcolm Doupe (tutorial leader) Randy Fransoo (tutorial leader)
	PH010	Applying Research Design 3	Alan Katz (instructor & tutorial leader)
	PH013	Secondary Prevention–Screening	Alan Katz (instructor & tutorial leader)
	PH019, PH023	Primary, Secondary and Tertiary Prevention 1-2	Alan Katz (instructor & tutorial leader)
	PH022	Tertiary Prevention–Diagnosis and Treatment	Alan Katz (instructor & tutorial leader)
	PH030, PH031, PH035	Using the Medical Literature 1-2 & 4	Alan Katz (instructor & tutorial leader)
	PH066	Canada's Health Care Systems & Physicians' Roles	Alan Katz (instructor & tutorial leader)
	PH069	Health Policy - Applying the Concepts	Malcolm Doupe (tutorial leader)
Medicine	N/A	Biostatistics and Research Design Review for the MCCQE Licensing Examination	Patricia Martens (instructor)

Professional Courses

University	Program	Course Title	Role of MCHP Researchers
University of Manitoba	International Medical Graduate Program	Critical Thinking and Clinical Reasoning: International Medical Graduate Program (Orientation)	Alan Katz (instructor)

APPENDIX 6: MEDIA FEATURES AND RELEASES

“Understanding the Health System Use of Ambulatory Care Patients” (Dr. Alan Katz)

Interview on CJOB, March 2013.

“Perinatal Services and Outcomes in Manitoba” (Dr. Maureen Heaman)

« Jeunes mères célibataires : une réalité souvent teintée de honte et de méfiance » Radio-Canada. November 28, 2012 <http://www.radio-canada.ca/regions/manitoba/2012/11/28/001-mefiance-filles-meres-soins-prenataux.shtml>

Interview by Cameron McLean on University of Winnipeg Radio, November 19, 2012.

Interview by Courtney Ketchen on Breakfast Television Winnipeg, CityTV, November 16, 2012.

Interview by Joff Schmidt for CBC Radio Noon, Winnipeg, November 2, 2012.

“Newborns fare poorly in Manitoba” by Larry Kusch. Winnipeg Free Press. November 2, 2012
<http://www.winnipegfreepress.com/local/newborns-fare-poorly-in-manitoba-176914021.html>

“Teen mother and infant mortality rates higher than Canadian average” Winnipeg Free Press. November 1, 2012
<http://www.winnipegfreepress.com/breakingnews/Teen-mother-and-infant-mortality-rates-higher-than-Canadian-average-176808181.html>

“How are Manitoba’s Children Doing?” (Dr. Marni Brownell and Dr. Mariette Chartier)

“Invest in families, not CFS apprehensions” by John Gerrard. Winnipeg Free Press. November 19, 2012
<http://www.winnipegfreepress.com/opinion/westview/invest-in-families-not-cfs-apprehensions-179909231.html>

“Diabetes in Manitoba continues to increase in Manitoba youth - the report How are Manitoba Children Doing? by Dr. Marni Brownell and colleagues” Manitoba Liberals: Jon Gerrard’s Blog, October 16, 2012.
<http://manitobaliberals.blogspot.ca/2012/10/diabetes-in-manitoba-continues-to.html>

“Hope is Real” Editorial. Winnipeg Free Press. October 13, 2012
<http://www.winnipegfreepress.com/opinion/editorials/hope-is-real-174001441.html>

“Manitoba’s kids on an upswing, research shows” by Carol Sanders. Winnipeg Free Press. October 12, 2012.
<http://www.winnipegfreepress.com/local/manitobas-kids-on-an-upswing-research-shows-173844601.html>

Interview by Eleanor Coopsammy on CTV Morning Live, October 12, 2012.

“Decade-long study shows kids’ health connected to income gap” by Tim Campbell. Winnipeg Free Press. October 11, 2012 <http://www.winnipegfreepress.com/arts-and-life/life/health/Decade-long-study-shows-kids-health-connected-to-income-gap-173707201.html>

“Income linked to kids’ health, school performance” CBC News and CBC News Parent List. October 11, 2012. <http://www.cbc.ca/news/health/story/2012/10/11/mb-university-manitoba-study-health-winnipeg.html> and <http://www.cbc.ca/parents/2012/10/the-parent-list---oct-12.html>

“More kids graduating high school on time” Winnipeg Sun. October 11, 2013
<http://www.winnipegsun.com/2012/10/11/more-kids-graduating-high-school-on-time>

Interview by Richard Cloutier on CJOB, October 11, 2012.

Interview on Radio-Canada, October 11, 2012. (Dr. Mariette Chartier)

“At risk at birth” Editorial. Winnipeg Free Press. May 14, 2012
<http://www.winnipegfreepress.com/opinion/editorials/at-risk-at-birth-151338215.html>

“Projecting Personal Care Home Bed Equivalent Needs in Manitoba Through 2036” (Dr. Dan Chateau)

“Centre may show way for dealing with aging population, but receives no direct government funding” by Larry Kusch. Winnipeg Free Press. February 9, 2013. <http://www.winnipegfreepress.com/breakingnews/Grey-area-190515681.html>

“Personal care home questions ignored: Tories” Winnipeg Sun. December 9, 2012.

<http://www.winnipegsun.com/2012/12/09/personal-care-home-questions-ignored-tories>

“Personal care bed shortage at risk if no action taken” by Quinn Richert. The Manitoban. October 15, 2012 <http://www.themanitoban.com/2012/10/personal-care-bed-shortage-at-risk-if-no-action-taken/12190/>

“Aging boomers to put squeeze on care home beds” CBC News. October 5, 2012

<http://www.cbc.ca/news/canada/manitoba/story/2012/10/04/mb-care-home-beds.html>

“Care homes face future crunch” by Larry Kusch. Winnipeg Free Press. October 5, 2012

<http://www.winnipegfreepress.com/local/care-homes-face-future-crunch-booming-numbers-172781901.html>

Interview on CTV Morning Live, October 5, 2012.

Interview on Up to Speed with Larry Updike, CBC Radio, October 4, 2012.

“Aging population creates need for 5,100 new beds by 2036: report” Winnipeg Free Press and Manitoba Non-Profit Housing Association (MNPFA). October 4, 2012

<http://www.winnipegfreepress.com/breakingnews/Aging-population-creates-need-for-5100-new-beds-by-2036-report-172658511.html> and <http://mnpha.com/10/aging-population-creates-need-for-5100-new-beds-by-2036-report-2/>

“Report says province needs to prepare for aging population” CJOB. October 4, 2012.

<http://www.cjob.com/news/winnipeg/story.aspx?ID=1785350>

“Study shows need for personal care home beds expected to spike in Manitoba” CTV News. October 4, 2012

<http://winnipeg.ctvnews.ca/study-shows-need-for-personal-care-home-beds-expected-to-spike-in-manitoba-1.983270>

« Une étude prévoit une pénurie de lits de soins de longue durée d’ici 2036 » Radio-Canada. October 4, 2012.

<http://www.radio-canada.ca/regions/manitoba/2012/10/04/006-aines-soins-manitoba.shtml>

“Health and Healthcare Utilization of Francophones in Manitoba” (Dr. Mariette Chartier)

“Francophones’ health improves” by Kevin Rollason. Winnipeg Free Press. June 20, 2012.

<http://www.winnipegfreepress.com/local/francophones-health-improves-159684115.html>

“Manitoba francophones healthier: study” Winnipeg Free Press. June 19, 2012.

<http://www.winnipegfreepress.com/local/Manitoba-francophones-healthier-study-159592735.html>

« Manitoba : les francophones en meilleure santé que leurs pairs » Radio-Canada. June 19, 2012

<http://www.radio-canada.ca/regions/manitoba/2012/06/19/005-sante-francophones-etude-universite.shtml>

“The Early Development Instrument (EDI) in Manitoba: Linking Socioeconomic Adversity and Biological Vulnerability at Birth to Children’s Outcomes at Age 5” (Dr. Rob Santos)

“Birth and School.” Richard Cloutier Reports, CJOB. May 11, 2012.

<http://www.cjob.com/Shows/RCR/Channels/Summaries/story.aspx?ID=1702523>

“Why medical screening still has value” by Dr. Alan Katz, Health Column, Troy Media.com. June 8, 2012
<http://www.troymedia.com/2012/06/08/why-medical-screening-still-has-value/> and <http://umanitoba.ca/outreach/evidencenetwork/archives/6240>

“Providing the right amount of health care; more is not always better” by Thérèse Stukel and Noralou Roos. iPolitics. ca. June 5, 2012
<http://www.ipolitics.ca/2012/06/05/providing-the-right-amount-of-healthcare-more-is-not-always-better/> and <http://umanitoba.ca/outreach/evidencenetwork/archives/6154>

“Want a Cancer Screening? You May Be Denied” by Dr. Alan Katz, The Blog, The Huffington Post Canada. June 1, 2012 http://www.huffingtonpost.ca/alan-katz/medical-screening_b_1563334.html

“What do we need to prepare for as the population ages? Randy Fransoo, Researcher for Manitoba Centre for Health Policy, University of Manitoba” Richard Cloutier Reports, CJOB. May 29, 2012.
<http://www.cjob.com/Shows/RCR/Channels/Summaries/story.aspx?ID=1711526>

“Prescription for disaster” by Randy Turner. Winnipeg Free Press. May 12, 2012.
<http://www.winnipegfreepress.com/opinion/fyi/prescription-for-disaster-151227945.html>

“Prevention! Doctors in the House. Dr. Richard Stanwick, Dr. Alan Katz” Richard Cloutier Reports, CJOB. May 11, 2012
<http://www.cjob.com/Shows/RCR/Channels/Summaries/story.aspx?ID=1702523>

“The new RHA boundaries in the Provincial budget” CBC Radio Noon. April 17, 2012. (Dr. Patricia Martens)

“Kids in care face a huge hurdle getting an education” by Dr. Marni Brownell, Troy Media.com. April 9, 2012 <http://www.troymedia.com/2012/04/09/kids-in-care-face-a-huge-hurdle-getting-an-education/> and <http://umanitoba.ca/outreach/evidencenetwork/archives/4598>

Media Releases

Continuity of Care Best Option for Healthcare, but not Always the Case in Manitoba. For the Deliverable “Understanding the Health System Use of Ambulatory Care Patients”. March 21 2013.

Report Finds New Uses for Provincial Lab Data. For the Deliverable “A Systematic Investigation of Manitoba’s Provincial Laboratory Data”. December 3, 2012

Giving Birth in Manitoba. For the Deliverable “Perinatal Services and Outcomes in Manitoba”. November 1, 2012

How Healthy are Manitoba’s Children? For the Deliverable “How are Manitoba’s Children Doing?”. October 11, 2012

Planning for an Aging Population. For the Deliverable “Projecting Personal Care Home Bed Equivalent Needs in Manitoba Through 2036”. October 4, 2012

First-of-a-Kind Study on the Health of Francophones in Manitoba. For the Deliverable “Health and Healthcare Utilization of Francophones in Manitoba”. June 19, 2012

Health at Birth Strongly linked to how Prepared Kids are for School. For the Deliverable “The Early Development Instrument (EDI) in Manitoba: Linking Socioeconomic Adversity and Biological Vulnerability at Birth to Children’s Outcomes at Age 5”. May 11, 2012

New Study says Intensive Care Units in Manitoba are busy. For the Deliverable “The Epidemiology and Outcomes of Critical Illness in Manitoba”. April 18, 2012

Dr. Greg Finlayson

- Director, Carolyn Sifton Foundation Inc. (1988 to present)
- Member, Working Group to Create a Canadian Consortium of Cancer Costing (March 2013 to present)
- Member, National Physician Database Technical Working Group, Canadian Institute for Health Information (September 2010 to present)
- Member, Diagnostic Services of Manitoba Research and Innovation Funding Committee (2008 to 2012)
- Coordinator for bi-weekly research forums, Manitoba Centre for Health Policy (November 2001 to September 2006, 2008 to present)
- Reviewer, Healthcare Policy, (2010, 2012).
- Member, Canadian Association for Health Services and Policy Research

Dr. Randy Fransoo

- CIHR Operating Grant peer review panel (Health Services 2010; Population, Public and Community Health 2011-)
- Reviewer for Canadian Journal of Public Health (2008, 2011, 2012)
- Department of CHS Graduate Program Committee (2011-)
- CIHI advisory group on health indicators for sparsely populated regions (2009-)
- Department of Community Health Sciences Executive Committee (2008-2012)
- Manitoba Critical Care Research Group (2007-)
- Cardiovascular Health And Research in Manitoba (CHARM) group (2006-)
- Manitoba Community Health Assessment Network (1997-)

Dr. Alan Katz

- Board Member, Canadian Doctors for Medicare
- External Reviewer, Health Research Council of New Zealand
- Member of Manitoba KT Node of KT Canada
- Faculty Executive Council of the Faculty of Medicine
- Faculty of Medicine representative to University Senate
- Member: Manitoba E-Health Research Advisory Committee (Chair: Dr. Diamond Kassum)
- Physician Integrated Network Indicator Advisory Committee
- Board Member College of Family Physicians of Canada
- Chair, Section of Researchers, College of Family Physicians of Canada
- Executive Management Committee Department of Family Medicine
- Fiscal Committee Department of Family Medicine
- Program evaluation and monitoring working group , Cancer Journey Project
- Board member North American Primary Care Research Group
- Member Stakeholder Advisory Group Canadian Primary Care Research and Innovation Network.
- Board Member Canadian Primary Care Sentinel Surveillance Network

