




WORLD LEADERSHIP IN HEALTH OF RURAL PEOPLE

CCHSA **CCSSMA**
Canadian Centre for Health and Safety in Agriculture
Centre canadien de santé et sécurité en milieu agricole



CCHSA/CCSSMA NEWS 2011-2012

Annual Report & Summary of Activities

OUR VISION

World leadership in health of rural people.

OUR MISSION

To conduct and stimulate research, education and health promotion programs aimed at enhancing the health and well-being of agricultural, rural and remote populations.

RESEARCH:

Rural and Remote Dementia Care

The researchers that make up the interdisciplinary Rural Dementia Care team have been working together since 2003. Our team focus is rural and remote dementia care, and from the formative years of our team we have traveled the breadth and width of Saskatchewan to better understand the needs of rural and remote people. Members of the team have significant experience, both in providing health care to, and researching the health issues of Saskatchewan older persons. Team members work together on some initiatives, and also maintain independent research projects and interests. Saskatchewan has the highest proportion of seniors in Canada with more seniors living in rural communities than in urban centres. Our research focuses on finding new ways to provide care and we draw on technologies such as TeleHealth to ensure our success.

Relevancy

A Decision-Maker Advisory Council, consisting of front-line health care providers and managers, family members of people with dementia, health region representatives, international researchers, and governmental and community based organizations provides guidance to our team's research. The Advisory Council's input ensures that our research is relevant to the people of our province. The Advisory Council also helps to share the research efforts and findings of the team with the communities that each Council member represents.

Team Activities

The interdisciplinary and collaborative nature of our team lends itself to a variety of complementary research projects and an evolving interest focused on rural and remote dementia care. Some projects and activities undertaken by team co-investigators include:

Rural and Remote Memory Clinic

A long-standing project of the rural dementia care team is the Rural and Remote Memory Clinic. The clinic focuses on diagnosis and management of atypical and complex cases of suspected dementia, where an interdisciplinary team assessment is most needed. The clinic streamlines processes in order to reduce repeated travel and to shorten the time to diagnosis by coordinating the team assessment on one day and by using TeleHealth



Rural Dementia Action Research (RaDAR) Team, 2012

videoconferencing for follow-up appointments. The Rural and Remote Memory Clinic was implemented and evaluated as a CIHR funded research program. However, this clinical service continues to be valuable to the people of our province, and funding for the Clinic has been provided by the Saskatchewan Ministry of Health since the original research funding ceased two years ago. A rich longitudinal database has been maintained since the clinic started, allowing researchers to examine a wide range of research question related to rural and remote dementia care.

In-person meeting of the Decision-Maker Advisory Council and Research Team

The 4th Annual Summit of the Knowledge Network in Rural and Remote Dementia Care was held in Saskatoon on the 27th and 28th of October 2011. Researchers in the field of rural dementia care met with Saskatchewan health care providers, the Decision-Maker Advisory council, and family members of people with dementia during this two-day meeting. Dr. Janice Keefe of Mount Saint Vincent University gave the keynote address. Her research areas of interest are caregiving policy and practice, continuing care policy, and rural aging. This year's meeting agenda of sessions and discussion groups included research on the Summit itself: the Summit was evaluated as a Knowledge Translation Strategy thanks to funding from the Canadian Dementia Knowledge Translation Network.



Dr. Janice Keefe

Rural Dementia Action Research Team-RaDAR

The goal of the Rural Dementia Action Research (RaDAR) team is to improve primary healthcare delivery to people with mild cognitive impairment and dementia and their caregivers in rural and remote communities. We welcome on to the team researchers from the UK with experience providing dementia care in rural areas of Scotland and other areas in the UK. Our team is responding to an initiative from the Canadian Institutes of Health Research (CIHR) to fund research teams in the area of primary healthcare. We see a critical need for improved primary healthcare delivery to this segment of our population, which has a higher proportion of seniors than cities, but fewer primary healthcare, specialist, and support services available and accessible locally.

Thanks to funding from a CIHR-MPD grant we hosted a one-day Planning Session in October, 2011 attended by 53 stakeholders includ-

ing health region directors, family physicians, nurse practitioners, family caregivers, the Alzheimer Society of Saskatchewan, Health Quality Council, and health region employees. These stakeholders identified a need for more accessible, appropriate, and timely services for rural patients with dementia and their caregivers. It is also important to improve the knowledge levels of the general public, families and caregivers, and healthcare professionals. Based on the results of this Planning Session and subsequent meetings, our team intends to develop innovative ways to improve primary healthcare delivery to people with mild cognitive impairment and dementia and their caregivers in rural and remote communities.

The stakeholders who have helped shape this plan have identified partnerships and collaboration with the Ministry and other organizations, including the Alzheimer Society of Saskatchewan, as essential to the success of this research program and the sustainability of rural primary healthcare interventions.



*RaDAR Planning Session
October, 2011*

Caregiver Needs Assessment

This study is aimed at improving our understanding of the experiences of family members of patients referred to a Rural and Remote Memory Clinic, and the supports and services needed to help them in their role. The caregivers of 32 clinic patients have

been interviewed at three points - on clinic day, then at six and 12 months following the initial assessment. Data collection is nearly complete, with nine caregivers still to participate in one-year interviews. Data suggests that caregivers are driven by a “need to know” what is causing the memory-related symptoms in their family member. Prior to diagnosis, caregivers anticipate the benefits of getting a diagnosis will include naming it, treatment, guidance, prognosis, explanation of symptoms, and ruling out other problems. Six months later, caregivers indicate that they have experienced benefits as a result of attaining a diagnosis, including opened doors to resources, acceptance, relief, and validation. Data collection and analysis will continue until January, 2013.

Translating Research in Elder Care – TREC

Dr. Debra Morgan is the Saskatchewan lead for TREC, and the principal investigator of the study is Dr. Carole Estabrooks at the University of Alberta. TREC is a multi-year, multi-province research study examining the role of ‘organizational context’ in the lives of the people who live and work in long-term care facilities in the prairies. The study is funded through CIHR and is the largest operating grant ever awarded in aging or knowledge translation research. In 2011-2012 TREC hosted a meeting in Saskatoon with the senior staff of the 13 participating long-term care facilities from Saskatchewan who participated in the study, in order to share the findings from the data collection and analysis that had been conducted at their facilities. As well, the Saskatchewan TREC team re-visited each of the 13 sites to host a dissemination and information sharing session with facility staff. This was an important way to share the knowledge learned from the research study, and to thank the facility staff for their participation and contribution to research.

From Research to Action – FTD Support Group Members Create Videos.

Since January 2009, Margaret Crossley and Megan O’Connell, psychologists with the Rural and Remote Memory Clinic have provided a monthly telehealth-delivered support group for caregivers of individuals diagnosed with atypical dementias. Caregivers of these less common dementias are under-served and geographically isolated. The use of telehealth allows caregivers from across the province to meet using videoconference technology.



Videos available at www.cchsa-cssma.usask.ca/ruraldementiacare

In January of 2012, a few members of the support group travelled to Saskatoon to share their personal experiences as caregivers with a classroom of students. At the urging of the group members, these presentations were recorded and have been posted online.

The Saskatchewan Farm Injury Project (SFIP) – Phase 1

Purpose and objectives:

The goal of the project was to understand individual operational risk factors (individual exposures) and settings (contextual or environmental exposures) associated with agricultural injury using a novel approach based on Population Health Theory. The long-term goal of the project was to provide new information that would inform the development of interventions directed at the prevention of injury within both farm populations and agricultural production settings.

Features of the study:

SFIP-Phase 1 was a large prospective population based study of injuries that occur on Saskatchewan farms. The study was conducted from 2005 to 2011 with the co-operation and support of the Saskatchewan Association of Rural Municipalities and 50 rural municipalities spread across the province. For the first time a theoretical framework was used to design a study of farm injuries, in this case the Population Health Theory (Canadian Institute of Health Research). The study population was comprised of 5402 people living on 2490 farms. The farms involved in the study were representative of the types of production and acreage sizes in Saskatchewan agriculture. The Baseline study was conducted in winter 2007 and the Follow-up study was concluded in December 2009. The farms were followed for a period of three years.

The research team:

Phase 1 of the Saskatchewan farm Injury Project was concluded in September, 2011. The principal investigators on this project were Dr. James Dosman and Dr. Will Pickett. The research team was comprised of scientists from the University of Saskatchewan, Queen's University, University of Alberta, Marshfield Center Research Foundation in USA, and Monash University in Australia.

Trainees:

Two graduate students, Gopinath Narasimhan and Erin Crouchman, participated in the project. Both students published the results of their research using data from the study. Both successfully completed Master's Degrees from Queen's University.

Progress to date:

Data collection has concluded. The main study results have been reported. To date the investigators have published 13 manuscripts in peer reviewed journals. Presently, another two manuscripts are in progress. Secondary analysis of the data continues. Results from the study have implications for the farming community, health and safety professionals and policy makers. In order to communicate this information to farmers and other stakeholders a knowledge translation document describing the study results and implications was produced and circulated to all the study participants, all participating rural municipalities and through the Agriculture Health and Safety Network during 2010/2011.

4. CCHSA/CCSSMA NEWS 2011-2012

The project was funded by the Canadian Institutes for Health Research (CIHR).

Contact us: For detailed information about the study including a complete list of publications please visit our website at <http://www.cchsa-ccsma.usask.ca/skfarminjuryproject/index.php>

The Saskatchewan Farm Injury Project (SFIP) – Phase 2

Purpose and Objectives

The purpose of SFIP-Phase 2 is to extend and expand study of the cohort assembled in SFIP Phase 1 in the context of the Population Health Framework (CIHR). In SFIP-Phase 2 our primary focus will be specific types of farm injury and their determinants in vulnerable subgroups of the agricultural population. Second, we will conduct a series of analyses in order to explore promising risk factors for farm injury as well as risk factors for other outcomes. Third, we will use the opportunity to evaluate components of a provincial agricultural health and safety initiative. The long-term goal of the project is to provide new information that will inform the development of interventions directed at the prevention of injury within both farm populations and agricultural production settings.

Features of the study:

The new features of Phase 2 will be: 1) to develop a cohort of farming and non-farming rural children and youth and 2) for the first time we will examine musculoskeletal injuries in a population of Canadian farmers. The baseline study will begin in January 2013 and the follow-up study will continue through to 2015. The study participants will form two cohorts the General Farm Cohort comprised of Saskatchewan farmers from 75 rural municipalities and the Child Cohort comprised of children and youth from an estimated 50 rural schools.

The Research Team:

The research team comprises members from Saskatchewan, Ontario, Alberta, the United States and Australia. Dr. Will Pickett (Queen's University) and Dr. Jim Dosman (University of Saskatchewan) will lead the research team. Co-investigators include Dr. Josh Lawson (University of Saskatchewan), Dr. Barbara Marlena, Dr. Robert Brison (Queen's University), Dr. Lesley Day (Monash University), Dr. Don Voaklander (University of Alberta), Dr. Catherine Trask, Dr. Niels Koehncke and Ms Louise Hagel (University of Saskatchewan)

This project is funded by the Canadian Institutes for Health Research (CIHR).

The Saskatchewan Rural Health Study (SRHS)

Purpose and objectives:

SRHS is a large observational prospective study of respiratory health in rural dwellers in Saskatchewan. The goal of the SRHS is

to develop a better understanding of the factors that influence respiratory health in rural Saskatchewan. Our hope is that this will lead to more effective respiratory health promotion and respiratory disease prevention efforts.

Features of the study:

The project was launched in 2009 and will continue through to 2015. The study is being conducted in four rural areas located in the four quadrants of the province. In total 32 rural municipalities and 15 rural towns and villages are participating. The baseline study was conducted in 2010/2011. 8,257 adults from 4,622 rural households participated plus 2,383 children attending schools in the study areas. Components of the study that are now in progress are the environmental study of grain dust exposure and the health care utilization study. The follow-up study will begin in 2014.

The research team:

The principal investigators on this project are Dr. James Dosman and Dr. Punam Pahwa of the University of Saskatchewan. Our research team is comprised of scientists from the University of Saskatchewan, University of Alberta, University of Ottawa, Queens' University and Laurentian University.

Trainees:

Two graduate students are participating in the project, Ms Rebecca Barry, master's candidate at Queens' University and Ms. Meenu Rai, master's candidate at University of Saskatchewan. Both students are using data from the baseline study to conduct their research.

Progress to date:

The analyses of the results of the baseline study are well underway. To date the investigators have published 4 manuscripts in peer reviewed journals.

This project is funded by the Canadian Institutes for Health Research (SIHR).

Contact us:

For detailed information about the study including a list of publications please contact Louise Hagel, study manager at louise.hagel@usask.ca, or visit our website that will come on line in late 2012 at [HTTP://www.cchsa-ccsma.usask.ca](http://www.cchsa-ccsma.usask.ca)

The Saskatchewan Farm Injury Surveillance Program

CCHSA continues to participate as the provincial collaborator in the Canadian Agriculture Injury Reporting program. This ongoing injury surveillance program uses existing mortality and morbidity data bases to track fatal and hospitalized farm injuries in the province. The farm injury surveillance data bases currently hold de-identified data for 420 fatal injury cases for the period 1990 to 2009 and 4619 hospitalized farm injury cases for the period 1990 to 2007.

Periodic provincial farm injury surveillance published reports identify the frequency of serious farm injuries, the trends over time and the patterns and causes of the injury events. Special analyses are also conducted at the request of community stakeholders such as the Regional Health Authorities and researchers. The data is used to inform the farming community, health and safety professionals, and interested government and non-government agencies. The provincial data is shared with the Canadian Agriculture Injury Reporting program at the University of Alberta and comprise part of the Canadian Agriculture Injury database.

The co-investigators on this project are Ms Louise Hagel and Dr. Niels Koehncke, Canadian Centre for Health and Safety in Agriculture, University of Saskatchewan. Collaborators include the Ministry of Health and the Occupational Health and Safety Division of the Ministry of Labor Relations and Workplace Safety. Look for updated reports on our website at <http://www.cchsa-ccsma.usask.ca>.

This project is funded by the Canadian Centre for Health and Safety in Agriculture, the Occupational Health and Safety Division of the Ministry of Labour Relations and Workplace Safety, Government of Saskatchewan, Canadian Agriculture Injury Reporting, the Canadian Agriculture Safety Association and Agriculture and Agri-food Canada.



Lung Health Intervention for the Next Generation

A study entitled the First Nations Lung Health Project is in full swing in the communities of Beardy's /Okemasis and Montreal Lake Cree Nation. The purpose of the project is to assess the lung health of the community. Based on the results of the assessments, the communities and the University of Saskatchewan are working together to address the gaps in lung health among community members. Dr. James Dosman, Principal Investigator, Canadian Centre for Health and Safety in Agriculture at the University of Saskatchewan has led a similar study with farm families in rural Saskatchewan and was successful in acquiring a \$1.6 million grant to replicate this important work with First Nations. He and Co-Principal Investigator Dr. Punam Pahwa recruited Kathleen McMullin of the Lac La Ronge Cree Nation to manage the project. From May 1st to August 30th, she worked with research assistants Angel Seesequasis and Collette Gamble, members of the Beardy's Okemasis First Nations, and Sarah and Courtenay Lavallee, of the Montreal Lake Cree Nation. Co-investigator Josh Lawson was also involved. The project investigators know the importance of building capacity in Indigenous communities and see the project as an ideal venue and model for meeting this goal.

This study is being conducted because it is known that environmental (e.g., housing conditions), social (e.g., education and income), life-style (e.g., smoking and obesity) and health services delivery factors may have an effect on the respiratory health of First Nations people. These factors may lead to chronic bronchitis, chronic obstructive pulmonary disease (COPD), obstructive sleep apnea, asthma, and reduced lung function. Despite this impact on respiratory health, it is still not fully understood how these risk factors influence respiratory health of First Nations people. In this study, the University of Saskatchewan in partnership with two First Nations, hopes to gain a better understanding of the factors that influence respiratory health of First Nations people living on reserves across Saskatchewan.



In the spirit of reciprocity, the Project is providing each of the two Health Clinics with new Spirometer equipment estimated at \$10,000.00 per machine. The Research Assistants have been trained and certified by the Saskatchewan Lung Association as Spirometer technicians. They have also acquired clinical skills of measuring blood pressure, height, weight and allergy skin testing. The students

will have the capacity to carry these skills in future employment and the communities in turn will benefit from their skills.

Community members 18 years and older who are full time residents on the Beardy's / Okemasis and Montreal Lake First Nations are invited to voluntarily participate in the study.

The research assistants explain the four parts of the study to the participants:

1. Interviewer administered questionnaire
2. Measurements of height, weight, waist, and blood pressure.
3. Breathing tests to measure lung function. Persons who show below normal tests will be referred to their family physician for follow-up.
4. Allergy skin prick tests to measure if participants are allergic to a few common allergens: cats, local grasses, alternaria (mold) and house dust mite.

Community members are given a copy of their allergy test and breathing test results. This information may be useful to them in managing their overall health. They can share this information with their family doctor and/or keep a copy for their health records. It is hoped the information gained from this study can be used in the future to benefit the lung health of rural Saskatchewan residents..

The results of the study will be available in 2013 from Drs. Dosman and Pahwa. Co-Principal Investigators, Dr. Sylvia Abonyi and Dr. Jo –Ann Episkenew share in responsibilities related to this project and have worked on several other Indigenous community based research projects in the past. The Research team ensures that community members' information is protected through the Health Information Protection Act (HIPA). Confidentiality is en-

sured. Results of this project will be shared through the William Charles Health Centre at Montreal Lake, a quarterly health newsletter at Beardy's, a community-based radio station at Montreal Lake, "Radio Montreal at 103.9 FM," and at Beardy's, as well as in a community dinner within each reserve. Researchers will seek feedback from the community residents and will design an intervention program(s) tailored to the community. The results of the study will also be published in scientific journals and presented at scientific meetings.

Participants are offered an honorarium of \$25.00 to cover their time and out-of-pocket expenses. Data collection began on May 30 and is in progress. 146 lung function tests and 219 allergy tests have been performed.

Montreal Lake Cree Nation has been estimated to have 310 households with a total of 498 adults. Data collection for adults may be completed by December and plans are underway for the childrens' tests after the New Year.



Any questions or further information about this study can be directed to Dr. James Dosman at (306) 966-1475 or Ms. Kathleen McMullin at (306) 953-3432 or cell (306-960-3238).

SERVICES:

The Agriculture Health and Safety Network

The Agricultural Health and Safety Network (The Network) provides agricultural occupational health and safety information and programs to Saskatchewan farm families through support from CCHSA, Saskatchewan Ministry of Agriculture, membership fees and external grants.

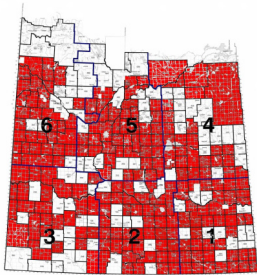
In 2012, the Network grew to a membership total of 210 participating RMs which includes over 29,000 farm families. The Network provides agricultural health and safety literature, newsletters, hearing and respiratory clinics, speakers, workshops, trade show displays for participating RMs. The Network benefits from input of the Steering Committee comprised of six RM councilors representing the six divisions of the Saskatchewan Association of Rural Municipalities (SARM) and a representative from the Ministry of Agriculture. Strong partnerships have been developed and maintained with provincial and national organizations resulting in the delivery of a unique agricultural health and safety program in Saskatchewan.

Library of Resources

The resource and DVD library consistently receives requests from the large collection housed in the Network office. These resources are quality occupational health and safety resources on a large number of topics for Saskatchewan farmers that are distributed through traditional mail, electronically, and at local events. New resources this year include a respiratory safety booklet, a respiratory safety video, an updated Farm Safety Walkabout booklet, and a manual for farmers including activities that complement the Farm Safety Walkabout.



Recruitment



The Network has grown to 210 RMs. Recruitment efforts are ongoing.

Website

The website was updated this year to provide all of our resources electronically. We have our farm safety videos on the website. This was a major undertaking, but hopefully makes our resources more accessible.



Newsletters and Annual Package

The Network News is a newsletter produced and delivered twice a year to all farm families enrolled in the Network with a focus on health and safety issues in rural Saskatchewan, research updates and Network activities. The annual package included The Farm Safety Walkabout resource tucked into the centre fold. Placing the booklet inside resulted in a large financial savings, so, where appropriate we will continue to distribute our annual resources in this way.

Network Respiratory Health and Hearing Clinics

As part of Network membership, local communities and farm families are offered Respiratory Health Clinics or Hearing Conservation clinics. A Registered Nurse with experience in agricul-

tural health and safety meets with individual producers in this community to provide a confidential occupational health screening, health promotion counseling, and address various health concerns. Network Health Clinics were conducted in the following RMs: Kellross #247, Gravelbourg #104, and Snipe Lake # 259.

Workshops and Presentations

The Network provided speakers for numerous Rate Payers' meetings, Progressive Farm Safety Days, Educational Conferences, Professional Development Days, celebrations and other invited speaking engagements. Topics for these presentations include:

- Farm Safety Plan,
- Sleep and Stress,
- Older Farmers, and Caring for the Caregiver
- Respiratory Safety.

The Farm Safety Plan Workshops

The Farm Safety Plan Workshops continued throughout the winter using funding from Farm Credit Canada. Farmers in and around the communities of Norquay, Nipawin, Wynyard, Radville, Moose Range, Watrous, Moose Jaw, and Colonsay had opportunity to participate in a Farm Safety Plan workshop.

Scholarship



Initiated in 1995 with SARM and the continued support of the Founding Chairs, this scholarship is awarded each year to a grade 12 student who writes the best farm safety essay. The SARM 90th Anniversary \$1,000 Student Scholarship winner this year is **Ty Kehrig** from the RM of Bjorkdale #167. Ty is planning to enter the College of Agriculture and Biore-sources at the University of Saskatchewan in the fall.

Other Publications:

- **Health Works** column in *The Rural Councilor*. This SARM publication continues to host a column written by Network staff. Each article focuses on farm health and safety concerns. This year's articles included: (a) Winning SARM Scholarship Essay, (b) Traveling from Yard to Field with Machinery, (c) The Network – Saskatchewan's Best Kept Secret, (d) The Canadian Centre for Health and Safety in Agriculture Develops a Respiratory Safety DVD, (e) Making the Most of Your Network Membership, and (f) The Farm Safety Walkabout.
- **The HandiFarmer**: The Farmers with Disabilities newsletter hosts articles by the Network. Articles include: (a) The Farm Safety Walkabout, (b) The Canadian Centre for Health and Safety in Agriculture Celebrates its 25th Anniversary, (c) Have you Activated your Farm Safety Plan? and (d) Growing up on the Farm.
- **Agriview**: The Saskatchewan Ministry of Agriculture's publication hosts articles from the Network. This year they

included: (a) Personal Protective Equipment only Works if You Use it: Focus on Feet, (b) Keeping Senior Farmers Safe, (c) Personal Protective Equipment only Works if You Use It: Hearing Protection, and (d) The Respiratory Safety DVD.

CAPACITY BUILDING

National Partners Fund

The National Partners Fund, the successor to the Founding Chairs Program which was established in 1989, is an integral part of creating a secure financial base for CCHSA and providing opportunities for new program initiatives. A portion of the funds are used for special research projects, scholarships for graduate students and knowledge translation.

The Guardian categories recognize lifetime contributions of current and previous contributors in addition to new contributors.

- Gold Guardians: Canadian National Railways
- Silver Guardians: Farm Credit Canada, Federated Co-operatives Ltd, Viterra
- Bronze Guardians: The Cooperators.

Maura Gillis-Cipywnyk, Director of Institutional Advancement, is responsible for coordinating the program in consultation with the Management Committee which is comprised of 3 members who are Contributors and 3 members from the University of Saskatchewan. Current members include Terry Baker, Lyndon Carlson, Vice-President, Marketing and Product Development, Farm Credit Canada and University of Saskatchewan representatives : Dr. John Gordon, Director, CCHSA, Dr. William Albritton, Dean, College of Medicine; Sue Verhille - Long, Financial Services Division.

This year's focus has been on promoting awareness of our Foundation within Canadian agricultural industries, companies and associations and involvement in the planning committees to discuss sponsorship for the 7th International Symposium "Safety & Health in Agricultural and Rural Populations" to be hosted in 2014 and the 25th Anniversary of the Agricultural Health and Safety Network in 2013..

Graduate Training Program in Public Health and the Agricultural Rural Ecosystem (PHARE)

The CIHR Strategic Training Program entitled, "Public Health and the Agricultural Rural Ecosystem" (PHARE) provides scholarship support along the development continuum from Masters through to Post Doctoral Fellows to train and mentor young scientists. The program continues until 2014. There is a May 31st deadline for applications.

2011-2012 PHARE Awardees:

Post Doctoral Fellow – David Schneberger, University of Saskatchewan; and Zimu Yu, University of Saskatchewan. PhD – Pascale Blais-Lecours, Université Laval; Amanda Froehlich-Chow, University of Saskatchewan; Zhiwei Gao, University of Alberta; Nichole Garzia, University of British Columbia; Kerry Anne Hogan, Queen's University; Natasha Just, University of Saskatchewan; Kyungsu Kim, University of Alberta; Megan Kot, Dalhousie University; Abayomi Olaniyi, University of Saskatchewan; Shinjini Pal, University of Ottawa; Robin Repta, University of British Columbia; Paulo Rogers da Silva Ferreira, Université Laval; Arcadio Viveros Guzman, University of Saskatchewan; and Ming Ye, University of Alberta. Masters – Ankona Banerjee, University of Saskatchewan; Rebecca Barry, Queen's University; Michael Beeler, University of Toronto; Karen Gesy, University of Saskatchewan; and Janna Schurer, University of Saskatchewan.



National Research Program

The CCHSA National Research Program is composed of a network of over 50 scientific collaborators representing 14 Canadian Universities across 9 provinces and 14 non-Canadian institutes and other organizations. The work of the program focuses on the four theme areas of What we breathe (Genetic and environmental determinants of lung dysfunction), What we eat and drink (Determinants of infections), How we work (Occupational health issues), and How we live (Physical and mental health, and social issues).

In October 2011, members of the National Scientific Network gathered in Vancouver to attend the 10th Canadian Rural Health Research Society conference.

Canadian AgriSafety Applied Research Program

For the purpose of further developing the Canadian AgriSafety Applied Research Program Agrivita Canada, led by Dr. James Dosman, hosted a National Summit in Saskatoon on February 16, 2012 to consult with stakeholders on research priorities and recommendations for thirteen key hazard classes in agricultural exposures and knowledge translation. The Program is to be submitted to Agri-Food and Agriculture Canada in 2012 under the funding opportunity program Growing Forward 2. Knowledge Translation and Exchange Initiatives.

Airways Research Project

Led by Dr. John Gordon and Dr. Donald Cockcroft, the Airways Research Group is conducting a study on “The impact of airborne environmental contaminants on respiratory public health in Saskatchewan”. Considering the high incidence of asthma and other chronic respiratory diseases in southern regions of Saskatchewan the purpose of the study is to determine whether episodic increases in respiratory symptoms of community residents living in Estevan and Swift Current are associated with variations in the levels of airborne contaminants and their constituent components. This is a Phase II project supported by the Saskatchewan Health Research Foundation for 2011-2014.

KT Resources Developed:

Mechor B, Hagel L, Dosman J, Pickett W. Saskatchewan Farm Injury Project: Progress Report. 2011

Invited Presentations:

Cammer A, Morgan D, Stewart N, Crossley M. Nursing care aide determination and reporting of aggressive incidents in long-term care. Alzheimer’s Disease and Related Dementia Research Event, Alzheimer Society of Saskatchewan, Saskatoon, January 18, 2012.

Cammer A, Morgan D. Physical assault of nursing aides in rural nursing homes. Provincial Affiliate Resource Group (PARG). Davidson, SK. May 19, 2011.

Lacny C, Kirk A, Morgan D, Karunanyake C. Predictors of severity of cognitive impairment in rural patients presenting to a memory clinic. Alzheimer’s Disease and Related Dementia Research Event, Alzheimer Society of Saskatchewan, Saskatoon, January 18, 2012.

Morgan D, Walls-Ingram S, Cammer A, Crossley M, Forbes D, Innes A, O’Connell M, Stewart N. Pre-diagnosis experiences of informal caregivers of patients referred to the Rural and Remote Memory Clinic. Alzheimer’s Disease and Related Dementia Research Event, Alzheimer Society of Saskatchewan, Saskatoon, January 18, 2012.

Morgan D, Kosteniuk J. Primary healthcare dementia care models: A systematic review. Alzheimer’s Disease and Related Dementia Research Event, Alzheimer Society of Saskatchewan, Saskatoon, January 18, 2012.

Morgan D, O’Connell M, Holfeld L. Satisfaction with telehealth in a rural and remote memory clinic. Telehealth Saskatchewan Network Annual Meeting. Saskatoon, Sept 20, 2011.

Morgan D. Satisfaction with telehealth in a rural and remote memory clinic. Department of Medicine Province Wide Grand Rounds, University of Saskatchewan, June 22, 2011.

O’Connell M, Crossley M, Cammer A, Morgan D, Caregiver Collaborators. Key factors identified by participants of a

telehealth-facilitated support group for spouses of persons diagnosed with atypical dementias. Alzheimer’s Disease and Related Dementia Research Event, Alzheimer Society of Saskatchewan, Saskatoon, January 18, 2012.

Stewart N, Morgan D, Cammer A, Karunanayake C, O’Connell M. Gender differences in caregiver distress over time. Alzheimer’s Disease and Related Dementia Research Event, Alzheimer Society of Saskatchewan, Saskatoon, January 18, 2012.

Trask C. Price versus precision: cost efficiency in trunk posture observation. 24th Annual Occupational and Environmental Health Conference. Blaine, USA. January 4-5, 2012.

Lawson J. The Belarus, Ukraine, and Poland Asthma Study (BUPAS): Development of an international research initiative in childhood asthma. Presented to the College of Medicine Global Health Rounds, February 7, 2012.

Lawson J. Obesity and Pediatric asthma. Presented to the Saskatchewan Thoracic Society Education Day, November 19, 2011

Lawson J. Good epidemiological practices. Presented to physicians at training updates, Lviv, Ukraine, September 15, 2011

Lawson J. Good epidemiological practices. Presented at the “Childhood asthma: epidemiology and prevention” Conference, Krakow, Poland, September 10, 2011

Published Resources/Technical Reports Relevant to Academic Field:

Forbes D, Harrison W, Strain L, Peacock S, Morgan D, Hawranik P, Woytkiw T, Blake C. (Mar 2012). Contextual Factors within Northern Home Care Centres that Influence the Spread and Uptake of Research Evidence: A Pilot Study. Report printed at University of Alberta (39 pages).

Morgan D, Minish D. (Feb 2012). Knowledge network in rural and remote dementia care: Final Report, 4th Annual Summit Oct 27th and 28th, 2011. Report printed at the University of Saskatchewan (28 pages).

Morgan D, Kosteniuk J, Crossley M, Kirk A, O’Connell M, Stewart N, Forbes D, Dal Bello-Haas V, Innes A, Keady J, Vaitheswaran S, Murdoch A. (Jan 2012). Report on the Community-Based Primary Healthcare Team Grant Planning Session, October 17, 2011, Planning for the Rising Tide: New Models of Rural Primary Healthcare for Persons with Dementia Report printed at University of Saskatchewan (108 pages).

Research Grants Received:

Morgan D, Kosteniuk J, Crossley M, O'Connell M, Kirk A, Stewart N, Dal Bello-Haas V, Forbes D, Innes A, Keady J, Vaitheswaran S, Murdoch A. Knowledge exchange with the Rural Dementia Action (RaDAR) Team: An action plan for mild cognitive impairment and dementia care in rural and remote areas. Canadian Dementia Knowledge Translation Network. Awarded April 2012. \$20,000

Morgan D, Crossley M, Dal Bello-Haas V, Forbes D, Innes A, Keady J, Kirk A, Kosteniuk J, O'Connell M, Stewart N, Murdoch A, Vaitheswaran S. Planning for Rising Tide: New Models of Rural Primary Healthcare for Persons with Dementia. CIHR Meeting, Planning, and Development Grant. Awarded October 2011. \$25,000

Morgan D. Summit of the Knowledge Network in Rural and Remote Dementia Care. University of Saskatchewan, University Conference Fund. Awarded May 2012. \$1,000.00.

Morgan D, Crossley M, O'Connell M, Stewart N, Kirk A, Innes A, Keady J, Murdoch A, Vaitheswaran S. Development support grant for Rural Dementia Action Research (RaDAR) Team. Research Acceleration Program, University of Saskatchewan. May, 2012. \$10,000.00.

Morgan D, Crossley M, Dal Bello-Haas V, Forbes D, Innes A, Keady J, Kirk A, Kosteniuk K, O'Connell M, Stewart N. Development grant for RaDAR team. Department of Medicine, College of Medicine, University of Saskatchewan. April 2012. \$10,000.00.

Continuing Research Grants:

Dosman JA & Collaborators. National Agricultural Industrial Hygiene Laboratory. Funded by: Canada Foundation for Innovation 2007-12. 14.6M (CFI contribution, 5.8M).

Dosman J, Pahwa P, Rennie D, Senthilselvan A, Lawson J, Kirychuk S, Gordon J, Pitblado R, Dyck R, Jensen B, Pickett W. Saskatchewan Rural Health Study. Funded by: Canadian Institutes of Health Research (CIHR) 1.7M, 2008-2014.

Estabrooks C, Cummings G, Degner L, Dopson S, Laschinger H, Leiter M, Morgan D, Norton P, Profetto-McGrath J, Rycroft-Malone J, Smith M, Sales A. Translating Research in Elder Care (TREC). \$4.7 million. Canadian Institutes of Health Research, Canadian Institutes of Health Research. Awarded January 2007.

Forbes D, Morgan D, Strain L, Mendelsohn M. Policy, program, and practice Dialogue Summit: Rural home care's use of research evidence to inform dementia care. \$19,248. Canadian Dementia Knowledge Translation Network and the Alzheimer Society of Canada, Education and Training Knowledge Translation Award. Awarded April 13, 2010 for one year.

Forbes D, Gibson M, Markle-Reid M, Morgan D. Developing

dementia care decisions through knowledge exchange in rural settings. \$192,063 over 2 years. Alzheimer Society of Canada and partners (Canadian Nurses Foundation, CIHR Institute of Aging, Parkinson Society of Canada). Awarded Feb 2010 for 2 years.

Estabrooks C, Cummings G, Degner L, Dopson S, Laschinger H, Leiter M, Morgan D, Norton P, Profetto-McGrath J, Rycroft-Malone J, Smith M, Sales A. Translating Research in Elder Care (TREC). Funded by: Canadian Institutes of Health Research, Canadian Institutes of Health Research. \$4.7 million. Awarded January 2007.

Gordon J, Asselin J, Ulmer K. Update on the current Canadian Farm Safety Situation: A workshop. Funded by: Canadian Agriculture Safety Association. 2009-2010. \$15,065.

Gordon JR. ELR-CXC chemokines in CF inflammation. Canadian Cystic Fibrosis Foundation Operating Grant. 2010-2013. \$240,000.

Gordon JR. & collaborators. Update on the current Canadian Farm Safety Situation: a workshop. Canadian Agricultural Safety Association. CASHP grant. 2009-10. \$30,130.

Gordon JR, Cockcroft D. Research Group Development Grant. Airways Research Group. Funded by: Saskatchewan Health Research Foundation (SHRF). March 2009-March 2011. \$50,000/annum for two years.

Gordon JR, Kirychuk S, Dosman J, Morgan D, Potter A, Reeder B, Bharadwaj L, Epp T, Pahwa P, Rennie D, Singh Baljit. Public Health in the Agricultural Rural Ecosystem. Funded by: CIHR Strategic Training Initiative in Health Research. April 2009-March 2014. \$325,000/annum for six years

Gordon JR. Airways Research Group. Funded by: Saskatchewan Health Research Foundation Group Development Grant. 2009-11. \$100,000.

Gordon JR. Mechanisms mediating the effects of tolerogenic dendritic cells. Funded by: Canadian Institutes of Health Research. 2008-13, \$675,000.

Halayko A, Gavami, Gordon JR. The A8/A9-RAGE Axis in Airway Inflammation, Hyperresponsiveness, and Remodeling. Canadian Institutes of Health Research Operating grant. 2010-15. \$745,000.

Kirychuk S. New Faculty Equipment funds. Funded by: University of Saskatchewan, VP Academic and Provost. January 31, 2009- January, 2012. \$15,000.

McBain L, Stewart N, Morgan D, Bourassa C, Cammer A. Evolution of assisted living, personal care, and long-term care facilities in Aboriginal communities. Funded by: Canadian Centre for Health & Safety in Agriculture (CCHSA) Centre for Research Development Pilot Project. February 2010 - March 2011. \$20,000

Morgan D. CIHR Applied Chair in Health Services & Policy Research, Healthcare Delivery Across the Continuum for Rural and Remote Seniors with Dementia, \$925,000. Canadian Insti-

tutes of Health Research in partnership with Saskatchewan Health Research Foundation. Awarded October 2008 for period March 1, 2009 to April 30, 2014.

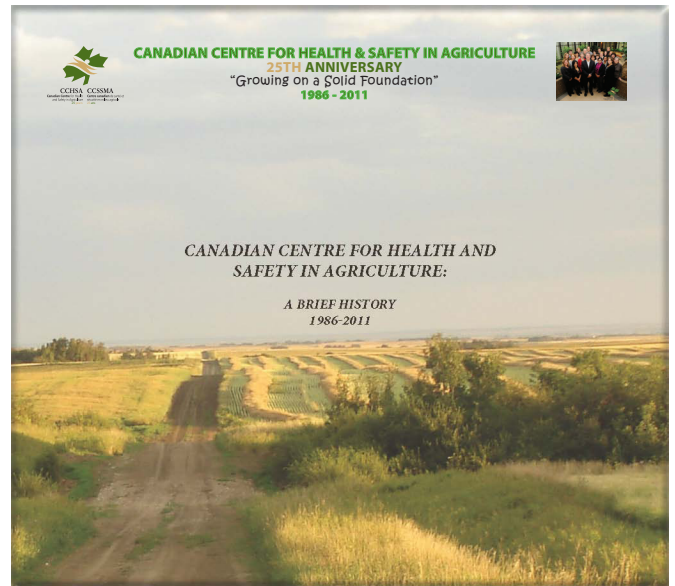
Morgan D, Stewart N, Crossley M, Forbes D, Innes A, Cammer A, M O'Connell. Caring for a family member with dementia: Identifying the support and service needs of rural family caregivers. Funded by: Canadian Centre for Health & Safety in Agriculture (CCHSA) Centre for Research Development Pilot Project. January 2010 - December 2011. \$20,000.

Morgan D, Cammer A. Rural and remote dementia care: Implementation and Evaluation of a Knowledge Exchange Initiative. Canadian Dementia Knowledge Translation Network-Alzheimer Society of Canada, Education and Training Knowledge Translation Award. Awarded April 2011. \$20,000.

Morgan D. Best practices in rural and remote dementia care: Moving the agenda forward- Summit of the Knowledge Network in Rural and Remote Dementia Care. Canadian Institutes of Health Research: Meeting, Planning, & Dissemination (MPD) Events Grant (Priority Announcement, Health Services & Policy Research). Awarded May 2010. \$13,500.

Rennie D, Lawson J, Gordon JR. Canadian Support for the Belarus, Ukraine, Poland Asthma Study. Global Partners Fund (University of Saskatchewan). 2010-11. \$10,000

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PUBLISHED PAPERS: E-PUB & IN REFEREED JOURNALS

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Crouchman E, Ding K, Hagel L, Dosman J, Pickett W. Saskatchewan Farm Injury Cohort Study Team. Gender and occupational health and safety requirements among Saskatchewan farm adolescents. *Journal of Agricultural Safety & Health*. 17(4):343-54, 2011 Oct.

Goodridge D, Lawson J, Marciniuk D, Rennie D. A population-based profile of Canadian adults living with participation and activity limitations. *Canadian Medical Association Journal* 183:e1017-24, 2011.

Heggie, M., Morgan, D., Crossley, M., Kirk, A., Wong, P., Karunanayake, C., & Beever, R. Quality of life in early dementia: Comparison of rural patient and caregiver ratings at baseline and one year. *Dementia: The International Journal of Social Research and Practice*. (2011 – online first). DOI: 10.1177/1471301211421085

Kosteniuk J, Morgan D, D'Arcy C. Diagnosis of anxiety and depression in clinical scenario patients: Survey of Saskatchewan family physicians. *Canadian Family Physician*, 58, 144-151, 2012.

Kosteniuk J, Morgan D, D'Arcy C. Treatment and follow-up of anxiety and depression in clinical scenario patients: Survey of Saskatchewan family physicians. *Canadian Family Physician*, 58, 152-158, 2012.

Lacny C, Kirk A, Morgan D, Karunanayake, C. Does day length affect cognitive performance in rural and remote memory clinic patients? *Canadian Journal of Neurological Sciences*, 38(3), 461-464, 2011.

Lanting S, Crossley M, Morgan D, Cammer A. (2011). Aboriginal experiences of aging and dementia in a context of sociocultural change: Qualitative analysis of focus groups with Aboriginal seniors. *Journal of Cross-Cultural Gerontology* 26(1), 103-117, 2011. DOI: 10.1007/s10823-010-9136-4

Lawson JA, Janssen I, Bruner MW, Madani K, Pickett W. Urban-rural differences in asthma prevalence among young people in Canada: the roles of health behaviours and obesity. *Annals of Allergy, Asthma, and Immunology* 107:220-8, 2011.

Lilley R, Day L, Koehncke N, Dosman J, Hagel L, Pickett W. Saskatchewan farm Injury Cohort Study Team. The relationship between fatigue-related factors and work-related injuries in the Saskatchewan farm injury cohort study. *American Journal of Industrial Medicine* 55:367-375 (2012)

Marlenga B, Pahwa P, Hagel L, Dosman J, Pickett W. Saskatchewan Farm Injury Cohort Study Team. Brison RJ, Crowe T, Koehncke

N. Snodgrass P, Day L, Voaklander D. Impact of long farm working hours on child safety practices in agricultural settings. *Journal of Rural Health*. 26(4):366-72, 2010.

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Morgan D, Cammer A, Stewart N, Crossley M, D'Arcy C, Forbes, D, Karunanayake C. Nursing aide reports of combative behavior by residents with dementia: Results from a detailed prospective incident diary. *Journal of the American Medical Directors Association*, 13(3), 220-227, 2012. DOI: 10.1016/j.jamda.2011.07.003.

Narasimhan G, Crowe TG, Peng Y, Hagel L, Dosman J, Pickett W. A task-based analysis of machinery entanglement injuries among Western Canadian farmers. *Journal of Agromedicine*. 16(4):261-70, 2011 Oct.

Pahwa P, Karunanayake C, Hagel L, Gjevre J, Rennie D, Lawson J, Dosman J. Prevalence of high Epworth Sleepiness Scale score in a rural population. *Canadian Respiratory Journal*. 19(2): e10-e14, 2012.

Pickett W, Day AG, Hagel L, Sun X, Day L, Marlenga B, Brison RJ, Pahwa P, Crowe T, Voaklander DC, Dosman J. Socioeconomic status and injury in a cohort of Saskatchewan farmers. *Journal of Rural Health*. 27(3):245-54, 2011.

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Slaughter S, Morgan D, Drummond N. Functional transitions of nursing home residents with middle-stage dementia: Perspectives of family members and nurses. *Journal of Gerontological Nursing* 37(5), 50-59, 2011. DOI: 10.3928/00989134-20110106-07

Village J, Trask C, Chow Y, Morrison JB, Koehoorn M, Teschke K. Assessing whole body vibration exposure for use in epidemiological studies of back injuries: Measurements; observations; and self-reports. *Ergonomics* 55(4): 415-424, 2012.

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Rennie DC, Lawson JA, Senthilselvan A, Willson PJ, Dosman JA. 2012. Domestic endotoxin and asthma in childhood: Epidemiologic studies. *Frontiers in Bioscience* 1:56-73.

CONFERENCE PROCEEDING AND ABSTRACTS:

Alimezzelli H, Leis A, Karunanayake C, Pahwa P, Denis W, Backman A, Janzen B. Characteristics and determinants of self-rated health of minority francophone seniors living in Canada and their access to health services in French. The World Congress of Epidemiology Conference, August 7-11, 2011, Edinburgh, Scotland.

Barry R, Pickett W, Lawson J. Factors contributing to risks for pediatric asthma in rural Saskatchewan. **Presented:** 10th Conference of the Canadian Rural Health Research Society: Keeping it Rural: Health, Multiculturalism & the Rural-Urban Interface, Richmond, BC, October 20-22, 2011.

Burton R, O'Connell M, Crossley M, Morgan D. Exploring the Natural History of Mild Cognitive Impairment in Memory Clinic Sample Using a Multiple Case Report Format. **Presented:** International Neuropsychological Society, Feb 15-18, 2012, Montreal.

Cammer A, O'Connell M, Crossley M, Morgan D. Connection and action: Results of a telehealth-delivered frontotemporal dementia spousal support group evaluation project. **Presented:** Canadian Association on Gerontology, Ottawa, ON. October 21-23, 2011.

Crossley M, Lanting S, St. Denis-Katz H, O'Connell M, Morgan D. The Northern Cultural Assessment of Dementia (N-CAM): Normative data from an inner city clinic supports utility and validity of a cognitive screen for Aboriginal adults. **Presented:** International Neuropsychological Society, Feb 15-18, 2012, Montreal.

Dal Bello-Haas V, O'Connell M, Morgan D, Crossley M. Physical activity and exercise attitudes in rural and remote seniors referred to a memory clinic. **Presented:** World Physical Therapy 2011, Amsterdam, Holland, June 20-23, 2011.

De Freitas SB. Soaring across time: Ten years of visual identity for the Canadian Rural Health Research Society. **Presented:** 10th Conference of the Canadian Rural Health Research Society: Keeping it Rural: Health, Multiculturalism & the Rural-Urban Interface, Richmond, BC, October 20-22, 2011. Abstract # 3337.

Dyck R, Karunanayake C, Pahwa P, Hagel L, Lawson J, Dosman JA, and the SRHS Research Group. Diabetes rates and risk factors among adults in rural Saskatchewan. **Presented:** 10th Conference of the Canadian Rural Health Research Society. Richmond, BC, October 20-22, 2011.

Finkelstein S, Gibson M, Forbes D, Markle-Reid M, Morgan D, Leskovaar C, Blake C, Culum I. Knowledge needs and knowledge exchange in rural dementia care networks. **Presented:** Ninth Annual Geriatric Psychiatry Symposium, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, November 2, 2011.

Finkelstein S, Gibson M, Forbes D, Markle-Reid M, Morgan D, Leskovaar C, Blake C, Culum I. Knowledge Needs and Knowledge Exchange in Rural Dementia Care Networks. **Presented:** International Psychogeriatric Association, 15th International Conference, The Hague, Netherlands, Sept 6-9, 2011.

Forbes D, Blake C, Salonen E, Finkelstein S, Morgan D, Markle-Reid M, Gibson M, Culum I, Leskovaar C, Little B. What is required to ensure quality dementia care in rural settings? **Presented:** Ninth Annual Geriatric Psychiatry Symposium, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, November 2, 2011.

Forbes D, Blake C, Finkelstein S, Morgan D, Markle-Reid M, Gibson M,

Culum I, Leskovaar C, Osei-Waree J, Thiessen E. Relationships that facilitate and impede knowledge exchange among rural healthcare providers and family caregivers of persons with dementia. **Presented:** Canadian Association on Gerontology, Ottawa, ON. October 21-23, 2011.

Forbes D, Blake C, Salonen E, Finkelstein S, Morgan D, Markle-Reid M, Gibson M, Culum I, Leskovaar C, Little B. What is required to ensure quality dementia care in rural settings? **Presented:** International Congress on Alzheimer Disease, Paris, July 16-21, 2011.

Goodridge D, Lawson JA, Marciniuk D, Rennie DC, Madani K. Functional Health Status and satisfaction with health in a population reporting participation or activity limitation: Focus on COPD. **Presented:** European Respiratory Society's Annual Congress, Sept 24-28, 2011 Amsterdam, Netherlands. *European Respiratory Journal*. 38 (Suppl 55): Abstract P4113.

Haugrud N, Crossley M, Vrbancic M, Morgan D. Clustering and switching strategies during verbal fluency performance differentiate dementia subtypes. **Presented:** International Neuropsychological Society, Feb 15-18, 2012, Montreal.

Janzen B, Pitblado R, Karunanayake C, Hagel L, Pahwa P, Dosman J, & the Saskatchewan Rural Health Study (SRHS) Research Group. The Measurement of Socioeconomic Inequalities in Health in a Rural Population. **Presented:** 10th Canadian Rural Health Research Society Conference, October 20-22, 2011, Vancouver, BC, Canada.

Karunanayake C, Pahwa P, Lawson J, Rennie DC, Hagel L, Gjevre JA, Dosman JA, and the SRHS Research Group. Prevalence and risk factors of subjective sleepiness in a rural population: Saskatchewan Rural Health Study. **Presented:** 10th Conference of the Canadian Rural Health Research Society. Richmond, BC, October 20-22, 2011.

Karunanayake C, Pahwa P, Lawson J, Rennie D, Hagel L, Dosman JA. Prevalence And Risk Factors Of Subjective Sleepiness In A Rural Population. **Presented:** American Thoracic Society International Conference, Denver, CO May 14-18, 2011, *American Journal of Respiratory and Critical Care Medicine*, 183 (Abstracts issue): A5265.

Karunanayake CP, Rennie DC, Pahwa P, Chen Y, Dosman JA. Relationship between lung function and hypertension among rural Canadians using fractional polynomials. **Presented:** Statistical Concepts and Methods for the Modern World conference, 28-30 December 2011, Colombo, Sri Lanka.

Kirk A, Lacny C, Morgan DG, Karunanayake C. Neither Day Length Nor Outdoor Temperature Extremes Affect Cognitive Performance In Rural And Remote Memory Clinic Patients. **Presented:** 4th Pacific Rim Meeting, held in conjunction with the International Neuropsychological Society (INS) and the Australian Society for the Study of Brain Impairment (ASSBI), July 6-9, 2011 in Auckland, New Zealand.

Lacny C, Kirk A, Morgan DG, Karunanayake C. Predictors of Severity of Cognitive Impairment in Rural Patients presenting to a Memory Clinic. **Presented:** 64th Annual Meeting of the American Academy of Neurology. The American Academy of Neurology. New Orleans, LA, United States, April 21 - 28, 2012.

Lawson JA, Pahwa P, Kirychuk S, Karunanayake C, Rennie DC, Hagel L, Dosman J, and the SRHS Research Group. Respiratory symptoms associated with chronic conditions among those with and without asthma or COPD. **Presented:** Canadian Respiratory Conference, Vancouver, BC, April 26-28, 2012.

Lawson JA, Janssen I, Hossain A, Bruner MW, Pickett W. Asthma incidence in a national sample of Canadian adolescents. **Presented:** *European WORLD LEADERSHIP IN HEALTH OF RURAL PEOPLE* 13

Respiratory Society's Annual Congress, Sept 24-28, 2011 Amsterdam, Netherlands. *European Respiratory Journal*. 38 (Suppl 55): Abstract 3224

Lawson JA, Bruner MW, Pickett W, Janssen I, Madani K. Does engagement in health behaviors explain differences in the prevalence of asthma between urban and rural areas? **Presented:** American Thoracic Society International Conference, Denver, CO May 14-18, 2011, *American Journal of Respiratory and Critical Care Medicine*, 183 (Abstracts issue): A5460.

McCormack B, Roberts T, Meyer J, Morgan D. A profound understanding of the person living in long-term care and outcomes associated with RN sensitive care. Paper 1 in Symposium "Valuing the role and contributions the Registered Nurse brings to long-term care: Proceedings from an international meeting." **Presented:** Gerontological Society of America, Boston, MA. Nov, 2011.

Meng X, D'Arcy C, Morgan D. Predisposing characteristics of self-rated health among Canadian seniors in rural and urban settings. **Presented:** 10th Conference of the Canadian Rural Health Research Society, Richmond, BC. October 20-22, 2011.

Meng X, D'Arcy C, Tempier R, Kou C, Morgan D, Mousseau D. Survival of patients with incident dementia who had a pre-existing psychiatric disorder: A population-based 7-year follow-up study. **Presented:** Canadian Society for Epidemiology and Biostatistics National Student Conference, Montreal, June 19-20, 2011.

Meng X, D'Arcy C, Morgan D, Mousseau D. Predicting risk of dementia in Canadians in primary care: The diagnosis algorithm for identifying dementia. **Presented:** Canadian Society for Epidemiology and Biostatistics National Student Conference, Montreal, June 19-20, 2011.

Morgan D, Walls-Ingram S, Cammer A, Crossley M, Forbes D, Innes A, O'Connell M, Stewart N. Pre-diagnosis experiences of informal caregivers of individuals referred to a rural and remote memory clinic. **Presented:** Canadian Association on Gerontology, Ottawa, ON. October 21-23, 2011.

Morgan D, Kosteniuk J, Innes A, Keady J, Goins T, Stewart N, D'Arcy C, Kirk A. Rural idyll vs. rural deficiencies: Dementia care in rural family practice. **Presented:** Canadian Association on Gerontology, Ottawa, ON. October 21-23, 2011.

Morgan D, Walls-Ingram S, Cammer A, Crossley M, Forbes D, Innes A, O'Connell M, Stewart N. The "need to know": The value of assessment and diagnosis for caregivers of individuals referred to a rural and remote memory clinic. **Presented:** Alzheimer Disease International Conference, March 7-10, 2012, London, UK.

Owusu-Kyem A, Pahwa P, Karunanayake C, Koehncke N, Rennie D, Kirychuk S. Changes Over Time in the Lung Function of Swine Workers. **Presented:** 10th Canadian Rural Health Research Society Conference, October 20-22, 2011, Vancouver, BC, Canada.

Pahwa P, Karunanayake C, Hagel L, Lawson J, Rennie D, Kirychuk S, Senthilselvan A, Dosman J, & the SRHS Research Group. Lung function measurements in farming and non-farming rural males. **Presented:** 10th Conference of the Canadian Rural Health Research Society. Richmond, BC, October 20-22, 2011.

Pahwa P, Bryce R, Karunanayake C, Hagel L, Rennie D, Lawson JA, Senthilselvan A, Dosman JA & the SRHS Research Group. Prevalence of Chronic Cough and Phlegm in Farming and Non-farming Rural People. **Presented:** 62nd Annual National Conference of Indian Association of Occupational Health. February 1-4, 2012, New Delhi, India.
Pahwa P, Karunanayake C, Konrad S, Reeder B, & the CHHS Research

Group. Comparison of Non-Frailty Competing Risks and Frailty-Based Competing Risks Models. **Presented:** Statistical Concepts and Methods for the Modern World Conference, 28-30 December 2011, Colombo, Sri Lanka.

Rennie DC, Karunanayake C, Lawson J, Hagel L, Pahwa P, Dosman JA. Differences in the Prevalence of Asthma and Hay Fever in Adult Farming and Non-Farming Populations: The Saskatchewan Rural Cohort Study. **Presented:** American Thoracic Society International Conference, Denver, CO May 14-18, 2011, *American Journal of Respiratory and Critical Care Medicine*, 183 (Abstracts issue): A4756.

Rumsey DG, Rezaei E, Karunansyake CP, Oen KG, Rosenberg AM, Shiff NJ. Predicting Progression from Oligoarticular to Polyarticular Juvenile Arthritis. **Presented:** Canadian Rheumatology Association & Arthritis Health Professions Association Scientific Meeting, Victoria, British Columbia, Canada, March 28-31, 2012.

Stewart N, Morgan D, Cammer A, Karunanayake C, O'Connell M. Gender Differences in Distress over Time for Rural Caregivers of a Family Member Diagnosed with Dementia. **Presented:** Alzheimer Society Saskatchewan- Spotlight on Research 2012, Saskatoon, Canada, January 18, 2012.

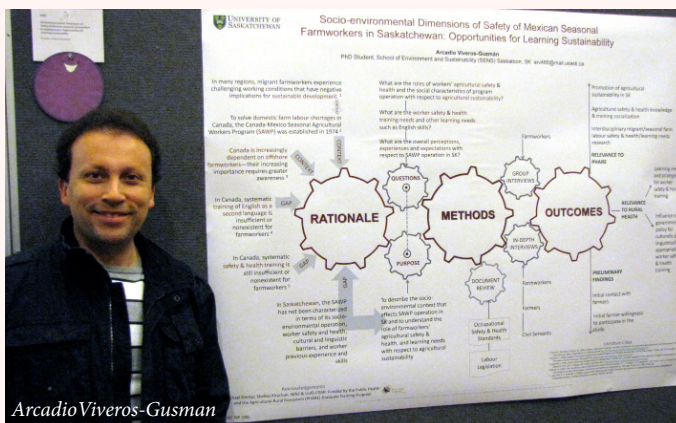
Trask C, Mathiassen SE, Wahlström J, Heiden M, Regahzoli M. Modeling costs of exposure assessment in occupational settings. **Presented:** IEA, 18th World Congress on Ergonomics, Recife, Brazil. February 12-16, 2012.

Walker A, Lawson JA, Rennie DC, Senthilselvan A, Dosman JA. Risk factors for asthma in farming and non-farming environments in children. **Presented:** American Thoracic Society International Conference, Denver, CO May 14-18, 2011, *American Journal of Respiratory and Critical Care Medicine*, 183 (Abstracts issue): A5459.



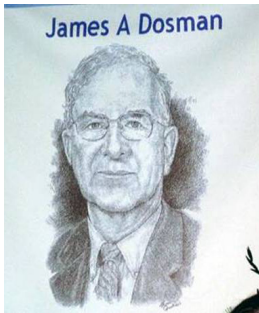
PHARE Students:

Akwasi Owusu-Kyem, Arcadio Viveros-Gusman, Abayomi Olaniyi



Arcadio Viveros-Gusman

AWARDS & APPOINTMENTS: Faculty, Students & Staff:



Ranvir & Punam Pahwa,
James & Susan Dosman,
Chandima Karunanayake.

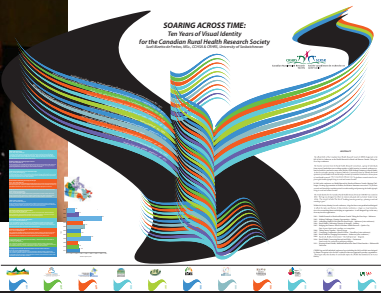
Dr. James A. Dosman was inducted into the Saskatchewan Agricultural Hall of Fame on July 30th and 31st, 2011.

Dr. James A. Dosman received the Order of Canada award which was formally presented at the investiture ceremony for the Order of Canada in Ottawa.

Sueli B. de Freitas won the People's Choice Award for Best Poster at the 10th Canadian Rural Health Research Society Conference held in Richmond & Vancouver from October 20 to 22, 2011.



Sueli de Freitas



Dr. John Gordon received the 2011 Distinguished Researcher Award at the University of Saskatchewan Convocation on June 1st.

Dr. Gordon is Director of the Canadian Centre for Health and Safety in Agriculture.

Dr. Niels Koehncke received a Teaching Award from the Student's Association of the School of Public Health, University of Saskatchewan. **Dr. Koehncke** was promoted to Associate Professor on July 1st, 2011.



Dr. John Gordon



Dr. Niels Koehncke

Dr. Debra Morgan is the recipient of the 2011 CIHR-Institute of Aging Betty Havens Award for Knowledge Translation in Aging. This \$50,000 award honours the distinguished life and career of the late Betty Havens, a pioneer in gerontology who made significant contributions to health services research and its translation, towards improving the quality of life of older Canadians. The award recognizes outstanding achievements and excellence in knowledge translation in aging at a local or regional level, and provides financial support to further foster excellence and innovation in knowledge translation activities.

On May 25th, 2012, **Dr. Morgan** was awarded the University of Saskatchewan, Department of Medicine Research Award silver medal for her research activities over the past year. This year was the first time these awards were given in the department. In June of 2011, **Dr. Morgan** was awarded an Honorary Lifetime Membership with the Alzheimer Society of Saskatchewan in recognition for her contributions to the Society.



Dr. Debra Morgan



Dr. Catherine Trask

Catherine Trask was appointment Assistant Professor on September 1 2011 and, in February 2012 she joined the International Ergonomics Society (IEA) Technical Committee on Agriculture.

HIGHLIGHTS:

CCHSA's future home in the University of Saskatchewan Academic Health Sciences Centre

