



Northern Ontario  
School of Medicine  
École de médecine  
du Nord de l'Ontario  
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# 2014 NORTHERN HEALTH RESEARCH CONFERENCE

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**JUNE 6-7, 2014  
SIOUX LOOKOUT, ONTARIO**



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# WELCOME MESSAGE FROM NOSM



Dr. Roger Strasser

**On behalf of the Northern Ontario School of Medicine (NOSM), I welcome you to the ninth annual Northern Health Research Conference (NHRC).**

We are pleased to be hosting this conference in Sioux Lookout, Ontario, in collaboration with the Sioux Lookout Meno Ya Win Health Centre.

Since the School's beginning, NOSM has encouraged involvement in socially accountable research activities undertaken across the North. The NHRC continues to be an exciting opportunity for researchers to engage with their peers, collaborate, and develop partnerships that will benefit the health of the people and communities of Northern Ontario.

It has been under the guidance of Dr. Greg Ross, NOSM's Associate Dean of Research, that NHRC was created and cultivated. Greg's leadership has been indispensable in the development of NOSM's research initiatives during the first decade of the School's history. After two terms in his current position, Greg has completed his post as Associate Dean, and is looking forward to spending more of his time conducting research out in the field. Please join me in thanking Greg for his exceptional contributions to research at NOSM and in Northern Ontario.



Dr. Greg Ross



Dr. Penny Moody-Corbett

As we extend our appreciation to Greg, we also extend a warm welcome to our new Associate Dean of Research effective July 1, Dr. Penny Moody-Corbett. As the former Associate Dean for Research and Graduate Studies for Memorial University's Faculty of Medicine, Dr. Moody-Corbett brings with her a wealth of experience and expertise that will no doubt bring great benefit to the NOSM community.



To everyone on the organizing committee that dedicated many hours to ensure that each of us enjoys an exceptional Northern Health Research Conference over the next two days, please accept my sincere thanks. Again, I would like to thank the Sioux Lookout Meno Ya Win Health Centre for being a wonderful collaborator and gracious host.

Welcome, and please enjoy the 2014 Northern Health Research Conference!

**Dr. Roger Strasser AM**

Professor of Rural Health  
Dean and CEO

# A MESSAGE FROM THE MENO YA WIN HEALTH CENTRE



**On behalf of Sioux Lookout Meno Ya Win Health Centre, it is with great pleasure that I offer a warm Sioux Lookout welcome to all delegates of the ninth Annual Northern Health Research Conference.**

As you are aware, we have many lessons still to learn in the area of research. It is my sincere anticipation that the Northern Health Research Conference in Sioux Lookout have a long lasting beneficial effect due to the recognition of students, community based researchers and residents striving to strengthen, develop and promote Northern Ontario research activities.

The Research Conference provides delegates the opportunity to exchange knowledge, share their ideas and experiences, and form new research collaborations. We are inspired to discuss ongoing projects in Northern Ontario and expand our reach further beyond the borders of this region by bringing delegates together.

During your visit, I do hope that you will find the time to relax and enjoy the wide range of activities that Sioux Lookout and the surrounding area has to offer.

Thank you for attending this important Research Conference, and again, welcome to Sioux Lookout!



**David Murray, President and CEO**

Sioux Lookout Meno Ya Win Health Centre



# A MESSAGE FROM THE MAYOR



**On behalf of Council and the Municipality of Sioux Lookout, I am delighted to welcome delegates of the ninth Annual Northern Health Research Conference.**

This important conference is an opportunity for students, researchers and residents to network, collaborate and to build on the Northern Ontario School of Medicine's commitment to providing health care and education to the people of Northern Ontario.

As Hub of the North, Sioux Lookout prides itself on the state-of-the-art Meno Ya Win Health Centre and our rich tradition of providing quality health care services to residents and the 30,000 people of the North. Our community values the dedication and hard work of our local health-care workers and continues to support the innovation and expansion of this vital sector.

It is our wish that your stay in Sioux Lookout will afford you the opportunity to explore our natural beauty and hospitality.

**Dennis Leney, Mayor**  
Municipality of Sioux Lookout



**SIOUX LOOKOUT**  
Hub of the North

# A MESSAGE FROM THE MP



**Please accept my sincere regrets for not being able to attend this year's Northern Health Research Conference.**

As a former nurse, I spent a great amount of time in remote, isolated northern communities and I fully appreciate both the challenges and the opportunities that arise in Northern Ontario. Having students, researchers, and professionals such as yourselves at the Northern Ontario School of Medicine and in our communities is vital to overcoming those challenges and taking advantage of the opportunities.

I would like to thank you for the work you do in Northern Ontario, both as a former nurse and as the Member of Parliament for the Kenora riding. The ideas and collaboration that comes from conferences like this one will ensure a bright future in health care for Northwestern Ontario.

**The Hon. Greg Rickford, MP**  
Kenora

# A MESSAGE FROM THE MPP



**As Member of Provincial Parliament for Kenora-Rainy River, it is clear to me that one of my constituents' greatest concerns is with health care in the North.**

The Northern Ontario School of Medicine has demonstrated their commitment to both health care and education for residents here, and I look forward to their further progress in meeting our very specific health-care needs.

I would like to welcome all of the guests to this important ninth annual Northern Health Research Conference in Sioux Lookout. I hope that you will find time in your busy schedule to visit some of the sites in Sioux Lookout and to see what makes this 'Hub of the North' such a beautiful and key part of the landscape here.

Welcome to Sioux Lookout - and may your time here be both fruitful and enjoyable!

**Sarah Campbell, MPP**  
Kenora - Rainy River



# KEYNOTE SPEAKERS



## Saba Khan (Hon B.Sc, MPH)

Saba Khan is an Epidemiologist in the Primary Care and Population Health and Mental Health and Addictions research programs at the Institute for Clinical Evaluative Sciences (ICES) in Toronto. She is the lead Epidemiologist for Aboriginal health research initiatives at ICES, acting as the key liaison for health research and data sharing partnerships between ICES and provincial and regional First Nations and Métis organizations. In addition, Ms. Khan is involved in the research coordination of numerous mental health studies at ICES. She holds a Master's of Public Health in Community Health and Epidemiology with a Global Health Specialization from the Dalla Lana School of Public Health, University of Toronto. Outside of ICES, she serves as Vice-Chair on the Board of Directors of the Alliance for South Asian AIDS Prevention in Toronto.



## Dr. Michael Schull (MD, MSc, FRCPC)

Dr. Michael Schull is President and CEO at the Institute for Clinical Evaluative Sciences (ICES), and Professor in the Department of Medicine at the University of Toronto. His research focuses on health service utilization, quality of care and patient outcomes as they relate to emergency care, and the study of interventions designed to reduce emergency department waiting times. His studies use administrative datasets and linkages with clinical data, and examine the causes and consequences of emergency department overcrowding, variations in patient waiting times, and pre-hospital care. Dr. Schull is currently working with other researchers and health system decision-makers to evaluate policy interventions designed to reduce emergency department waiting times, and innovative ways to better integrate health care between hospital and community providers. Dr. Schull practices as an Emergency Medicine specialist at Sunnybrook Health Sciences Centre in Toronto.



## Dr. Donald A. Redelmeier (MD, MSHSR, FRCPC, FACP)

Dr. Donald Redelmeier received his MD degree from University of Toronto in 1984, completed postgraduate training in Internal Medicine at Stanford University in 1988, and obtained a Master's degree in Health Services Research as a Robert Wood Johnson Scholar at Stanford University in 1991. His research spans a variety of areas, emphasizing the psychology of decision making and the epidemiology of motor vehicle trauma. Dr. Redelmeier has published over 200 articles in the scientific medical literature. Some of his notable discoveries include "Association between cellular-telephone calls and motor vehicle collisions" (NEJM, 1997), "Driving fatalities on Super Bowl Sunday" (NEJM, 2003), and "Physician warnings for unfit drivers and the risk of trauma from a road crash" (NEJM, 2012). Dr. Redelmeier serves as the Canada Research Chair in Medical Decision Sciences; Professor of Medicine at the University of Toronto; Director of Evaluative Clinical Sciences at Sunnybrook Health Sciences Centre; Staff Physician in the Division of General Internal Medicine at Sunnybrook Health Sciences Centre; and a Senior Scientist at the Institute for Clinical Evaluative Sciences in Ontario.

# CONFERENCE AGENDA

Thursday, June 5, 2014		Meno Ya Win Health Centre   Cafeteria
6:00 p.m. – 8:00 p.m.	"Meet and Greet" BBQ	
Friday, June 6, 2014		Meno Ya Win Health Centre   Josias Fiddler Conference Room
8:00 a.m. – 8:45 a.m.	Registration / Poster Setup / Open Poster Viewing	
8:45 a.m. – 9:30 a.m.	Welcome and Opening Remarks from Dignitaries and Special Guests	
9:30 a.m. – 10:15 a.m.	<b>Keynote Speaker</b> <b>Saba Khan Epidemiologist, Institute for Clinical Evaluative Sciences (ICES) and Dr. Michael Schull, President and CEO, Institute for Clinical Evaluative Sciences (ICES)</b> New Opportunities for Working with Aboriginal Health Data at ICES	
10:15 a.m. – 10:45 a.m.	Nutrition Break / Poster Viewing (Group #1)	
10:45 a.m. – 11:15 a.m.	<b>Plenary Talk #1</b> <b>Len Kelly</b> Invasive Methicillin Staphylococcus Aureus	
11:15 a.m. – 11:30 a.m.	<b>Ranjit Baboolal</b> The Use of Probabilistic Risk Assessment (PRA) to Model Events Leading to Iatrogenic Harm Associated with the Application of Non-Invasive Ventilation	
11:30 a.m. – 11:45 a.m.	<b>Ann Ficociello</b> GIS Analysis of Environmental, Socio-demographical and Behavioural Risk Factors for Algoma Nurse Practitioner Patients with Chronic Disease	
11:45 p.m. – 12:00 p.m.	<b>Amanda Hey</b> Breast Cancer Models of Care: What Primary Care Providers Have to Say	
12:00 p.m. – 12:15 p.m.	<b>Leslie Sutherland</b> Tobacco Smoke Exposure Study	
12:15 p.m. – 1:30 p.m.	Lunch / Open Poster Viewing (Groups #1 and #2)	
1:30 p.m. – 2:00 p.m.	<b>Plenary Talk #2</b> <b>Jack Haggarty</b> Unintended Career Successes: How Clinical Research Builds, One Conversation at a Time	
2:00 p.m. – 2:15 p.m.	<b>Len Kelly</b> Incidence and Treatment of Narcotic Abuse in Pregnancy in Northwest Ontario: An Increasing Challenge	
2:15 p.m. – 2:30 p.m.	<b>Paolo Sanzo</b> The Treatment of Rotator Cuff Tendinosis of the Shoulder with Extracorporeal Shockwave Therapy – An Alternative Treatment Consideration for Healthcare Providers	
2:30 p.m. – 2:45 p.m.	<b>Patrick Timony</b> Barriers to Offering French Language Health Services; Perspectives from Family Physicians in Northeastern Ontario	
2:45 p.m. – 3:00 p.m.	<b>Bruce Weaver</b> Is Electrodermal Hyporeactivity Really a Trait Marker of Propensity to Suicide in People with Depression? We Think Not!	
3:00 p.m. – 3:30 p.m.	Nutrition Break / Poster Viewing (Group #2)	
3:30 p.m. – 4:00 p.m.	<b>Plenary Talk #3</b> <b>Ben Chan</b> Quality Improvement in Diabetes: Past Successes in Canada, Future Opportunities for Northern Ontario First Nations	

## Oral Presentation Interactivity:

Keynote Speakers: Talk 30 minutes / Interactivity 15 minutes

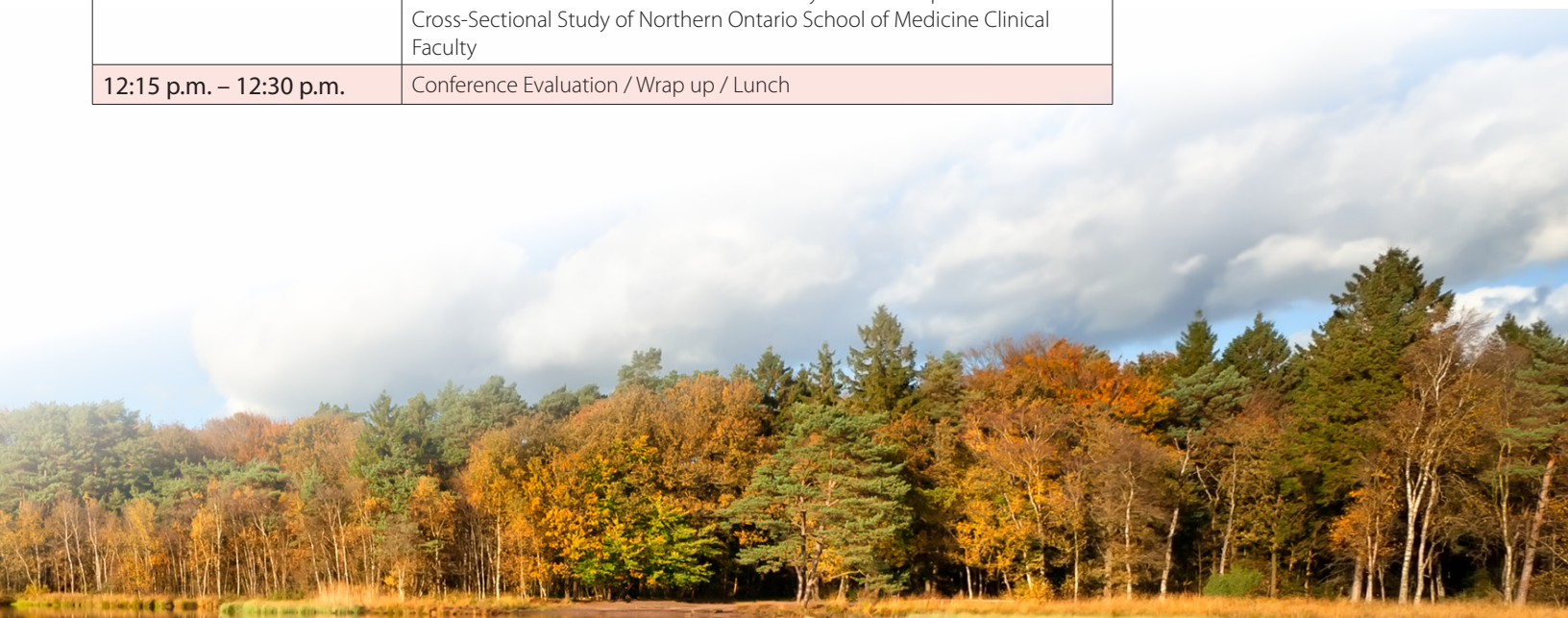
Plenary Speakers: Talk 20 minutes / Interactivity 10 minutes

Oral Speakers: Talk 10 minutes / Interactivity 5 minutes



# CONFERENCE AGENDA

4:00 p.m. – 4:15 p.m.	<b>Michael Conlon</b> Oncology Specialist Consultation in a Decedent Cohort of Residents with Cancer in the Sudbury-Manitoulin District
4:15 p.m. – 4:30 p.m.	<b>Marina Ulanova</b> Groundwork for Creating a New Vaccine to Prevent Invasive <i>Haemophilus influenzae</i> Type A Disease in Canadian Aboriginal Communities
4:30 p.m. – 4:45 p.m.	<b>Matthew Hayman</b> Developing the Framework to Evaluate Pre-Term Infant Care in Hospitals
4:45 p.m. – 5:00 p.m.	Nutrition Break
7:00 p.m. – 9:30 p.m.	Dinner / Social Evening - Lac Seul Arena
<b>Saturday, June 7, 2014</b> <b>Meno Ya Win Health Centre   Josias Fiddler Conference Room</b>	
8:00 a.m. – 8:30 a.m.	Registration / Open Poster Viewing
8:30 a.m. – 8:45 a.m.	AMRIC Welcome by Dr. Francisco Diaz-Mitoma, CEO & Chief Scientist TBRRI Welcome by Dr. Roxanne Deslauriers, Acting CEO
8:45 a.m. – 9:30 a.m.	<b>Keynote Speaker</b> <b>Dr. Donald Redelmeier, Senior Scientist and Director, Institute for Clinical Evaluative Sciences (ICES)</b> Pregnancy and the Risk of a Traffic Crash
9:30 a.m. – 9:45 a.m.	<b>Douglas Boreham</b> Low Dose Diagnostic Radiation Does Not Increase Cancer Risk in Cancer Prone Mice
9:45 a.m. – 10:00 a.m.	<b>Peter Cavanagh</b> The Role of HIV-1 Subtype in Nef-Mediated Immune Evasion
10:00 a.m. – 10:15 a.m.	<b>Stephanie Puukila</b> The Effect of Computed Tomography (CT) or Positron Emission Tomography (PET) on Inflammation and Fibrosis in the Heart
10:15 a.m. – 10:30 a.m.	<b>Joseph Eibl</b> Evaluating Effectiveness of First-time Methadone Maintenance Therapy Across Rural and Urban Regions of Ontario, Canada
10:30 a.m. – 11:00 a.m.	Nutrition Break / Open Poster Viewing (Groups #1 and #2)
11:00 a.m. – 11:30 a.m.	<b>Plenary Talk #4</b> <b>Doris Mitchell</b> The Broken Circle: A Review of Aboriginal Oppression in Canada
11:30 a.m. – 11:45 a.m.	<b>Danielle Barbeau-Rodrigue</b> My Patient/Client Speaks French, and I Don't: Evaluation of a NOSM Preceptor Training Series
11:45 a.m. – 12:00 p.m.	<b>Jaro Kotalik</b> Could Traditional Aboriginal Teaching Provide Basis for Aboriginal Health Care Ethics?
12:00 p.m. – 12:15 p.m.	<b>David Marsh</b> Retention of Rural and Northern Ontario Physicians: A Population-Based Cross-Sectional Study of Northern Ontario School of Medicine Clinical Faculty
12:15 p.m. – 12:30 p.m.	Conference Evaluation / Wrap up / Lunch



# POSTER AGENDA

Group # 1	
Station #	Presenter/Poster Title
1	<b>Peter Cavanagh</b> Extracorporeal Membrane Oxygenation in Blastomycosis Induced Hypoxic Respiratory Failure: An Epidemiology Report and Case Study
3	<b>Joshua Choi</b> The Role of Lipooligosaccharide of <i>Haemophilus influenzae</i> in the Activation of Human Adaptive Immune Response
5	<b>Alyssa Fairservice</b> Addressing Childhood Overweight and Obesity in Northwestern Ontario: What is Being Done and Where to Next?
7	<b>Heidi Forsyth</b> Pseudoesfoliation Glaucoma Risk Assessment in Northern Ontario Through 'Clinical-Genetic' Screening
9	<b>Karina Kachur</b> The Effects of Plant Derived Compounds Thymol and Carvacrol on <i>Pseudomonas aeruginosa</i> Biofilm Formation and Virulence Factor Production
11	<b>Kian Madjedi</b> What is <i>Mino Bimaadiziwin</i> ? Exploring the Meaning(s) of "Living Well" Among Anishinaabe Peoples Living in Sudbury, Ontario
13	<b>Justin Roy</b> Analysis of RBM5 and RBM10 Function in Small Cell Lung Cancer
15	<b>Leslie Sutherland</b> Investigating the Impact of RBM5 Deletion in Lung Cancer
17	<b>Eli Nix</b> Engagement of the Aboriginal Community to Address Immunoepidemiology of Invasive <i>Haemophilus influenzae</i> Type A Disease in Northern Ontario
19	<b>Eli Nix</b> Aboriginal Adults Possess Natural Bactericidal IgG and IgM Antibody Against <i>Haemophilus influenzae</i> Type A
21	<b>Sumeet Sodhi</b> Lessons Learned from Developing an Operations Research Strategy for Evaluating Decentralized Health Services Delivery in Remote and Rural Communities: A Case Study from Dignitas International



# POSTER AGENDA

Group # 2	
Station #	Presenter/Poster Title
2	<b>Ashley Cerqueira</b> Continued Surveillance of Invasive Haemophilus Influenzae Disease in Northwestern Ontario
4	<b>Martha DiGiuseppe and Michael Thibert</b> Health Care and Advocacy: Exploring Barriers to Physical Activity Among Adults With Type II Diabetes in Timmins, Ontario
6	<b>Judith Fernando</b> Determinants of the Onset of Hypothyroidism Post-Radioactive Iodine (RAI) Treatment for Hyperthyroidism
8	<b>Nick Jeeves</b> Impact of a Wilderness-Based Education Model on Interprofessional Collaboration from the Facilitator's Perspective
10	<b>Nick Jeeves</b> ARTful Wilderness Medicine and the Impact on Interprofessional Communication
12	<b>Nancy Perkins</b> DREAM GLOBAL: Implementing Participatory Research
14	<b>Kelly Skinner</b> Towards Better Understanding and Measurement of Food Insecurity in First Nations Households in Canada
16	<b>Joelle Thorgrimson and Daphne Haggarty</b> Charting New Directions for Interprofessional Student-Led Health Outreach in Thunder Bay
18	<b>Bruce Weaver</b> An SPSS Macro to Compute Confidence Intervals for Pearson's Correlation
20	<b>Bruce Weaver</b> USA CYCLIST FATALITY TRENDS 1985-2009
22	<b>Jill Skube, Julie Stachiw, and Marisa Tamasi</b> Nutrition Risk Prevalence in a Northwestern Ontario Hospital Population







# 2015 NORTHERN HEALTH RESEARCH CONFERENCE

## Save the Date

Join us for the tenth annual Northern Health Research Conference, June 5-6, 2015 in Timmins, Ontario.



Timmins and District Hospital  
L'Hôpital de Timmins et du district



# RESEARCH SUPPORT GROUP

*Innovative Education and Research for a Healthier North.*



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## Discover Your Opportunities

The Research Support Group (RSG) at NOSM has been created to assist all faculty, including clinical faculty and NOAMA grantees, as they embark on new research endeavours, create new projects and teams, and inspire to conduct research that is from the North and by the North.

In keeping with NOSM's tradition of a distributed, community-engaged model of medical education and research, the RSG is available to all faculty, wherever they choose to live and work. We are committed to growing research at the Northern Ontario School of Medicine and stand ready to assist faculty as they pursue their research interests.

## Contact Us

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For research assistance,  
email the Health Sciences Library  
at [askthelibrary@nosm.ca](mailto:askthelibrary@nosm.ca)



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This program meets the accreditation criteria of The College of Family Physicians of Canada and has been accredited for up to 9.5 Mainpro-M1 credit(s) as approved by the Continuing Education and Professional Development Office at the Northern Ontario School of Medicine.



**CEPD**  
continuing education and  
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## 16 2014 | NORTHERN HEALTH RESEARCH CONFERENCE



SIoux LOOKOUT  
**Meno Ya Win**  
HEALTH CENTRE

 **CONFERENCE LOCATION**



We would like to thank the following sponsor for their  
generous support of the Northern Health Research Conference:

**AMRIC**  
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