

MANITOBA CENTRE FOR HEALTH POLICY

Annual Report 2003/2004

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Faculty of Medicine, University of Manitoba

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MISSION STATEMENT

The Manitoba Centre for Health Policy (MCHP) undertakes population-based health services research and policy analyses. MCHP relies upon the unique Population Health Research Data Repository to describe and explain patterns of care and profiles of health and illness. MCHP's mission 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. The Centre is a research unit in the Department of Community Health Sciences, Faculty of Medicine, University of Manitoba.

DIRECTOR'S LETTER



The year 2003/2004 marks my last year as Director of the Manitoba Centre for Health Policy. On June 1, 2004 I will step down as Director. Over the past year, I have spent much of my time working toward a smooth transition in leadership at the Centre. Patricia Martens has assumed the Acting Directorship. MCHP is in great shape! My plans are not for retirement, but a year's sabbatical to focus on the new research with the

education and social assistance data, returning in the fall of 2005 to continue on my Canada Research Chair work.

There have been many accomplishments and recognitions for MCHP this year.

- We are thrilled with Evelyn Shapiro's establishing the Evelyn Shapiro Award for Health Services Research. This will support graduate students to undertake research using the Population Health Research Data Repository. She is also to be congratulated on receiving the Fred Douglas Humanitarian Award for her many years of outstanding service to Manitoba seniors.
- Anita Kozyrskyj was appointed the Director of the Western Regional Training Centre at the University of Manitoba. The Centre is designed to support training of applied health services researchers across disciplines, sectors and institutions. It is a joint graduate training program with the University of British Columbia.
- We congratulate Aynslie Hinds, a Master's student and research assistant working with Lisa Lix, on being awarded a Canadian Graduate Scholarship from the Social Sciences and Humanities Research Council.
- Congratulations to Laurel Jebamani on receiving her Master of Science. Her thesis was entitled "The Business of Stopping AIDS: A Case Study of a Non-Governmental Organization in South India".
- There will be a formal announcement coming soon—Energy, Science and Technology has made the first two installments on an Endowed Chair in Child Health at MCHP in the coming year. We have much to celebrate!

Thanks to the funding received from the RBC Financial Group we have been able to support the recruitment of visiting scholars including Dr. Fiona Stanley, from the Telethon Institute for Child Health Research in Australia. Her research involves conducting and supervising studies

in maternal and child health. The first RBC Financial Group Clinical Research Fellow, Anne Guèvremont, began work in October 2003.

Congratulations to three of our MCHP Advisory Board members who have been appointed to the first Health Council of Canada: Michael Decter (appointed Chair), Dr. Brian Postl (non-government representative), and Milton Sussman (government representative).

There are numerous people whom I wish to thank for their commitment and support this year; I apologize in advance for anybody that I might have overlooked:

- Members of our Advisory Board, especially our Chair, Brian Postl;
- Health Minister Dave Chomiak, Minister Jim Rondeau, Healthy Living, and Deputy Health Minister Milton Sussman, who maintain a strong interest in the policy implications of our work;
- Minister Peter Bjornson, Education, Citizenship and Youth; Minister Diane McGifford, Advanced Education and Training; Minister Christine Melnick, Family Services and Housing, Minister Tim Sale, Energy, Science and Technology; Deputy Minister Pat Rowantree, Education, Citizenship and Youth; Deputy Minister Debra Woodgate, Family Services and Housing; and Deputy Minister John Clarkson, Energy, Science and Technology, all of whom have encouraged and supported our research interests into the broader determinants of health;
- Dean of Medicine Brian Hennen and Department Head John O'Neil who have supported new initiatives undertaken by MCHP;
- Louis Barre, Chief Information Officer, Manitoba Health, our able and reliable liaison with Manitoba Health;
- Numerous individuals who have provided input and feedback for our deliverables, especially those who have served on one of our Working Groups; and
- All the MCHP staff whose hard work and conscientious commitment is critical to the success of MCHP's activities.

Noralou P. Roos, PhD
Director and Professor

DELIVERABLES

Deliverables Completed

Pharmaceuticals: Therapeutic Interchange and Pricing Policies

This project compares the cost implications of adopting various policies to help to manage the growing spending on drugs. Policies explored are reference-based pricing versus aggressive drug use management techniques versus the status quo. The model focused on one class of drugs: a group of drugs commonly used to control high blood pressure. Our model showed Manitoba could have saved almost \$7 million in 2000/01 in combined public and private spending for just this one class of drugs.

Patterns of Health Care Use and Cost at the End of Life

This project explores what services are used before death, how they have changed over time, how they vary by age or region of residence, and what the cost implications are. We incorporated not only use of hospitals, nursing homes and physicians before death, but also home care, pharmaceuticals, and special medical technologies such as MRI. We found that dying people do use more health services than the rest of the adult population—as one might expect—but not very much more. Also we found wide variation in the extent to which nursing home residents are hospitalized before death, a finding which has led to further research.

Using Administrative Data to Develop Indicators of Quality in Family Practice

The study developed indicators of quality in family practice that are suitable for a quality improvement process, and measurable with data available in the Population Health Research Data Repository. Literature, existing guidelines and focus groups of family physicians were consulted to develop the 13 indicators. We found that Manitoba's family doctors are doing quite well, and are on a par with physicians in other provinces. Nevertheless, for some indicators, there is room for substantial improvement.

Diagnostic Imaging Data in Manitoba: Assessment and Applications

The purpose of this project is to develop information capabilities to understand how radiology services are being delivered across the province, including the use of general X-ray, mammography, angiography, ultrasound, bone densitometry, CT scan, and MRI. The study found that there are significant gaps in the data which limit the potential to estimate accurately Manitoba residents' use of these services, especially outside of the urban centres of Winnipeg and Brandon. An innovation in this report is the inclusion of papers on three demonstration projects, studies within the study, that illustrate where and how the data can be used.

Deliverables in Progress

Patterns of Regional Mental Health Disorder Diagnoses and Service Use in Manitoba: A Population-Based Study

The goal of this project is to describe the use of mental health services by residents of rural and northern Manitoba RHAs. This has been identified as a high priority by the rural and northern RHAs, and by the Deputy Minister and Assistant Deputy Ministers at Manitoba Health. Rates of various mental illness diagnoses will be compared between regions, as well as use of health care services by persons with a mental health diagnoses. Comparisons between RHAs will be performed whenever possible, as well as analyses by gender, age categories and income level. This deliverable is the second of three committed to by Manitoba Health in support of the CIHR-funded *The Need to Know* project.

A Population-Based Description of High Cost and High Frequency Pharmaceutical Users in Manitoba

This deliverable will explore further a finding from a 2002 MCHP report that a minority of users account for a high proportion of total pharmaceutical costs, and that a very high proportion of these users were persistent high cost users over time. It will look at, for example: Who are the high cost and high

frequency pharmaceutical users in Manitoba (age, gender, location, demographics, types of illness, etc.)? Are these people using ambulatory care only, home care, hospitals, or are they PCH residents? What is the relationship between the highest cost pharmaceutical users, and the drugs on which the province spends the most money?

Patient Safety Issues: A Systems-Wide Approach for Manitoba

This project will frame quality of care, not as a medical error issue but as an issue of patient safety. Indicators of patient safety will be estimated for the province, as well as across hospitals and regions. Indicators of compromised patient safety will be developed, described, and compared across age groups, regions, hospitals in Winnipeg, while controlling for variables like case-mix. Examples of potential indicators are adverse events during hospitalization, in-hospital falls, adverse drug reactions, complications of medical care, 30-day post-surgical mortality, and hospital re-admissions within 30 days of discharge

Profiling the Care Delivered by Primary Care Practices: A Baseline Measure

The focus of this research is on developing indicators appropriate for monitoring the delivery of primary care in the province, at the level of the primary care practice, not the individual patient. In other words, what is the overall pattern of care delivered to people by a particular group of general practitioners/family practitioners? Do the demonstration sites for primary care reform initiatives exhibit similar or different profiles than do the other non-demonstration site practices? Proposed indicators include the types of patients served, the volume of care delivered, continuity of care, and patterns of medication prescribing and diagnostic tests.

Primary Prevention: An Examination of Data Capabilities in Manitoba

This project will explore data capabilities in the area of primary prevention. The objectives are to develop, in consultation with a working group and through a review of the literature, a list of surrogate measures (e.g., weight, height, HbA1c levels) and proximate factors (e.g., exercise activity, smoking) related to common chronic diseases, such as diabetes and heart disease, that will likely need to be tracked in the future as national prevention strategies are being implemented; to examine data capabilities to track these surrogates/proximate factors; to identify key information needs and gaps; and to recommend strategies for enhancing the availability of necessary data.

Health and Health Care Use Patterns: A Gender Comparison:

An understanding of women's health issues is critical. Because women outlive men, they are more likely to suffer from chronic and degenerative conditions of old age. The assumption that women's health is synonymous with men's health has resulted in potentially harmful consequences, with missed symptoms and treatments. As our population ages, older women's health problems (such as heart disease, osteoporosis, cancer, diabetes and arthritis) will command a greater share of the burden of disease. In a recent MCHP deliverable (Brownell et al. 2003), there was definite evidence of sex differences in health status. Therefore, it is timely that MCHP look at health status and health care use by sex. This will be in conjunction with the Manitoba Health Women's Health Strategy experts. This deliverable is the last of three committed to by Manitoba Health in support of the CIHR-funded *The Need to Know* project.

Defining & Validating Chronic Diseases: An Administrative Data Approach

This deliverable would work on establishing case definitions of various chronic diseases, using administrative data and examining what are the appropriate time spans (retrospective data) required for the most valid case definitions. There are some chronic diseases for which there are several case definitions, such as diabetes, so work would be needed to establish the most valid yet practical measure. There are others, such as arthritis, where very little work has been done to date. Valid and reliable case definitions will be useful for Manitoba Health and the RHAs to monitor the population's health status and to contribute to health care management reports.

Using Administrative Data to Develop Indicators of Quality Care in Personal Care Homes

MCHP reviewed the quality of care in PCHs in 1993. With the change in how nursing homes are used, with more individuals entering at older ages for shorter stays, many important issues around the quality of care for Manitobans using these homes have been raised. A recent MCHP report has identified wide variation in the percentages of PCH residents transferred to hospitals near the end of life (Menec et al.), which means that in some PCHs, individuals are much less likely to die “at home”, and suggests possible differences in quality of care. What set of indicators of quality of care in a PCH should be used, from an administrative database point of view? Indicators will include measures of hospital, physician and pharmaceutical use, with the potential addition of further data available from the RHAs. While there are no benchmarks for the majority of indicators, the variation between PCHs, and the possible reasons for this variation, will be of interest.

Developing a Needs-Based/Population-Based Funding Methodology for Manitoba Regional Health Authorities

This project will consider alternative approaches to funding that might reasonably be expected to meet the overall health care needs of Manitobans, while acknowledging the practical, policy and equity issues that are involved in funding health services. Since RHAs were established in 1997, their funding has been based on historical experience, and regional plans and budgets. Recently, Manitoba Health has provided RHAs with 5-year budget targets. If the health care needs of the population of each RHA were the same, a needs-based funding approach would simply take the total available resources and distribute them according to the size of the population in the RHAs (a ‘per capita’ funding approach). However, there are important considerations that must be taken into account. These include age and gender, the difference in need for health services across regions, and specialized care received outside a person’s region of residence. This research will not determine the ‘right’ amount of funding to meet health care needs, but rather will consider the best way to distribute available funds to improve the overall health of the Manitoba population.

Assessing Surgical Waiting Times Using Administrative Data and Patient Registries

MCHP has looked at elective surgery waiting times for a number of procedures from 1992/93 to 1998/99. This method of measuring waiting times, i.e., using a pre-operative visit to the surgeon to flag the beginning of the wait, has been validated through chart review for elective general surgery procedures. A richer understanding of the issue of waiting times could be gained by examining data from existing registries—such as cardiac, hip/knee replacement, cataract. The additional information would lead to an understanding of the patient, provider and system characteristics that have an impact on waiting times. This study will explore such issues as: Have waiting times changes since the 1998/99 study? Can waiting list registry data be used to validate the use of administrative data to estimate waiting times? Is there variation in outcomes associated with different wait times? Do wait times vary by age, sex, socioeconomic status, region of residence?

RECENT MCHP DELIVERABLES

2003

Pharmaceuticals: Therapeutic Interchange and Pricing

by Steve Morgan, Anita Kozyrskyj, Colleen Metge, Noralou Roos and Matt Dahl

Pharmaceuticals: Focussing on Appropriate Utilization

by Colleen Metge, Anita Kozyrskyj, Matt Dahl, Marina Yogendran and Noralou Roos

Supply, Availability and Use of Family Physicians in Winnipeg

by Diane Watson, Bogdan Bogdanovic, Petra Heppner, Alan Katz, Robert Reid and Noralou Roos

Manitoba RHA Indicators Atlas: Population-Based Comparisons of Health and Health Care Use

by Patricia J Martens, Randy Fransoo, The Need to Know Team, Elaine Burland, Laurel Jebamani, Charles Burchill, and others.

Why is the Health Status of Some Manitobans Not Improving? The Widening Gap in the Health Status of Manitobans

by Marni Brownell, Lisa Lix, Okechukwu Ekuma, Shelley Derksen, Suzanne De Haney, and others.

Discharge Outcomes for Long-Stay Patients in Winnipeg Acute Care Hospitals

by Anita Kozyrskyj, Charlyn Black, Elaine Dunn, Carmen Steinbach and Dan Chateau

Key Events and Dates in the Manitoba Health Care System, 1990 to 2003

compiled by Fred Toll

2002

Estimating Personal Care Home Bed Requirements

by Norman Frohlich, Carolyn De Coster, and Natalia Dik

The Health and Health Care Use of Manitoba's Seniors: Have They Changed Over Time?

by Verena Menec, Leonard MacWilliam, Ruth-Ann Soodeen and Lori Mitchell

Profile of Medical Patients Who Were Assessed as Requiring Observation-Level Services at Winnipeg Acute Care Hospitals in 1998/99

by Sharon Bruce, Charlyn Black and Charles Burchill

Projecting Hospital Bed Needs for 2020

by David Stewart, and Robert Tate, Greg Finlayson, Leonard McWilliam, and Noralou Roos

Health and Health Care Use of Registered First Nations People Living in Manitoba: A Population-Based Study

by Patricia J Martens, Ruth Bond, Laurel Jebamani, Charles Burchill, and others.

RESEARCH

New Award

The Evelyn Shapiro Award for Health Services Research

MCHP is pleased to announce the *Evelyn Shapiro Award for Health Services Research*. This fund has been established to provide an annual award which will be offered to a graduate student. The student must be enrolled full-time in the Faculty of Graduate Studies (Masters or PhD program) at the University of Manitoba, specifically in the Faculty of Medicine and conducting research which will use the Manitoba Centre for Health Policy's Population Health Research Data Repository.

Personnel Awards

- Marni Brownell: CIHR New Investigator Award and Research Allowance, 2001 - 2006, \$385,485.
- Anita Kozyrskyj: CIHR New Investigator Award, 2003 - 2008, \$250,000.
- Lisa Lix. University of Manitoba Research Grants Program (New Faculty). December 2004. *Testing Covariance Structures in Multivariate Repeated Measures Designs*. \$7100
- Patricia Martens: CIHR New Investigator Award, 2003 - 2008, \$250,000.
- Verena Menec: CIHR New Investigator Award, 2001 - 2005, \$318,588.
- Noralou Roos: Canada Research Chair in Population Health, 2001 - 2007, \$1,225,000.
- Noralou Roos: Royal Bank of Canada, Research in Child Health Award, 2002 - 2008, \$750,000.

MCHP Research

Canada Foundation for Innovation:

Roos NP. \$250,000, 1/01 - 12/07. "Sustaining Canada's Lead in Health Information Infrastructure: Enhancing the Population Health Research Data Repository."

Canadian Institutes for Health Research:

Lix LM, Deverteuil G, Roos LL, Robinson R, Walker JR. \$216,506, 10/02 - 09/04 "Mental Health Service Utilization and Population Mobility in Manitoba: A Longitudinal Analysis."

Roos LL, Deber RR, Forget EL. \$182,594, 10/02 - 03/04. "Exploring Alternative Funding Models for Canadian Health Care."

Menec V, Chipperfield J, Perry R, Havens B. \$35,055, 2003. "Activity and Successful Aging Among the Oldest-Old: A Pilot Study."

Kozyrskyj AL, Becker AB, Ernst P. \$219,050, 10/02 - 09/05. "Do Antibiotics in Early Life Contribute to the Development of Asthma in Children?"

Roos NP, Collins PK, Williams JI, Slaughter P, Laupacis A. \$142,654.89, 10/03 - 10/04. Canadian Institutes of Health Research and Canadian Population Health Initiative workshops on "Harmonizing Research and Privacy: Standards for a Collaborative Future."

Canadian Population Health Initiative:

Roos LL, Roos NP, Kozyrskyj AL, Martens P. \$675,200, 02/01 – 01/04. “Population and Communities: Understanding the Determinants of Health.”

Brownell M, Roos NP, Watson D. \$488,015, 07/03 - 06/06. “Inequalities in Child Health: Assessing the Roles of Family, Community, Education and Health Care.”

Community Alliances for Health Research:

Martens PJ, Black C. \$2,257,396, 1/01 - 3/06. “The Need to Know: Collaborative Research by the CAHR, MCHP, Rural and Northern Regional Health.”

Health Policy Research Program:

Metge C, Kozyrskyj AL and others. \$240,000, 08/02 - 07/04. “Evaluation of an Integrated Model and Iterative Loop Assessment of Drug Effectiveness in the Real World.”

Manitoba Health:

Black C, Roos NP. \$9,250,000, 04/03 - 3/07. Manitoba Centre for Health Policy Agreement.

Manitoba Health Research Council:

Martens PJ. \$45,315, 09/02 - 08/04. “The Sagkeeng First Nation Follow-up Study #2. The Effect of prenatal interventions on breastfeeding initiation and duration.”

Pharmacia Canada:

Kozyrskyj AL, Collins D, Kvern B. \$368,825, 07/01 - 06/03. “Newly-Approved Provincial Formulary Drugs: A Model to Assess Their Utilization.”

Royal Bank of Canada Financial Group:

Roos N. \$750,000, 01/02 – 01/08. “RBC Financial Group Senior Investigator Award for Research in Children’s Health.”

Social Sciences and Humanities Research Council of Canada:

Havens B, Black C, Menec V, Roos NP, Chipperfield J. \$357,000, 2000 - 2002, “Determinants of Persistent Good Health and Chronic Ill-Health Based on the Aging in Manitoba Study Cohort.”

Frohlich N. \$47,025, 01/02 – 01/04. “A Cognitive Model to Deal with Problems in Political and Economic Choice.”

South Eastman Regional Health Authority through Health Canada Rural and Remote Initiatives:

Martens PJ. \$9,000, 04/01 - 08/03 for an evaluation of the project “Evaluating the Effectiveness of South Eastman’s Baby-Friendly Initiative Process.”

Winnipeg Inner-City Research Alliance:

Roos LL, Frohlich KL, Pachal D, Forsyth S. \$57,719, 01/01 – 01/04. “Winnipeg Quality of Life.”

University of Manitoba Grants Program:

Lix L. \$7,100, 12/03 – 12/04. “Testing Covariance Structures in Multivariate Repeated Measures Designs.”

Research Using the Manitoba Population Health Research Data Repository

Note: These projects are not run (financially or administratively) through MCHP, and may access more than one data source.

Alberta Heritage Foundation for Medical Research:

Newburn-Cook C. \$100,000, 07/01 – 06/03. “Direct Medical Costs of Low Birth Weight from Birth to Seven Years of Age in Two Canadian Provinces.”

Assembly of Manitoba Chiefs:

O’Neil J. \$371,309, 11/99 - 11/06. “Manitoba First Nations Longitudinal Health Survey: Data Linkage Study.”

Canadian Health Services Research Foundation:

Sheps S., UBC, Young K, U of Manitoba. \$400,000. 06/01 – 07/06. Western Regional Training Centre in Health Services Research.

Canadian Institutes for Health Research:

Becker A, Kozyrskyj A. \$1,250,000, 03/02 – 03/07. “Origins of Asthma in Childhood: The Role of Gene: Environment Interaction.”

Bruce S, Menec V. \$140,000, 2002 through 2004. “The Relation Between Stress and Diabetes in a First Nations Community.”

Hayglass K, Kozyrskyj AL. \$1,500,000, 06/02 – 05/08. “Allergy and Asthma: From Molecular Regulation to Population Health.”

Heaman M. \$250,000, 01/03 – 01/08. “New Investigator Award”.

Leslie W, Section of Nuclear Medicine, St. Boniface General Hospital. \$43,768. November 1, 2003 – October 31, 2004. “Clinical Determinants and Fracture Outcomes in Manitoba First Nations.”

O’Neil J, U. of Manitoba. \$1,250,000. 04/02 – 09/04. “Centre for Aboriginal Health Research – ACADRE Training Program.”

O’Neil J. \$131,760, 4/02 – 4/05. “Manitoba First Nations Regional Longitudinal Health Study.”

Uhanova J. \$211,732, 03/01 – 03/04. “Application of the Health Care System to First Nations vs Non-First Nations Patients with Chronic Hepatitis C Viral Infections and HCV Costing Study.”

Health Canada:

Havens B. \$283,509, 10/00 – 12/04. “Aging in Manitoba, Thirty Years Later.”

Health Science Centre Foundation:

Katz A. \$10,000. 09/03 – 08/04. “Androgen Replacement Monitoring Study.”

Institute of Health Economics:

Carrie A, U. of Alberta. \$28,666. 06/03 – 06/04. “Community-Acquired Pneumonia in Manitoba, Canada: The Effect of Income Level on the Choice of Initial Treatment.”

Manitoba Health:

Havens B. \$131,800, 10/00 – 10/04. “Aging in Manitoba, Thirty Years Later.”

Manitoba Health Research Council:

Metge C. \$88,000, 06/00 – 06/03. “Evaluating Drug Therapy Effectiveness in the Population of Manitoba.”

Manitoba Medical Services Foundation:

Stannard K, Prasad AN, Kozyrskyj A. \$27,000, 01/03 – 12/03. “Health Care Utilization in Manitoba Children With Seizures: A Population-Based Longitudinal Study Using a Birth Related Cohort.”

Merck Frosst Canada:

Doupe M, Katz A. \$350,000, 10/00 – 10/03. “The Manitoba Appropriate Anti-Inflammatory Utilization Project.”

Metge C, Caetano PA, Anderson W, Leslie WD, Yuen CK. \$1,000,000, 11/00 – 11/04. “Maximizing Osteoporosis Management in Manitoba.”

Social Sciences and Humanities Research Council:

Willms D, University of New Brunswick, Brownell M, U of Manitoba. \$5,000, 01/03 – 01/04/ “Initiative for the New Economy. Raising the Bar: A Collaborative Research Initiative on Children’s Learning, Behavioural, and Health Outcomes.

Special Awards Received

Evelyn Shapiro recently received the Fred Douglas Humanitarian Award for her many years of outstanding service to Manitoba seniors. She was selected from a very strong list of nominees. The ceremony was attended by two members of parliament—Dr. Rey Pagtakhan and Judy Wasylycia-Leis along with many others.

We are pleased to announce that **Aynslie Hinds**, a Master's Student in the Department of Community Health Sciences, and a research assistant working with Lisa Lix, has been awarded a Canadian Graduate Scholarship from the Social Sciences and Humanities Research Council. Aynslie's thesis research will be on statistical techniques for examining mental health service use over time.

Congratulations to **Brian Postl**, Chair of MCHP's Advisory Board, who received the 2003 Administrative Award from the Manitoba Medical Association.

New UofM Director for WRTC

MCHP Researcher Anita Kozyrskyj has been appointed the new University of Manitoba Director for the Western Regional Training Centre. WRTC is an innovative centre designed to support training of applied health services researchers across disciplines, sectors, and institutions, equipping them to address the research needs of a wide range of health-care policy makers. It is a joint graduate training initiative based at the Universities of Manitoba and British Columbia.

PUBLICATIONS

2004

Black C, Roos LL. Linking, combining, and disseminating data for understanding population health. Hunter E, Gibson R, Friedman D (eds): *Health Statistics in the 21st Century: Implications for Health Policy and Practice*. Oxford, UK: Oxford University Press 2004; In press.

Black C, Roos NP, Roos L. From health statistics to health information systems: A new path for the 21st century. Hunter E, Gibson R, Friedman D (eds): *Health Statistics in the 21st Century: Implications for Health Policy and Practice*. Oxford, UK: Oxford University Press 2004; In press.

Carrie AG, Metge C, Collins DM, Harding GKM, Zhanel GG. Use of administrative healthcare claims to examine the effectiveness of trimethoprim-sulfamethoxazole versus fluoroquinolones in the treatment of community-acquired acute pyelonephritis in women. *J Antimicrob Chemother* 2004;53(3):512-517.

Curtis LJ, Kozyrskyj A. *From research to policy (or not): The case of "child policy" in Canada, the US and Norway*. In: Evans RG, Hertzman C et al. Canadian Institute for Advanced Research; 2004.

Deber RB, Forget E, Roos LL. Medical Savings Accounts in a universal system: Wishful thinking meets evidence. *Health Pol* 2004; In press.

De Coster C. Non-clinical factors associated with variation in cataract surgery waiting times in Manitoba. *Can J Aging* (Suppl) 2004; In press.

De Coster C, Bruce S, Kozyrskyj A. Use of acute care hospitals by long-stay patients: Who, how much and why? *Can J Aging* (Suppl) 2004; In press.

Finlayson M, Lix L, Finlayson G, Fong T. Trends in the utilization of specific health care services among older Manitobans: 1985 to 2000. *Can J Aging* (Suppl) 2004; In press.

Forget E, Roos LL, Deber RB, Walld R. Recent market-based challenges to Canada's universal health insurance scheme: A gender analysis. *Feminist Econ* 2004; In press.

Frohlich N, Oppenheimer JA, Kurki A. Beyond A Theory of Self-Interest: Modeling Other-Regarding Preferences. *Public Choice* 2004;119(Nos 1-2):91-117.

Kozyrskyj A, Black C, Chateau D, Steinbach C. Discharge outcomes in seniors hospitalized for more than 30 days. *Can J Aging* (Suppl) 2004; In press.

Kozyrskyj A, Carrie AG, Mazowita GB, Lix L, Klassen TP, Law B. Inappropriate decrease in antibiotic use in children in the 1990's: Not all antibiotics, not all children. *Can Med Assoc J* 2004; In press.

Kozyrskyj A, Dahl M, Chateau D, Mazowita GB, Klassen TP, Law B. Inappropriate prescribing of antibiotics in children: Role of physicians and importance of socioeconomic status. *Can Med Assoc J* 2004; In press.

Kozyrskyj A, Mustard CA, Becker AB. Identifying children with persistent asthma from health care administrative records. *Can Respir J* 2004;11(2):141-145.

Kozyrskyj A, Prasad AN. The burden of seizures in Manitoba children: A population-based study using health care administrative data. *Can J Neurol Sci* 2004;31(1):48-52.

Leslie WD, Derksen S, Metge C, Lix L, Salamon EA, Wood Steiman P, Roos LL. Fracture risk among first nations people determined from a retrospective matched cohort study. *Can Med Assoc J* 2004; In press.

Livingstone T, Lix L, McNutt M, Morris E, Osler M, Rosenbluth D, Scott D, Watson F. An investigation of the impact of supplementary health benefits for low income families in Saskatchewan. *Can J Public Health* 2004;95(1):74-78.

Lix LM, Ekuma O, Brownell M, Roos LL.. A framework for modelling differences in regional mortality over time. *J Epidemiol Comm Health* 2004;58, 420-425.

Lix L, Keselman HJ. Multivariate tests of means in independent groups designs. Effects of covariance heterogeneity and nonnormality. *Eval Health Professions* 2004;27(1):45-69.

McKeen, NA, Chipperfield, J. C., & Campbell, D. W. A Longitudinal Analysis of *Discrete Negative Emotions and Health-Services Use in Elderly Individuals*. *J Health Aging*, 2004;16, 204-227.

Menec V, Bruce S, MacWilliam L. Exploring reasons for bed pressures in Winnipeg acute care hospitals. *Can J Aging (Suppl)* 2004; In press.

Menec V, Lix L, MacWilliam L, Soodeen R. Trends in the health status of older Manitobans, 1985 to 1999. *Can J Aging (Suppl)* 2004; In press.

Metge C, Grymonpre R, Dahl M, Yogendran M. Pharmaceutical use among older adults: Using administrative data to examine medication-related issues. *Can J Aging (Suppl)* 2004; In press.

Mitchell L, Roos NP, Shapiro E. Patterns in home care use in Manitoba. *Can J Aging (Suppl)* 2004; In press.

Peterson S, Shapiro E, Roos NP. Regional variation in home care use in Manitoba. *Can J Aging (Suppl)* 2004; In press.

Roos LL, Gupta S, Soodeen R, Jebamani L. Data quality in an information-rich environment: Canada as an example. *Can J Aging (Suppl)* 2004; In press.

Roos LL, Magoon J, Gupta S, Chateau D, Veugelers P. Socioeconomic determinants of mortality in two Canadian provinces: Multilevel modelling and neighborhood context. *Soc Sci Med* 2004; In press.

Roos LL, Menec V, Currie RJ. Policy analysis in an information-rich environment. *Soc Sci Med* 2004;58:2231-2241.

Roos NP, Brownell M, Menec V. Universal medical care and Inequalities in health: Right objectives, wrong tools.[book chapter] In Evans RG, Hertzman C, Barer ML, Baird P (Eds). Oxford: Oxford University Press. In press

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Watson D, Roos NP, Katz A, Bogdanovic B. Is a 5% decline in physician supply significant? *Can Fam Physician* 2003;49:566-567.

Presentations

2004

De Coster C. Communications at MCHP: Some real-world learnings. (Western Regional Training Centre for Health Services Research, February Workshop, Winnipeg MB, February)

De Coster C. Primary care project update. Partners Meeting, (Western Canada Waiting List Project, Calgary AB, January)

Martens P. The RHA indicators atlas. Organizer and Chair, (First annual MCHP/Manitoba Health day, Winnipeg MB, March)

Martens P. 1) Coming full circle in primary prevention: Diabetes and breastfeeding. 2) The Health and Health Care Use of Manitoba's Registered First Nations People: A Population-Based Study. (Guest Lecturer, Centre for Health Management Research, University of Lethbridge, Lethbridge AB, March)

Martens P. Survey Research ... ask a silly question? (Agriculture CapStone Course, University of Manitoba 4th year agriculture students, Winnipeg MB, January)

Martens P. Influencing health policy: What works? Learning along the road of MCHP and *The Need to Know* project (Western Regional Training Centre Graduate Students' Workshop, Winnipeg MB, February)

Roos LL, Martens P. Treatment prevalence and evidence-based decision making (CHSRF Workshop, Vancouver BC, March)

Roos LL. Data analysis in an information-rich environment (Hospital for Sick Children in Toronto and at the Institute for Clinical and Evaluative Sciences, January)

Roos NP. Inequalities in educational outcomes (Hospital for Sick Children in Toronto and at the Institute for Clinical and Evaluative Sciences, January)

2003

Attawar D, Sirski M, Menec V. The relation between continuity of care and health in Manitoba, Canada. (5th International Conference on the Scientific Basis of Health Services, Washington, September)

Bollman R. Rural Canada: From strength to strength (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health" Team Workshop No. 8, Winnipeg MB, October)

Burchill C, Derksen S, Bodnarchuk J, Soodeen R. SAS procedures workshop (students 93.731 Epidemiology of Health Care course, October)

Burland E, Bowen S, Martens P. *The Need to Know* Project: Did it work? First year results. (Abstract "Future of Rural Peoples: Rural Economy, Healthy People, Environment, Rural Communities", Fifth International Symposium. Saskatoon SK, October)

Burland E, Bowen S, Martens P. *The Need To Know* Project: A work in progress. (Abstract CIHR-IHSPR's National Symposium, Montreal QC, November)

- Burland E, Jebamani L. Poster making and mapping workshop (*The Need to Know: Collaborative Research* by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 8, Winnipeg MB, October)
- Collins PK, Roos NP. Privacy issues from the perspective of a research data repository. (Health Privacy Compliance and Security of Health Information Conference, Vancouver, BC, December)
- Cumming B, Crockett S, Dacombe Dewar L. *The Need to Know* team - collaborative research by non-Winnipeg RHAs, MCHP, and Manitoba Health (*The Need to Know: Collaborative Research* by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 8, Winnipeg MB, October)
- De Coster C. Perspectives on Waiting times: Anecdotes, myths or evidence? [Invited speaker]. (Western Canada Waiting List Benchmark Waiting Times Panel, Calgary AB, December)
- De Coster C. Validity of administrative data to estimate waiting times for elective surgery. (Department of Community Health Sciences Colloquium, University of Calgary, November)
- Finlayson G. Recent advances in estimating health care costs: an international comparison. International Society of Technology Assessment in Health Care 2003. (Panel presentation. Canmore, Canada: June)
- Finlayson G. Using ACGs for morbidity adjustment in considering the association between socioeconomic status and use of diagnostic imaging services. 2003 Johns Hopkins ACG International Risk Adjustment Conference. (Paper presentation. Baltimore: November)
- Forget E, Roos LL, Deber RB, Walld R. The distributional effects of medical savings accounts over a lifetime (Poster session of the Canadian Institutes of Health Research, Institute of Health Services and Policy Research, "Strengthening the Foundations: Health Services and Policy Research Canadian Health Care Symposium", Montreal QC, November)
- Fransoo R, Martens P. Dealing with health information overload: Weaving indicators into meaningful stories. (Abstract) "Future of Rural Peoples: Rural Economy, Healthy People, Environment, Rural Communities", Fifth International Symposium. Saskatoon SK, October)
- Jacobs P, Finlayson G. Costing methods in health technology assessment. International Society of Technology Assessment in Health Care 2003. (Pre-conference workshop. Canmore, Canada: June)
- Katz A. Using administrative data to develop indicators of quality in primary care (Briefing to Health Minister, David Chomiak, and Senior Management Committee, Government of Manitoba, Winnipeg MB, December)
- Katz A. Physician and practice determinants of quality preventive care (The North American Primary Care research group, Banff AB, and Family Medicine Forum, Calgary AB, November)
- Katz A. Supply, Availability and Use of Family Physicians in Winnipeg (Manitoba Medical Association Board, Winnipeg MB, September)
- Katz A. Ethics 101 (*The Need to Know: Collaborative Research* by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 7, Winnipeg MB, June)

Katz A Watson D. Supply, availability and use of family doctors in Winnipeg 1991/92 to 2000/01 (MCHP & WRHA 1st Annual Health Care Day, Winnipeg MB, April)

Kephart G, Muhajarine N, Reid RJ, Roos LL, Fell D. Needs-adjusted use of health services by income and province: The importance of alternative needs indicators (Canadian Population Society 2003 Annual Meeting, Inequalities in health care and health outcomes: Results using linked survey and administrative data session, Dalhousie University, Halifax NS, June)

Kozyrskyj A. Does exposure to cats or dogs protect children from asthma? (World Allergy Organization Congress, Vancouver BC, September)

Kozyrskyj A. WRTC and its connection with NTK (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 7, Winnipeg MB, June)

Kozyrskyj A, Dahl M, Law B, Chateau D, Mazowita GB, Klassen TP. Physician and household determinants of inappropriate antibiotic use in children (poster session of the Pediatric Academic Societies Meeting, Seattle WA, May)

Leslie WD. Diagnostic imaging data in Manitoba: Assessment and application (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 8, Winnipeg MB, October)

Lix L. A framework for modeling regional differences in mortality over time. (Faculty of Kinesiology and Health Studies, University of Regina, April)

Lix L, Algina J, Keselman HJ. A comparison of procedures for the analysis of multivariate longitudinal data (bi-annual meeting of the Canadian Society for Epidemiology and Biostatistics, Halifax NS, June)

Lix L, Algina J, Keselman HJ. Analyzing multivariate repeated measures designs: A comparison of two approximate degrees of freedom procedures (Western Psychological Association, Vancouver BC, May)

Lix L, Algina J, Keselman HJ. Designs: A comparison of two approximate degrees of freedom procedures (Western Psychological Association, Vancouver BC, May)

Lix L, Ekuma O, Menec V, Sirski M, Steinbach C, Soodeen R, Dahl M. Modeling health care use and cost in the last six months of life (American Statistical Association International Conference on Health Policy Research, Chicago IL, October)

Lix L, Ekuma O, Brownell M, Roos LL. A framework for modelling regional differences in mortality over time (bi-annual meeting of the Canadian Society for Epidemiology and Biostatistics, Halifax NS, June)

Lix L, Ekuma O, Brownell M, Roos LL. A framework for modeling regional differences in mortality over time (Faculty of Kinesiology and Health Studies, Colloquium Series, University of Regina, Regina SK, April)

Lix L, Keselman HJ, Hinds A. Two-group multivariate test for non-normal distributions (American Statistical Association International Conference on Health Policy Research, Chicago IL, October)

Martens P. Coming full circle: Learning from a decade of Sagkeeng First Nations' evidence-based breastfeeding strategies ("Breastfeeding: Bringing Evidence to Practice," Mount Sinai Hospital, Toronto ON, November)

Martens P. Evidence and anecdote: Working together for best practice ("Breastfeeding: Bringing Evidence to Practice", Mount Sinai Hospital, Toronto ON, November)

Martens P. Influencing health policy: What works? Learning along the road (CIHR/IHSPR Strengthening the Foundation: Health Services and Policy Research, Montreal QC, November)

Martens P. Coming full circle in primary prevention - diabetes and breastfeeding ("Breastfeeding: Nature's Way," University of Saskatchewan, Regina SK, October)

Martens P. RHA Indicators Atlas (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 8, Winnipeg MB, October)

Martens P. The Manitoba RHA Indicators Atlas (Rural Indicators Workshop, St. John's Newfoundland/Labrador, October)

Martens P. The health of First Nations people in Manitoba (Medical Rehabilitation second year students, Winnipeg MB, September)

Martens P. Survey research 101 (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 7, Winnipeg MB, June)

Martens P. First Nations report (MCHP & WHRA 1st Annual Health Care Day, Winnipeg MB, April)

Martens P. Teen pregnancy and adolescent reproductive health in Manitoba: A population-based analysis. (Abstract) 10th Annual Child and Family Research Symposium-University of Manitoba, Winnipeg, MB, April)

Martens P. The health and health care use of First Nations Manitobans (1st Annual Manitoba Centre for Health Policy and Winnipeg Regional Health Authority Health Care Day, Winnipeg MB, April)

Martens P. Health and health care service use of rural and northern Manitobans: Do they differ from urban rates? (Department of Community Health Sciences, University of Manitoba, Winnipeg MB, November)

Martens P, *The Need to Know* Team, Fransoo R, Burland E, Jebamani L, Burchill C. Health and health care services use of rural and northern Manitobans: Do they differ from urban rates? (Future of Rural Peoples: Fifth International Symposium, Saskatoon SK, October)

Martens P, Fransoo R. Mental Health Report (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 8, Winnipeg MB, October)

Martens P, Romphf L, Burland E, Reimer G. Evaluating the effectiveness of breastfeeding education in South Eastman Regional Health Authority (Department of Community Health Sciences, University of Manitoba, Winnipeg MB, December)

Martens P, *The Need to Know* Team, Fransoo R, Burland E, Jebamani L, Burchill C. Health and health services use of rural and northern Manitobans: Do they differ from urban rates? (CIHR/IHSPR's National Symposium, Montreal QC, November)

Menec V, Lix L, MacWilliam L. Living longer, living healthier? Trends in the health status of older Manitobans. (Canadian Association on Gerontology conference, Montreal, November)

Menec V, Sirski M, Attawar D. Discrepancies in self-report versus visit-based measures of continuity of care: Implications for primary care reform. (Canadian Association on Gerontology conference, Montreal, November)

Menec, V. Knowledge translation: An example from the Manitoba Centre for Health Policy. (Strengthening the Foundations: Health Services and Policy Research, Montreal, November)

Menec V. Patterns of healthcare use and cost at the end of life (*The Need to Know*: Collaborative Research by the Manitoba Centre for Health Policy, Rural and Northern Regional Health Authorities, and Manitoba Health Team Workshop No. 8, Winnipeg MB, October)

Menec V. Patterns of health care use at the end of life (MCHP & WRHA 1st Annual Health Care Day, Winnipeg MB, April)

Menec V. Patterns of health care use at the end of life (1st Annual Manitoba Centre for Health Policy and Winnipeg Regional Health Authority Health Care Day, Winnipeg MB, April)

Murray RP, Ekuma O, Barnes GE. Feeling the effects versus eight or more drinks as predictors of cardiovascular harm: A prospective analysis of the Winnipeg Health and Drinking Survey (WHDS) (29th Annual Alcohol Epidemiology Symposium of the Kettil Bruun Society for Social and Epidemiological Research on Alcohol, Krakow Poland, June)

Newburn-Cook C, Heaman M, Schopflocher D, Forget E, Jacobs P, Casiro O, Blanchard J, Sauve R, Roos L, Scott M Wright Direct Medical Costs of Preterm Birth from Birth to Age Seven Years: A Population-Based Study in Manitoba. (Canada Research Conference, November)

Roos LL, Magoon J, Gupta S, Chateau D, Veugelers PJ. Socioeconomic determinants of mortality in two Canadian provinces: Multilevel modelling and neighbourhood context (poster session of the Canadian Society of Epidemiology and Biostatistics Meeting, Halifax NS, June)

Roos LL, Magoon J, Gupta S, Chateau D, Veugelers PJ. Socioeconomic determinants of mortality in two Canadian provinces: Multilevel modelling and neighbourhood context (Canadian Population Society 2003 Annual Meeting, Socio-economic status and health session, Dalhousie University, Halifax NS, June)

Roos N. Does universal comprehensive insurance encourage unnecessary use? Evidence from Manitoba says "no". (Department of Community Health Sciences noon colloquium, University of Manitoba, Winnipeg, October)

Roos N, Kozyrskyj A. Standing Committee on Health of the House of Commons. (Winnipeg, October)

Shapiro E. The Romanow Commission Report and Home Care. (Twentieth Annual McMaster Summer Institute on Gerontology, McMaster University, Hamilton, Ontario, May)

Shapiro E. Bridging the Gap Between Research and Policy. (address to the National Seniors' Forum on Research convened by the Institute of Aging, Canadian Institutes of Health Research, Ottawa, Ontario, May)

Sirski M, Attawar D, Menec V. The benefits of continuity of care for older adults: Is having a regular doctor better than having a regular clinic? (Canadian Association on Gerontology conference, Montreal, November)

Education

Courses Taught in the Department of Community Health Sciences

Number	Title	Instructor
93.735	Research Methods in Health Care	Verena Menec
93.749	Empirical Perspectives on Social Organization and Health	Anita Kozyrskyj
93.757	Managing Health Systems	Anita Kozyrskyj
93.747	Biostatistics I-tutorials	Patricia Martens
93.748	Biostatistics II-tutorials	Patricia Martens
93.742	Pharmacoepidemiology	Colleen Metge
93.731	Epidemiology of Health Care	Les Roos

Courses Taught in Other Departments

Department	Course title	Instructor
Pharmacy	Principles of Professional Practice	Anita Kozyrskyj

Other Teaching Activities

Activity	Instructors	Contact hours
Lectures	Carolyn De Coster, Alan Katz, Anita Kozyrskyj, Patricia Martens, Verena Menec, Colleen Metge, Leslie Roos	44
Tutorials	Carolyn De Coster, Anita Kozyrskyj, Lisa Lix, Patricia Martens, Verena Menec,	46
Supervision	Leslie Roos, Noralou Roos	55
Exam set-up and marking	Anita Kozyrskyj, Patricia Martens	32
Colloquium Coordination	Lisa Lix, Patricia Martens	114
CHSRF Career Renewal Award Mentorship	Leslie Roos	50

Education Resources

MCHP's commitment to training researchers extends to students in such fields as Epidemiology and Health Services Research. To this end, the education resources page (<http://www.umanitoba.ca/centres/mchp/teaching.html>) provides links to site-specific (e.g. Epidemiology of Health Care, SAS & Geocoding tutorials) and off-site teaching materials (e.g. Epidemiology Supercourse). Many of these resources incorporate links to the Concept Dictionary and other documents available on the MCHP website.

To this end, the Education Resources page provides links to site-specific and off-site teaching materials. The outline and readings for the graduate course, *Epidemiology of Health Care*, incorporate links to the Concept Dictionary and other documents available on the MCHP website. Other MCHP-produced teaching resources include tutorials for using SAS and ArcView. MCHP researchers have contributed several lectures to the University of Pittsburgh's Epidemiology Supercourse, garnering international interest in MCHP; links to these lectures are also included on the Education Resources page.

Graduate Student Supervision

Student Name	Degree Sought	Advisor	Committee Member	Faculty Name
Bodnarchuk, Jen	PhD		Yes	Patricia Martens
Burland, Elaine	PhD	Yes	Yes	Patricia Martens Marni Brownell
Clara, Ian	PhD		Yes	Lisa Lix
Cleary, Eilish	MSc	Yes		Patricia Martens
Franklin, Jonathon	PhD	Yes		Anita Kozyrskyj
Fransoo, Randy	PhD	Yes	Yes	Noralou Roos Patricia Martens
Hayden, Leigh	MSc		Yes	Alan Katz
Hiebert, Shirley	PhD		Yes	Patricia Martens
Hinds, Aynslie	MSc	Yes		Lisa Lix
Kelly, Karen	PhD	Yes		Leslie Roos
Kleysen, Rob	PhD		Yes	Norm Frohlich
Lambert, Pascal	MSc	Yes		Verena Menec
Lawanga, Charlotte	MSc		Yes	Lisa Lix
McDonald, Kara	MSc	Yes	Yes	Anita Kozyrskyj Lisa Lix
McGoon, Jennifer	MSc	Yes		Patricia Martens
McMaster, Romy	MSc	Yes	Yes	Anita Kozyrskyj Lisa Lix
Nelson, Michelle	MSc		Yes	Alan Katz
Pidlubny, Shannon	MSc	Yes		Anita Kozyrskyj
Prior, Heather	MSc		Yes	Lisa Lix
Libich, William	MSc	Yes		Anita Kozyrskyj
Ringer, Carol	PhD	Yes		Verena Menec
Ross, Susan	MA		Yes	Evelyn Shapiro
Siemens, Barbara	MSc	Yes	Yes	Anita Kozyrskyj Patricia Martens
Thiele, Kevin	MSc	Yes		Verena Menec
Thompson, Genevieve	PhD	Yes		Verena Menec
Turner, Nancy	MSc (U of Regina)		Yes	Lisa Lix
Uhanova, Julia	MSc	Yes		Leslie Roos

KNOWLEDGE TRANSFER

Briefings

Prior to the release of a deliverable, Manitoba Health, including the Deputy Minister and Minister receives briefings which highlight the outcomes and recommendations of the particular report.

Additional briefings on the 2003/04 reports were provided to the WRHA and other specialty groups within the WRHA such as Senior Management, Program Team Managers, Family Medicine, Internal Medicine, Medical Nursing Team, Allied Health, and Emergency Medicine Team. Other groups include: Health Canada, Indian and Northern Affairs, Statistics Canada, Assembly of Manitoba Chiefs Health Committee, Assembly of Manitoba Chiefs Health Information and Research Committee, First Nation Groups in surrounding areas of The Pas and Thompson, Nor-Man and Central RHA Board of Directors and First Nation and Inuit Health Branch.

Media Interviews

Part of MCHP's mandate is to broaden and inform the debate about health, the health care system, and the determinants of population health. MCHP researchers are interviewed by journalists not only when a deliverable report is released, but also when there are other topics of interest. The following is a sample of such interviews.

2004

Katz A. Using Administrative Data to Develop Indicators of Quality in Family Practice. Interview with Kasey Wilson on CJOB radio, March 25, 2004.

Katz A. Using Administrative Data to Develop Indicators of Quality in Family Practice. Interview with Mia Robson, Winnipeg Free Press, March 26, 2004.

Katz A. Using Administrative Data to Develop Indicators of Quality in Family Practice. Interview with Roger Currie on CBC Manitoba Radio One, March 26, 2004.

Martens P, Katz A. Budget and its impact on health care. Interview with CTV National News, Winnipeg, MB, March 26, 2004.

Menec V. Patterns of health care use and cost at the end of life. Interview with Trevor Willhelm, Winnipeg Free Press, February 18, 2004.

Menec V. Patterns of Health Care Use and Cost at the End of Life. Interview with Myron Love, Medical Post, March 16, 2004

Roos NP, Martens P. Waiting times for diagnostic procedures – rural/urban differences on Manitoba Health's website. Interview with Arvelle Gray CBC Radio Noon Show, January 16, 2004.

2003

De Coster C. Waiting times. Interview with Tom Walkom, Toronto Star, article "Still waiting, A year ago Roy Romanow recommended ways to shorten wait times for surgery but Ottawa and the provinces have done little". November 29.

Kozyrskyj A. Pharmaceuticals: Therapeutic Interchange and Pricing Policies. Interview with David Kauxhaus, Winnipeg Free Press, November 6.

Kozyrskyj A. Pharmaceuticals: Therapeutic Interchange and Pricing Policies. Interview with Arvel Gray, CBC radio, November 6.

Kozyrskyj A. Pharmaceuticals: Therapeutic Interchange and Pricing Policies. Interview with Steve Lambert, Canadian Press, November 6.

Metge C. Interview with Alexandra Paul, Winnipeg Free Press on the report "Pharmaceuticals: Focussing on Appropriate Utilization", June 24.

Metge C. Interview with Margaux Watt, CBC Information Radio on the report "Pharmaceuticals: Focussing on Appropriate Utilization", June 24.

Metge C. Interview with Kevin Engstrom, Winnipeg SUN on the report "Pharmaceuticals: Focussing on Appropriate Utilization", June 24.

Newburn-Cook C, Heaman M, Schopflocher D, Forget E, Jacobs P, Casiro O, Roos LL, Blanchard JF. Direct medical costs of preterm birth to age seven (Presented at the Society of Obstetricians and Gynaecologists of Canada (SOGC) Annual Clinical Meeting in Charlottetown, PEI, June.

Roos LL. Delivering equitable care: Comparing preventive services in Manitoba. Interview with Dave Square, Medical Post, December 10.

Roos LL. Delivering equitable care: Comparing preventive services in Manitoba. Interview with Eliza, Brandon Sun, December 9.

Roos NP. Mental health issues. Interview with John Sullivan, Winnipeg Free Press, September 3, 2003.

Watson D. Interview with Margaux Watt, CBC Information Radio on the report "Supply, Availability and Use of Family Physicians in Winnipeg", June.

Watson D. Interview with Alexandra Paul, Winnipeg Free Press on the report "Supply, Availability and Use of Family Physicians in Winnipeg", June.

Media Releases

2004

Manitoba Doctors Get An "A". Media Release for Manitoba Centre for Health Policy report on *Using Administrative Data to Develop Indicators of Quality in Family Practice*, March 25, 2004.

Where Will You Die? Media Release for Manitoba Centre for Health Policy report on *Patterns of Health Care Use and Cost at the End of Life*, February 17, 2004.

2003

More Generic Drugs Could Cut Costs, Save Millions Each Year. Media Release for Manitoba Centre for Health Policy report on *Pharmaceuticals: Therapeutic Interchange and Pricing Policies*, November 6, 2003.

Is Your Prescription Right for You? Media Release for Manitoba Centre for Health Policy report on *Pharmaceuticals: Focussing on Appropriate Utilization*, June 24, 2003.

What's All This About Doctor Shortages? Media Release for Manitoba Centre for Health Policy report on *Supply, Availability and Use of Family Physicians in Winnipeg*, June 18, 2003.

Map of Manitobans' Health Produced. Media Release for Manitoba Centre for Health Policy report on *The Manitoba RHA Indicators Atlas: Population-Based Comparisons of Health and Health Care Use*, June 12, 2003.

RBC Financial Group Visiting Research Chair:

Dr Fiona Stanley, founding Director of the Telethon Institute for Child Health Research and Chief Executive Officer of the Australian Research Alliance for Children and Youth visited MCHP in February 2004. The Institute was established in Perth in 1990. It is multi-disciplinary and researches prevention of major childhood illnesses. The Australian Research Alliance for Children and Youth is a national organization that was formally constituted in June 2002 with an agenda to improve the health and well-being of young Australians. Dr Stanley's career has focused on the importance of using population data and research to provide significant health, social and economic benefits to the community. Dr Stanley is also Professor, School of Paediatrics and Child Health, University of Western Australia. She was awarded National Australian of the Year in 2003.

While in Winnipeg, Dr Stanley gave a special presentation at the Department of Community Health Sciences Colloquium, "Before the Bough Breaks: Implementing a Child Development Agenda in Australia." She also presented, "The Special Case for Aboriginal Children: Research Experience from Western Australia" at Pediatric Grand Rounds and also to the Centre for Aboriginal Health Research. She attended Success Starts Early: 2004 ECD Forum with Fraser Mustard and members of government, met with members of Healthy Child Manitoba, Manitoba Institute for Child Health, Red River College Early Development Program, Department of Pediatrics at the University of Manitoba and the Winnipeg Regional Health Authority.

MCHP CentrePiece Newsletter

Our newsletter, CentrePiece is published twice annually. Read our latest edition, Issue # 15, Summer, 2004.

Rural & Northern Health Care Days

MCHP hosts an annual Rural and Northern Health Care Day, designed specifically to highlight MCHP research of relevance to the rural and northern Regional Health Authorities of Manitoba. The format for the day is workshop-oriented, whereby reports are highlighted and then further explored in facilitated round-table discussions by each RHA. The 10th annual day was held on October 8, 2003 and chaired by Dr. Patricia Martens. The focus was on one MCHP report—the RHA Indicators Atlas (P. Martens).

The attendance was overwhelming, with 135 people representing every RHA of the province! Moreover, for the second time the RHA Team members of *The Need To Know* project were involved with the facilitation of the research discussions. The 3 representatives of the Team—Lorraine Dacombe Dewar (Manitoba Health), Bev Cumming (Brandon RHA), Sue Crockett (Nor-Man RHA), did a presentation on what *The Need To Know Team* is and how it has been an effective way to encourage member/user collaboration. The highlight of the afternoon was a plenary speech by Ray Bollman from Statistics Canada, on "Rural Canada: From Strength to Strength" The audience was then treated to brief overviews of two reports—Patterns of Health Care Use and Cost at the End of Life (V. Menec), and Diagnostic Imaging Data in Manitoba (B. Leslie), as well as a concurrent computer session on Excel Spreadsheet for RHA maps/charts (R. Fransoo, E. Burland and L. Jebamani).

Evaluation comments received from those in attendance:

"good presentation on The Need To Know background, goals etc. and simplified epidemiology terms/concepts. The small group session was a good informal exchange of views, ideas. Lunch was excellent and the meeting place was comfortable and quiet". (Manitoba Health staff)

“The Atlas will assist in future planning and indicator development, working with the RHA to look at regional specific graphs, good food, a great explanation of the Atlas. I am looking forward to the formal reports to come. Economics report was excellent.” (RHA executive/manager)

WRHA/MCHP Health Care Day

MCHP, jointly with the WRHA, planned the second WRHA/MCHP Health Care Day April 20, 2004, chaired by Dr. Patricia Martens. This was patterned after the first WRHA/MCHP Health Care Day workshop. The workshop was held at Deer Lodge Facility’s Learning Centre, with the highlight being “Physician Report: Supply, Availability and Practice Patterns of Family Physicians in Winnipeg” and “Indicators of Quality of Care of Physician Practice” (Dr. A. Katz). It was then followed by round-table facilitated discussions led by MCHP staff (researchers, research coordinators, research assistants, and programmers). Before lunch, each group shared their insights from the group discussions. The afternoon included brief overviews of upcoming deliverables—“Focusing on Pharmaceuticals Reference-Based Pricing”, “High Cost—High Frequent Pharmaceutical Use” (Dr. A. Kozyrskyj) and “Patient Safety Deliverable—A work in progress” (Dr. S. Bruce)

Evaluation comments received from those in attendance:

“Very impressed with variety of reports and data that contribute to a more improved health system. Very helpful in my role as a council member of Community Health Advisory Council”.

“Well organized, very interesting as a front line worker to look at research issues—the move is to have practice based on evidence. Interesting to see some of the strengths and weaknesses of how evidence is gathered. The Pharmacare/funding issues were very interesting and timely”.

MCHP/Manitoba Health Day

MCHP, jointly with Manitoba Health, planned the first ever MCHP/Manitoba Health Day, March 10, 2004, chaired by Dr. Patricia Martens. This was brought forth at the request of Manitoba Health’s Deputy Minister due to the success of the MCHP Rural and Northern Health Care Day. The workshop was held at Deer Lodge Facility’s Learning Centre, with the highlight being RHA Indicators Atlas 2003 (P. Martens) followed by round-table facilitated discussions led by joint teams of Manitoba Health people and MCHP staff (researchers, research coordinators, research assistants, and programmers). Before lunch, each group shared their insights from the group discussions. The afternoon included brief overviews of 2 deliverables on two topics—Patient Safety—A Work in Progress (S. Bruce) and A Look at Two Pharmaceutical Deliverables (A. Kozyrskyj). An overview was given by Louis Barre—Dissemination & Uptake Process of Reports followed by a fascinating discussion on how Manitoba Health can ensure dissemination and use of research reports within the entire organization. Attendance was over 50 with anticipation to break that number next year!

Evaluation comments received from those in attendance:

“Better than I had anticipated, the roundtable discussions and particularly shared insights were great. The walk-through of the RHA Indicators Atlas and focus on Particular areas was helpful”.

“Excellent day—well planned; kudos to the planners—definitely do each year, good speakers, great idea to mix up the participants”.

“Group work—good that groups picked at random—promoted collaboration – lunch great, well organized. The patient safety deliverable was good to review”.

The Need To Know Team Events

The Need To Know project involves collaborative research by MCHP, the ten non-Winnipeg RHAs, and Manitoba Health. High-level planners and decision-makers from each RHA are chosen to attend these meetings. This is funded through the Canadian Institutes of Health Research (the Community Alliances for Health Research Program 2001—2006: PI P. Martens and C. Black). The goals of this project are (a)

to create new knowledge directly relevant to the rural and northern RHAs; (b) to develop useful models for health information infrastructure, training, and interaction that will increase and improve capacity for collaborative research; and (c) to disseminate and apply health services research so as to increase the effectiveness of health services, and ultimately the health of RHA populations.

The team meets three times per year, for two-day sessions in Winnipeg. These meetings are designed to respond to the goals by including relevant activities. Due to the enthusiasm of all participants and the CEOs of the RHAs, the team has expanded from one to two persons per RHA. The Team has completed their first research report—The Manitoba RHA Indicators Atlas: Population-Based Comparisons of Health and Health Care Use—which was released in June 2003. The second collaborative research project is nearly complete—a deliverable focusing on mental health issues, to be released in fall 2004. A third project has just begun, looking at sex differences in health, health care use patterns and quality of care issues. The two-day meetings of the Team incorporate a variety of sessions designed to encourage two-way learning between researchers and planners/policy-makers. This has included a huge variety of sessions, such as “Statistics 101”, using research in organizations, computer training sessions on poster-making, planning for disseminating deliverable information throughout the RHAs, and how to conduct survey research. A key element of the project is the evaluation component by Sarah Bowen. Through in-person interviews and surveys of the team members and key stakeholder groups (including the RHA CEOs), Sarah is trying to examine how knowledge transfer takes place, what works and what does not, and what improvements can be made to the project itself. Despite the intensity of the meetings, *The Need To Know* team also finds time to have fun and learn creatively at the lunch and dinner meetings. The team has been spreading the word of its success through oral and poster presentations at such diverse research forums as Montreal and St. John’s Newfoundland/Labrador. People throughout Canada are taking note of the success of a collaborative research approach, and how it is being fine-tuned in Manitoba!

Training

GIS Workshops

Two GIS Workshops were given by Charles Burchill. The students were from MCHP, CancerCare, CAHR, WRTC Students, Manitoba Health and the Department of Community Health Sciences.

SAS Tutorials

The SAS Tutorials ranged from a beginning to an intermediate level and consisted of four half-day sessions; one in October 2003 (students came from the Department of Community Health Sciences, CancerCare, Brandon University and WRHA). In February of 2004, students came from a wide variety of areas such as CancerCare Manitoba, Community Health Sciences and Manitoba Health. This tutorial was taught by Shelley Derksen and Charles Burchill. Charles Burchill, Jen Bodnarchuk and Ruth-Ann Soodeen also taught an Advanced SAS course in October. Those students were from MCHP and CancerCare.

Social Programs Database Orientation

On August 13, Shirley Forsyth and Jen Bodnarchuk oriented Youville Centre staff to MCHP's Social Programs Database. The Database is a collection of programs offered by community centres and other organizations in Winnipeg—everything from soccer and skating to anger management and cooking classes. Youville received a copy of the Database, and since the data were collected in 2000, their first step is to begin updating the information for their communities. They plan to use the database to help their clients find social and recreational programs in St. Boniface and St. Vital. If this project goes well, the updating and use of the Social Programs Database may expand to other areas of the city.

Visitors

Dr. John Oswald, Director, Center for Health Statistics, Minnesota Department of Health visited MCHP in August, 2003. Dr. Oswald's research group is a joint collaboration between the Minnesota Department of Health and the University of Minnesota School of Public Health.

In October we were pleased to host Dr. Ronald LaPorte, Director, Disease Monitoring and Telecommunications, WHO Collaborating Center, Pittsburgh, PA. Dr. LaPorte gave a talk on his Supercourse.

MCHP's Web site

MCHP's external web site emphasizes content over technology in web site development by cost-effectively combining functions. Documentation and dissemination overlap to keep marginal costs low as does the process of integrating this material with lectures and courses.

MCHP began monitoring web site use in January 1998 using access logs from the University of Manitoba Apache WWW server. This approach permits counting the number of "hits" and unique hosts accessing and loading information from specified Web site locations. A hit is counted once for every time a browser goes to the server and requests a new Web page. A host represents a unique internet ID, either the IP (internet protocol) number or the resolved host name.

Care is required when interpreting information generated by automated computer monitoring. Hits, for example, are counted once for each graphic file within a web page and once for every time internet crawlers or "bots" are automatically sent by search engines as they update their own sites. Graphic files have been excluded from the counts in the graphs below (Figures 1 and 2), but internet crawlers are not always easily identified. As well, certain hosts may represent a network of firewalled users who are not distinguishable using this method (for example, one host may represent 50 different users). On the other hand, because of the Concept Dictionary use at Monash University in Australia and "mirroring" of Epidemiology Supercourse lectures in approximately 39 servers worldwide, these figures might represent an underestimate of international interest.

Figure 1. Average Number of Hits per Day

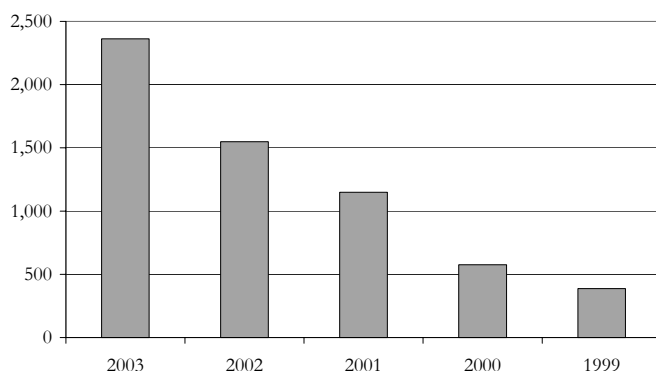
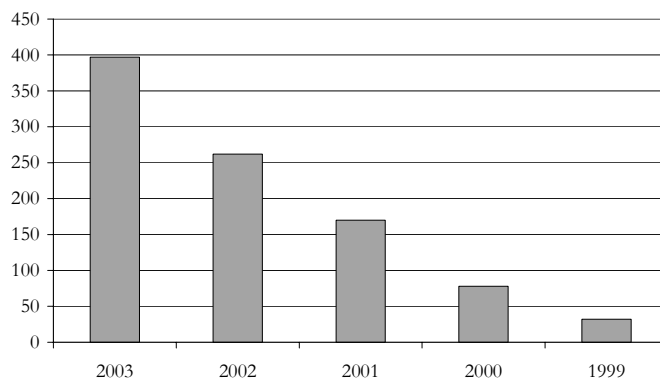


Figure 2. Average Number of Hosts per Day



Figures 1 and 2 track the average number of hits and hosts per day from 1999 to the current year for the entire web site. The total average number of unique hosts accessing the MCHP Web site has basically doubled for each consecutive year. In 2003/04 there was an average of 400 hosts accessing our site each day with 2361 page requests. This compares to 2002/03 where there were 302 hosts with 1690 page requests. The actual number of hits/hosts in each month is available here: http://www.umanitoba.ca/centres/mchp/access_record.

Research Resources

MCHP's emphasis on knowledge sharing and consistency in research design led to the development of a publicly-accessible, web-based knowledge repository (see <http://www.umanitoba.ca/centres/mchp/concept/>) in 1996. By making explicit the assumptions associated with use of each research measure, the repository tools encourage the use of standard terminology and methodology, help to preserve institutional knowledge, prevent duplication of effort, facilitate collaboration, and aid project management. They also enhance collaboration among researchers within a research unit and across centres using similar or identical technology.

The central component of MCHP's knowledge repository is the Concept Dictionary, which operationally defines key measures and terms used by health researchers working with administrative data. Organized alphabetically, the Concept Dictionary comprises well over 200 concepts. Concepts are process documents that describe how to calculate, validate, or define, indicators and measures. They are developed directly out of Centre research projects and represent what programmers and researchers believe to be important for research continuity. Concepts include a brief definition of the term, descriptions of alternate formulations, and discussions of associated problems and analytic strategies. As much as possible, the SAS code necessary to implement the concept is also included. Further, each concept is cross-referenced to related concepts and other documents on MCHP's website, or external websites as appropriate. Contact information for local 'experts' and links to important references are also provided. To date, over 200 concepts have been documented, indexed, and linked.

A Glossary (<http://www.umanitoba.ca/centres/mchp/concept/thesaurus/thesaurus.glossary.html>) provides short definitions of important terms found in MCHP reports and publications. It facilitates navigation through the research terms and abbreviations found within the Concept Dictionary, making the Dictionary accessible to a wider audience. Each entry also includes hyperlinks to other related glossary terms, concepts, and references for key reports or papers. Students and website users who are not very familiar with health services and population-based research find the Glossary particularly helpful as they visit the website or read Centre publications. New terms are added to the Glossary as required whenever new reports are released from the Centre. A recent count identified over 1200 Glossary entries.

In keeping with the nature of the Internet, the content and format of the Concept Dictionary and related tools are dynamic and they expand as working knowledge requires documentation. For example, the pharmaceutical data available in MCHP's Population Health Research Data Repository add an important dimension to Centre research and have great potential for creative analyses. To support such work, more extensive documentation was deemed necessary. Thus, preparing this documentation and incorporating it into the Concept Dictionary became a key project for the researchers and programmers most familiar with the data and for the Concept Dictionary project team. This work is near completion.

Usage statistics help MCHP set priorities for updating our on-line tools. For example, in response to these data and the need to keep web content current, the Medical/Research Definitions section was identified for 'renovations.' This section defines codes (i.e. ICD-9-CM, DRG, RDRG, CMG) for diagnoses, surgical procedures, and tests analyzed at MCHP. As much as possible, content generated directly from MCHP research is being re-located into the Concept Dictionary to maximize its utility. This move provides website users with more detailed descriptions of the methods necessary to implement these definitions and provides them with a contact name if they require further assistance.

Another related resource that has been well-received by researchers at the Centre and elsewhere is the Research Protocol (<http://www.umanitoba.ca/centres/mchp/protocol/index.shtml>). The Protocol facilitates the planning and carrying out of studies, addressing topics such as proposal preparation, project management, data analyses, and dissemination of results. It includes new material describing key steps in analyzing administrative data, while incorporating, as much as possible, links to information already existing in other locations on the MCHP website, such as the Concept Dictionary.

ADVISORY BOARD MEMBERS

The role of the Advisory Board is to develop a broad perspective on problems confronting our health system and potential solutions, advise and assist MCHP to determine an appropriate set of activities to meet its goals and objectives, and to assure the long-term viability of MCHP. The Board meets twice a year. The following people served as members of MCHP's Advisory Board for all or part of the fiscal year ending March 31, 2004.

CHAIR:

Brian Postl, MD, Chief Executive Officer, Winnipeg Regional Hospital Authority

MEMBERS:

Ken Brown, MD, MBA, Registrar, Chair, Health Research Ethics Board, Faculty of Medicine, University of Manitoba

John Clarkson, Deputy Minister, Energy, Science and Technology, Province of Manitoba

Michael Decter, Chair, Board of Directors, Canadian Institute for Health Information

Barry Garbutt, Dean, Applied Sciences, Red River College of Applied Arts, Science and Technology

Brian Hennen, MD, CCFP, Dean, Faculty of Medicine, University of Manitoba

Robert Kerr, PhD, Vice-President Academic and Provost, University of Manitoba

Arthur V. Mauro, OC, OM, QC, LLD, Counsel, Aikins Macaulay and Thorvaldson; Chair, Board of Directors, Winnipeg Airport Authority

Tannis Mindell, Secretary to the Treasury Board, Province of Manitoba

J. Fraser Mustard, MD, PhD, OC, Founding President, Canadian Institute for Advanced Research

John O'Neil, PhD, Head, Department of Community Health Sciences, University of Manitoba

Leslie L. Roos, PhD, Director Emeritus, Manitoba Health Research Data Repository, Manitoba Centre for Health Policy; Professor, Department of Community Health Sciences, Faculty of Medicine, University of Manitoba

Noralou P. Roos, PhD, Director Emeritus, Manitoba Centre for Health Policy; Professor, Department of Community Health Sciences, Faculty of Medicine, University of Manitoba

Pat Rowantree, Deputy Minister, Advanced Education and Training; Deputy Minister, Education, Citizenship and Youth, Province of Manitoba

Penny Sorensen, CEO, Assiniboine Regional Health Authority

Milton Sussman, Deputy Minister of Health, Deputy Minister of Healthy Living, Province of Manitoba

Mark Taylor, MD, Deputy Head, Department of Surgery, St Boniface General Hospital; Associate Professor, University of Manitoba

Debra Woodgate, Deputy Minister, Family Services and Housing, Province of Manitoba

FACULTY AND STAFF

Researchers and Senior Researchers

Ruth Bond, Research Co-ordinator
Marni Brownell, Researcher
Dan Chateau, Post-Doctoral
Carolyn De Coster, Senior Researcher and Communications Coordinator
Greg Finlayson, Researcher
Shirley Forsyth, Researcher
Randy Fransoo, Research Coordinator
Norm Frohlich, Senior Researcher
Anne Guèvremont, RBC Financial Group Research Fellow
Alan Katz, Visiting Faculty
Anita Kozyrskyj, Researcher
Lisa Lix, Researcher
Patricia Martens, Senior Researcher
Nancy McKeen, Researcher
Verena Menec, Researcher
Colleen Metge, Researcher
Lori Mitchell, Research Coordinator
Leslie Roos, Senior Researcher and Director of Data Repository
Noralou Roos, Director and Senior Researcher
Evelyn Shapiro, Senior Researcher
Ruth-Ann Soodeen, Research Coordinator

Systems Development, Programming, Security and Technical Support

Bogdan Bogdanovic, Systems Analyst
Charles Burchill, Senior Systems Analyst and Security Coordinator
Don Fotti, Programmer
Matthew Dahl, Senior Programmer
Shelley Derksen, Systems Analyst
Natalia Dik, Programmer Analyst
Oke Ekuma, Programmer Analyst
Leonard MacWilliam, Systems Analyst
Rod McRae, Senior Systems Analyst
J Patrick Nicol, Systems Consultant
Monica Sirski, Programmer Analyst
Carmen Steinbach, Programmer Analyst
Ken Turner, Senior Programmer
Randy Walld, Systems Analyst
Marina Yogendran, Systems Analyst
Heather Prior, Senior Programmer

Finance and Research Support

Jo-Anne Baribeau, Research Support
Theresa Daniuk, Research Support
Louise Ferris, Research Support
Janine Harasymchuk, Research Support
Darlene Harder, Research Support
Linda Henderson, Finance Support
Phyllis Jivan, Research Support

Linda Kostiuk, Finance and Research Support
Carola Lange, Finance Support
Shannon Lussier, Research Support
Eileen Pyke, Research Support and Education Coordinator
Bonnie Sheppard-Lewis, Research Support

Administration

Paulette Collins, Senior Administrator
Debbie Molina, Financial Officer
Carole Ouelette, Executive Assistant

Student Research Assistants

Continuing

Jennifer Bodnarchuk, Elaine Burland, Sumit Gupta, Laurel Jebamani, Jennifer Magoon, Paul Willetts

Summer

Anna Dyck, Sam Kovnats

ASSOCIATES

The designation of *Associate* of the Manitoba Centre for Health Policy was created to recognize the valuable contribution made to its research by external participants. Associates are involved in collaborative research with an MCHP Researcher, have an ongoing commitment to health services research, have previous research involvement with scholarly publications, and/or have clinical/policy expertise that is of assistance to MCHP Researchers in framing research questions, interpreting results of particular analyses and advising on the policy implications of the findings.

Nick Anthonisen, MD, PhD, Professor, Department of Internal Medicine, University of Manitoba

Fred Aoki, MD, Professor, Department of Medical Microbiology, University of Manitoba

Charlyn Black, MD, ScD, Director, Centre for Health Services and Policy Research; Professor, Department of Health Care and Epidemiology, University of British Columbia

Sharon Bruce, PhD, Assistant Professor, Department of Community Health Sciences, University of Manitoba

Shelley Buchan, MD, FRCP, Medical Officer of Health, Regional Health Authority-Central Manitoba Inc.

Keumhee Chough Carrière, PhD, Professor, Department of Mathematical Sciences, University of Alberta

Tom Carson, Former Deputy Minister of Culture, Heritage and Tourism, Province of Manitoba

Eilish Cleary, MD, Chief Medical Officer of Health, North Eastman Health Association Inc.

Raisa Deber, PhD, Professor, Department of Health Policy, Management and Evaluation, Faculty of Medicine, University of Toronto

Albert DeVilliers, MB.Ch.B, Regional Medical Officer of Health, Burntwood Regional Health Authority

Evelyn Forget, PhD, Professor, Department of Community Health Sciences, Faculty of Medicine, University of Manitoba

Betty Havens, DLitt, Professor and Senior Scholar, Department of Community Health Sciences, University of Manitoba; Research Fellow, Statistics Canada

Maureen Heaman, RN, PhD, Associate Professor, Faculty of Nursing, University of Manitoba

Philip Jacobs, D Phil, CMA, Professor, Public Health Sciences, Faculty of Medicine, University of Alberta

Meir Kryger, MD, FRCPC, Professor and Director, Sleep Disorders Centre, Faculty of Medicine, University of Manitoba; Division Head, Education, World Health Organizations World-Wide Project on Sleep Disorders

Barbara Law, MD, FRCPC, Associate Professor, Department of Pediatrics and Child Health, and Department of Medical Microbiology, University of Manitoba; Section Head, Pediatric Infectious Diseases, Children's Hospital, Health Sciences Centre

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

Jure Manfreda, MD, Associate Professor, Departments of Community Health Sciences and Internal Medicine, University of Manitoba

Blake McClarty, MD, FRCP, Associate Professor, Department of Radiology, University of Manitoba; Clinical and Research Director, Magnetic Resonance Imaging Unit, St. Boniface General Hospital

Nazeem Muhajarine, PhD, Associate Professor and Research Faculty, Department of Community Health and Epidemiology, University of Saskatchewan

Robert P Murray, PhD, Associate Professor and Director, Alcohol and Tobacco Research Unit, Department of Community Health Sciences, University of Manitoba

Cameron Mustard, ScD, Professor, Department of Public Health Sciences, University of Toronto; President and Scientific Director, Institute for Work and Health, Toronto

John O'Neil, PhD, Head, Department of Community Health Sciences, University of Manitoba

Robert Reid, MD, PhD, Associate Director, Department of Preventive Care, and Investigator, Center for Health Studies, Group Health Cooperative of Puget Sound, Seattle, Washington

Jan Roberts, MD, PhD, Medical Officer of Health, South Eastman Region, Manitoba; Assistant Professor, Department of Community Health Sciences, University of Manitoba

Phil St. John, MD, MPH, Assistant Professor, Department of Internal Medicine, University of Manitoba

Estelle Simons, MD, FRCPC, Bruce Chown Professor and Head, Section of Allergy and Clinical Immunology, Department of Pediatrics and Child Health, University of Manitoba

Leonie Stranc, PhD, Senior Statistical Analyst, Decision Support Services, Manitoba Health

Diane Watson, PhD, Assistant Director, Institute of Health Services and Policy Research; Research Associate, Centre for Health Services and Policy Research, University of British Columbia

COMMITTEES

Marni Brownell

- CIHR Doctoral Research Award Committee member, Canadian Institutes of Health Research
- Core member, Canadian Institute for Advanced Research, New Investigators Network
- Internal Advisory Committee member, Manitoba Health Injury Surveillance Report
- Peer Review Committee member, The Canadian Initiative on Social Statistics (CISS), Strategic Joint Initiative of SSHRC and Statistics Canada
- Working group member, "Need to Know" Mental Health Report
- Planning committee member, International Child Health Services Research Meeting

Carolyn De Coster

- Manitoba Health Data Architecture Working Group
- Review Panel, Knowledge Translation Strategies for Health Research, Canadian Institutes of Health Research,
- Steering Committee, Winnipeg Regional Health Authority-WCWL Implementation
- Steering Committee, Western Canada Waiting List Project, Phase 2
- Research Committee, Western Canada Waiting List Project, Phase 2
- Ophthalmology Headship Search Committee, Faculty of Medicine, University of Manitoba
- Hospital Abstract Users Group
- Health Information Technologist Advisory Committee, Red River College
- Manitoba Health Hospital Abstracting Advisory Group

Greg Finlayson

- Director, Carolyn Sifton Foundation Inc.
- Student Senator, University of Illinois at Chicago
- Member, University of Illinois School of Public Health, Committee on Educational Programs
- Member, University of Illinois at Chicago Senate Budget and Planning Committee
- Member, University of Illinois at Chicago Senate Research Committee

Norm Frohlich

- Member Panel of SSHCR Research Grants Division
- Member Dean's Advisory Council
- Member, Search Committee for the Warren Chair in Actuarial Studies
- Community Health Sciences Search Committee for two tenure track appointments
- National Tri-Council Panel of Research Ethics

Alan Katz

- Tenure and Promotion Committee, Faculty of Pharmacy
- College of Family Physicians of Canada, Continuing Professional Development Committee
- Canadian Strategy for Cancer Control: Primary Prevention Action Group
- Medical Staff Association Executive, St Boniface Hospital
- Search Committee for School of Medical Rehabilitation Director
- Chair, Health Research Ethics Board, Faculty of Medicine, University of Manitoba
- Senate Committee on the Ethics of Research Involving Human Subjects, University of Manitoba
- Faculty Committee on the Use of Human Subjects in Research, Faculty of Medicine, University of Manitoba (Research Ethics Board)

Anita Kozyrskyj

- Manitoba Director, Western Regional Training Program in Health Services Research
- Admissions Review Committee, National Training Program in Allergy and Asthma

- Human Ethics Research Board, Faculty of Medicine, University of Manitoba
- Research Review Committee, Heart and Stroke Foundation
- Board Member, Canadian Association for Population Therapeutics
- Research Review Committee, Heart and Stroke Foundation
- Canadian Association for Immunization Research and Evaluation
- Canadian Institute for Advance Research, Population Health Group
- Canadian Pharmacists Association
- Manitoba Pharmaceutical Association

Lisa Lix

- Manitoba Health Hospital Abstract User Committee
- Health Information Privacy Committee, Manitoba Health
- Manitoba Health Information Privacy Committee
- Health Services Utilization and Research Commission, Socio-Health Grants Review Committee, Saskatoon
- Canadian Institutes for Health Research, Health Services Evaluation and Interventions Research – A, Grants Review Committee
- Graduate Committee, Department of Community Health Sciences, University of Manitoba
- Visiting Scholar Series, Department of Community Health Sciences, University of Manitoba
- Editorial Board, Journal of Modern Applied Statistical Methods
- Editorial Board, Canadian Psychology
- American Statistical Association
- Canadian Society for Epidemiology and Biostatistics
- Statistical Society of Canada

Patricia Martens

- Member of the Institute Advisory Board, Institute of Population and Public Health, CIHR
- Health Promotion Policy and Planning Advisory Committee (HPAC) of the Heart and Stroke Foundation of Canada
- Manitoba Health: Maternal/Newborn Working Group – Data Group subcommittee
- National Centres of Public Health and Applied Research: Expert Advisory Group Member
- Member of the Peer Review Panel for Newfoundland/Labrador CAHR awards
- Member of the Graduate Studies Committee, Department of Community Health Sciences
- ACADRE Review/Advisory Committee (2002-2004) (Aboriginal Capacity and Developmental Research Environments), through the Manitoba First Nation Centre for Aboriginal Health Research
- CPHI Development of CIHI Education Workshop: Population Health Reference Group
- Individual expert member on the Breastfeeding Committee for Canada
- Expert advisor to the Baby Friendly Coordinating Committee of Manitoba, Manitoba Health and the Regional Health Authorities
- Member of the Advisory Committee for Rural & Remote Health Innovations Initiative, Health Promotions and Programs Branch, Manitoba/Saskatchewan Region of Health Canada
- Member of the ILCA (International Lactation Consultant Association) Research Committee (2000-present), Chair 2002-2004).
- Member of the Providence Theological Seminary Doctoral Program Research Ethics Board

Verena Menec

- Undergraduate Education Committee, Department of Community Health Sciences
- Executive Committee, Department of Community Health Sciences
- Graduate Student Committee, Department of Community Health Sciences
- Health Research Ethics Board, Faculty of Medicine, University of Manitoba
- Subcommittee to examine options re non-thesis based Masters
- Centre on Aging Liaison Committee

- Centre on Aging Advisory Committee
- Canadian Longitudinal Study on Aging, Working Group
- Canadian Association on Gerontology
- Gerontological Society of America

Colleen Metge

- Chair, Osteoporosis Society of Canada, National
- Chair, National Drug Scheduling Advisory Committee, Advisory to the Provinces
- National Drug Utilization Advisory Group
- Canadian Institute for Health Information Expert Advisor
- Drug Effectiveness/Outcomes Research Workshop, Bureau of Licensed Product Assessment
- International Society for Pharmaceutical Outcomes Research
- Canadian Association for Population Therapeutics
- Canadian Pharmacists Association

Leslie Roos

- Associate Emeritus, Population Health Program, Canadian Institute for Advanced Research
- Research Advisory Committee, Institute for Health Economics, University of Alberta
- Tenure Promotion Review, University of Toronto

Noralou Roos

- Associate, Population Health Program, Canadian Institute for Advanced Research
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- Institute of Health Services & Policy Research Advisory Board
- Health Research Ethics Board, Faculty of Medicine, University of Manitoba

Evelyn Shapiro

- Senior Scholar, Dept of Community Health Sciences
- Member, Quebec's FRSQ peer-review committee to review proposals for study programs on hospital emergency services, Montreal
- Consultation, Health Canada's E-Health group, Ottawa
- Planning Committee for Workshop on Capitation, Montreal
- National Council on Ethics in Human Research
- Gerontological Advisory Committee, Department. of Veterans Affairs
- Department of Community Health Sciences, University of Manitoba Search Committee

FINANCIALS

In addition to the \$1.85 million in funding received from Manitoba Health as described below, MCHP researchers continued to be successful in receiving career awards and research grants in peer-reviewed competitions. MCHP operating funds from these other sources for 2003/04 totalled approximately \$3.9 million.

Manitoba Centre for Health Policy Yearly Budget - 2003-2004	
Salaries	
Staff	1,236,587.79
Benefits	141,674.61
Payroll Levy	25,116.72
External Contracts	104,636.08
Salaries Subtotal	\$1,508,015.20
Other Expenditures	
Office Expenses	181,221.44
Equipment	
Purchases	122,798.01
Maintenance	1,932.91
Other Expenditures Subtotal	\$341,984.80
TOTAL	\$1,850,000.00