



2016

**NORTHERN HEALTH
RESEARCH CONFERENCE**

**JUNE 24-25, 2016
SAULT STE. MARIE, ONTARIO**

Northern Health Research Conference

The Northern Ontario School of Medicine's Northern Health Research Conference—more commonly known as the NHRC—has been held annually since 2006. The NHRC is hosted in communities across NOSM's wider campus of Northern Ontario and provides an opportunity for researchers and students in the region to present their research and exchange ideas.

In the last 10 years, the conference has travelled to Huntsville, North Bay, Sault Ste. Marie, Sioux Lookout, Sudbury, Thunder Bay, and Timmins. Sault Ste. Marie was actually the very first host partner in this endeavour. This *Naturally Gifted* community, located at the very centre of NOSM's two host universities was critical to the success of the NHRC by taking the leap to host our first conference in 2006. The success was so tremendous that the conference returned to Sault Ste. Marie in 2007 and now, 2016 marks the third Northern Health Research Conference hosted in Sault Ste. Marie on the traditional Ojibway territory of Batchewana First Nation and the neighbouring community of Garden River First Nation.

The Northern Ontario School of Medicine is forever grateful for your support!

This conference demonstrates NOSM's commitment to research, health care, and education to the people of Northern Ontario and beyond. The NHRC explores research activities arising from community-based activities and highlights projects underway from students, residents, and community-based researchers. The conference provides opportunities for collaboration and networking.

Dr. Roger Strasser, NOSM Dean has said: "In order to continue to further the exciting health research taking place in Northern Ontario, it is important that dispersed researchers have an opportunity to come together to discuss their work. This allows for a pan-Northern approach for collaborative research, where ideas can cross-pollinate, and like-minded researchers can combine their talents and expertise to support the development of a healthier Northern Ontario."

NHRC PLANNING COMMITTEE

Dr. David MacLean
Lyne Morvan
Ghislaine Pilot-Attema
Dr. Sheldon Tobe
Dr. Penny Moody-Corbett

NHRC SCIENTIFIC REVIEW COMMITTEE

Dr. David MacLean
Dr. Sheldon Tobe
Dr. Penny Moody-Corbett

Northern Health Research Conference

Oral Presentations Agenda

Thursday, June 23, 2016		Etienne Brulé Salon
16:30 – 18:00	Pre-Registration	
Friday, June 24, 2016		Etienne Brulé Salon
07:30 – 08:30	Registration	
08:30 – 09:00	Welcome and Opening Remarks	
09:00 – 09:15	Deborah Smith and Jennifer Zymantas Clinical Implications of the Introduction of an Alcohol Withdrawal Order Set	
09:15 – 09:30	Devon Tilbrook Opioid Use Disorder and Diabetes: The Effect of Participation in Buprenorphine-Naloxone Substitution Programs on Glycemic Control in Type 2 Diabetes	
09:30 – 09:45	Kristen Zahn Colorectal Screening in Small Northern Communities	
09:45 – 10:00	Sandra Mierdel and Jason Carney Telehomecare Supports Chronic Disease Management in Northern Ontario	
10:00 – 10:15	Nutrition Break	
10:15 – 10:30	Patrick Timony Developing a Research Informed Continuing Educations and Professional Development Program for Family Physicians in Northern Ontario: The Case of Active Offer of French Language Health Services	
10:30 – 10:45	Corliss Best Surgical Peripheral Nerve Decompression for the Treatment of Diabetic Neuropathy in the Foot: A Randomized Control Trial	
10:45 – 11:00	Brooke Noble The Impact of Health at Every Size Versus a Weight Loss Intervention on Diet	
11:00 – 11:15	Erin Lee Evaluation of Three Geriatric Screening Tools in an Oncological Setting	
11:15 – 12:00	Poster Presentations (1)	
12:00 – 13:30	Lunch ICEMEN Keynote Speaker: Dr. Aurel Schofield (12:30 - 13:00) Accessing French-Language Health Services (See page 45 for details.)	
13:30 – 14:30	<i>Northern Health Research Conference Keynote Address</i> Dr. Sheldon Tobe Perspectives From the NOSM-Heart and Stroke Foundation Chair in Aboriginal and Rural Health	
14:30 – 14:45	Anmol Lamba Emergency Ophthalmology in Rural Communities and the Development of a Novel Ocular Triage Algorithm	
14:45 – 15:00	Caitlyn Vlasschaert Using Evolutionary Principles to Discriminate the Non-Redundant Functions of Related Proteins Critical to Innate Immunity and Cancer Biology	
15:00 – 15:15	Majenta Whyte Potter-Mäl Patient Orthopaedic Education: Survey Based Study of Patient Health Literacy	
15:15 – 15:30	Nutrition Break	
15:30 – 15:45	Gwen Healey PILIRIQATIGIINNIQ 'Working in a Collaborative Way for the Common Good': A Perspective on the Space Where Health Research Methodology and Inuit Epistemology Come Together	
15:45 – 16:00	Victoria Eton Epidemiology of Invasive Pneumococcal and Haemophilus Influenzae Disease in Northwestern Ontario, Canada	
16:00 – 16:15	Brittany Best Skin Preparation Techniques in the Hand Surgery Clinic	
16:15 – 16:30	Meagan Roy Childhood Obesity and Overweight Rates in M'Chigeeng First Nation: Five Year Trend	
16:30 – 17:15	Poster Presentation (2)	

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Oral Presentations Agenda

Saturday, June 25, 2016		Etienne Brulé Salon
07:30 – 08:30	Registration	
08:30 – 08:45	Suzanne McGuire Removing Oneself From the Shadows in Epilepsy	
08:45 – 09:00	Teresa Marsh Indigenous Healing and Seeking Safety: A Blended Implementation Project for Intergenerational Trauma and Substance Use Disorders	
09:00 – 09:15	Eli Nix Studies of Immunoepidemiology of Invasive Haemophilus Influenzae Type A Disease in Northwestern Ontario First Nations Communities	
09:15 – 09:30	Morgan Steele Pre-Treatment Platelet Counts as a Prognostic Factor in Stage II and III Rectal Adenocarcinoma	
09:30 – 09:45	Paige Huycke and Jill Ingribelli Aboriginal Cultural Competency in Dietetics: A National Survey of Canadian Registered Dietitians (RDs)	
09:45 – 10:00	Jacques Abourbih Impact of a Community Based Evidence Based Medicine (EBM) Workshop on Participants' Clinical Practice and Teaching of EBM	
10:00 – 10:15	Nutrition Break	
10:15 – 10:30	Sergio Fabris The Concurrent Effect of Tumor and Doxorubicin Chemotherapy on Intracellular and Interstitial Nitric Oxide Concentrations	
10:30 – 10:45	Jasmine Pham A Community-Based Northern Prehabilitation Exercise and Educational Program: Impact on Mobility Measures and Length of Stay (LOS) Post-Total Joint Arthroplasty	
10:45 – 11:30	Poster Presentation (3)	
11:30 – 12:30	<i>Northern Health Research Conference Keynote Address</i> Dr. Frank Sullivan Early Diagnosis of Lung Cancer: The Challenge and Early Results from a 12,000 Patient Trial in Scotland	
12:30 – 13:30	Lunch / Student Session	
13:30 – 13:45	Conference Evaluation and Wrap Up	

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Poster Presentations (1) | 11:15 - 12:00

Friday, June 24, 2016		La Verendrye Salon
Station #	Presenter / Poster Title	
1	Pascale Breault Health care partnership in Manawan and teaching aboriginal health issues	
2	Kristine Saft Family Type, Psychological Well-Being, and Attachment of Children	
3	Stephen Ritchie Emergency Response Systems and Services in Remote First Nations Communities in Northern Ontario: An Environmental Scan	
4	Julien Poitras Citizen involvement: what do citizens wish for?	
5	Emmanuel Abara Bilateral Ureteral Obstruction, Lupus Erythematosus	
6	Lisa Bishop Substance use in pregnancy and parenting: an environmental scan of services in Northwestern Ontario	
7	Nicola Shaw Examining the use of electronic patient portals in an integrated healthcare institution	
8	Claire Burrows The medical student researcher's guide to chart review: challenges and 'pearls' for designing a study that involves the secondary use of Aboriginal patient data	
9	Julie Duff-Cloutier Health service use by persons living with chronic obstructive pulmonary disease	
10	Danna Ferry Designing more effective preventative foot health care for Canadians with diabetes using lessons learned through a Podiatrist / Registered Nurse collaborative practice clinic	
11	Heidi Forsyth Pseudoexfoliation Glaucoma Genetic Screening in Northern Ontario	
12	Megan Gray The implementation of an initiative to encourage early palliative referrals for patients with stage IV lung and pancreatic cancers and its effect on reducing hospital admissions and ER visits: A quality improvement initiative based on a retrospective chart and clinical practice review	
13	Nichola Hoffman Impact of vocal emotional tone on Northeastern Ontario parents' memory and comprehension of information about measles, mumps, and rubella vaccination and on vaccine hesitance	
14	Sarah Hunt Examining the relationship between mine work, tobacco smoke exposure and lung cancer	
15	Tiffany Thompson Use of a personal electronic health record in a small rural community	
16	Paolo Sanzo Knee taping and ground reaction forces in a sit to stand, squat, and vertical jumping task	
17	Kuppuswami Shivakumar How to use simulation in Psychiatric Residency Training Program	
18	Jennifer Walker First Nations-Driven Aging Research: Unlocking Health Information for Older First Nations Populations	

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Poster Presentations (2) | 16:30 - 17:15

Friday, June 24, 2016		La Verendrye Salon
Station #	Presenter / Poster Title	
1	Stephen Ritchie Three-Pronged Approach to Address Gaps in Northern Ontario First Nations Emergency Services & Related Health Data	
2	Chad Prevost Perceived Importance of Professional Competencies for Admission to the College of Kinesiologists of Ontario	
3	Joanne Beyers Visibility is viability: A health unit's journey towards demonstrating their role in chronic disease and injury prevention in the community	
4	Eli Nix Community engagement and methodology for the study of population immunity against Haemophilus influenzae type a (Hia) in Northwestern Ontario	
5	Stacey Santi Patient-assessed changes in Health-Related Quality of Life (HRQOL) in a prospective cohort of men treated with external beam radiation therapy (EBRT) for intermediate-and high-risk prostate cancer at the Northeast Cancer Centre of Health Sciences North.	
6	Laurie Dagg-Labine Porcupine Health Unit Teen Pregnancy Study	
7	Genevieve Eaton Improved functional mobility measures of patients having undergone weight loss surgery through the Bariatric Regional Assessment and Treatment Centre (BRATC) at Health Sciences North	
8	Daniella Febbraro Examination of Current Algoma District Cancer Program Practices and Local Referral Processes for Patients with Prostate Cancer	
9	Lauren Harbottle Help-seeking behaviour among post-secondary students with mental health issues	
10	Gwen Healey Youth perspectives on sexually transmitted infections and sexual health in Northern Canada and implications for public health practice	
11	Cindy Hunt Rural and remote health care services: Tools for enhancing assessment and management of concussion care and persistent symptoms	
12	Melissa Stacey Health challenges of homeless people in Sudbury	
13	Jaro Kotalik What would be the response of bioethics services to assisted dying?	
14	Sebastien Lefebvre Correlation between Clostridium difficile phenotypes and clinical outcome from C. difficile infections (CDI) at Health Sciences North (HSN)	
15	Annie Kingston Miller Promoting cancer screening in Northern Ontario First Nations via culturally safe, gender-based participatory action research	
16	Oksana Motalo Understanding Aboriginal peoples experience of post-study knowledge translation: the story of a First Nation community in Northern Ontario	
17	Ashley Nemec-Bakk Effect of secoisolariciresinol diglucoside on antioxidant status and redox signaling in cardiac iron overload	
18	Paolo Sanzo Leukotape and Kinesiotape affects hip and knee flexion angles and decreases flight time during running in individuals with and without patellofemoral pain syndrome	
19	Nicola Shaw Service dogs, therapy dogs, facility dogs, emotional support animals: What are they and how do they help my patients?	

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Poster Presentations (3) | 10:45 - 11:30

Saturday, June 25, 2016		La Verendrye Salon
Station #	Presenter / Poster Title	
1	Ana Vuin Migration against the tide: Case studies from South Australia and Sweden	
2	Chad Prevost Experiences of Patients and Caregivers Involved in Community Paramedicine Programs in Northern Ontario	
3	Jordan Nixon Paramedic perspectives on community paramedicine and quality of work life in Northern Ontario	
4	Emmanuel Abara Surgical Outreach to Rural Abidjan	
5	Roxanne Deslauriers Contrast optimization for an animal model of prostate cancer MRI at 3T	
6	Corliss Best Otolaryngology exposure in a longitudinal integrated clerkship setting	
7	Dean Carson Why northern communities are different: a demographer's guide to health services planning 'Beyond Periphery'	
8	Emily Donato A rural health conceptual framework	
9	Alexandra Franklyn Factors impacting opioid agonist therapy in Northern Ontario.	
10	Kimberly Heaslip Restraint use: The perceived level of comfort, knowledge, and preparedness of family medicine residents	
11	Chloe Jutras Health care experiences at the family physician's office: the case of Francophone residents of northern Ontario aged 35 years and over	
12	Kian Madjedi Considerations in the design, implementation and process evaluation of pragmatic, participatory Randomized Controlled Trials in Aboriginal communities	
13	Kristen Morin Impacts and Barriers to Accessing Specialized Mental Health and Addiction Services for Adults in Medication Assisted Therapy for Opioid Dependence in Northern Ontario	
14	Sophie Nash Help-seeking Behaviours of University Students in a Northern Ontario Community	
15	Kuppuswami Shivakumar Improving the Access and Quality of Psychiatric Care to Rural and Remote Regions of Northern Ontario- Challenges and Opportunities	
16	Sean Thomas The Role of Formate in Comabttng Oxidative Stress	
17	Sheldon Tobe Dream Global: Survey Results of the Impact of Text Messages for Blood Pressure Management on Health Behaviours in First Nations People With or at Risk for Hypertension	
18	Christopher Olivier Experience of Aboriginal Patients Who Must Relocate to Sioux Lookout for Hemodialysis Services	

NHRC Keynote Speakers

Friday, June 24, 2016 | 13:30 - 14:30

Perspectives from the NOSM-Heart and Stroke Foundation Chair in Aboriginal and Rural Health Research



Dr. Sheldon Tobe

Dr. Tobe became the inaugural Heart and Stroke Foundation (HSF)/Northern Ontario School of Medicine (NOSM) Chair of Rural and Aboriginal Health in 2013. He is also a Nephrologist and Hypertension Specialist at Sunnybrook Health Sciences Centre in Toronto. He received his Master of Science, Community Health, Health Practitioner Teacher Education degree from the Dalla Lana School of Public Health in 2013.

Dr. Tobe's research in the 1990s focused on dialysis research, but by the end of the decade, his focus shifted to blood pressure management to help keep patients off dialysis.

Dr. Tobe's significant contributions have been recognized by awards such as Blood Pressure Canada's Certificate of Excellence (2008), the HSF Ontario's Award for Volunteer Excellence (2010), and many teaching awards. As former chair of the Canadian Hypertension Education Program (CHEP), his knowledge translation efforts have contributed to the dramatic improvement in hypertension awareness treatment and control in Canada over the past 20 years and the associated improvement in mortality from heart failure, stroke and heart attack. Dr. Tobe is also Co-Chair of the Canadian

Cardiovascular Harmonized National Guidelines Endeavour (C-CHANGE) guidelines that have been endorsed by the Council of Federation's Healthcare Innovations Working Group in 2012 for implementation in primary care across Canada.

As the HSF/NOSM Chair of Rural and Aboriginal Health, Dr. Tobe brings his experience working with Indigenous communities including The Diabetes Risk Evaluation and Microalbuminuria (DREAM) studies and the Aboriginal Hypertension Management Program (AHMP). His Hypertension Management Program (HMP) and AHMP study has resulted in improved treatment and control of hypertension in Ontario. He is co-PI of the CIHR/GACD funded DREAM-GLOBAL study (Diagnosing hypertension- Engaging Action and Management in Getting Lower Blood Pressure in Aboriginal and LMIC).

A recognized leader in his field, Dr. Tobe's effective collaborations with researchers, clinicians, policy-makers and Indigenous people have had significant impact in Canada. Dr. Tobe works closely with the Centre for Rural and Northern Health Research (CRaNHR) and has initiated pilot projects to increase the awareness and appreciation for research among Northern health-care providers.

Learning Objectives

- Describe the goals of the NOSM/HSF Chair in Aboriginal and Rural Health Research with respect to research with Indigenous communities.
- List some of the barriers, challenges, and potential pitfalls of promoting more research activities between NOSM and the communities.
- Describe some of the early outcomes and experiences resulting from efforts to achieve the research goals.

Saturday, June 25, 2016 | 11:30 - 12:30

Early Diagnosis of Lung Cancer

The Challenge and Early Results from a 12,000 Patient Trial in Scotland



Dr. Frank Sullivan

Dr. Frank Sullivan has been an Academic General Medical Practitioner with an interest in clinical trials and health informatics since 1984. After graduating from the University of Glasgow, he combined clinical training in Scotland and service general practice with a Ph.D. in Health Services Research. He has mainly worked clinically in two Scottish inner city practices and, more recently, in Toronto. In the early years of his career, Frank undertook a sabbatical to set up a health services research unit in the Republic of Seychelles. From March 1998 until February 2014, he was the NHS Tayside Professor of Research and Development in General Practice and Primary Care and was involved with the development of a regional and national diabetes register in Scotland. The register has been used for clinical care, quality improvement, and research. In the seven years before moving to Toronto, he was the Director of Dundee's Health Informatics Centre and Director of the Scottish School of Primary Care. He is currently the Gordon F. Cheesbrough Research Chair at North York General Hospital in the University of Toronto, Director of the University of Toronto Practice Based Research Network (UTOPIAN) and a clinician in the Family Medicine Teaching Unit.

Dr. Sullivan is a chief investigator on three large family practice trials in earlier diagnosis of lung cancer (ECLS), tonsillectomy for adults (NATTINA) and management of childhood eczema (CREAM) as well as the Scottish Research Register (SHARE). He is also a principal investigator on twelve other studies including two large European Union-funded informatics projects.

Dr. Sullivan has published 222 papers in peer-reviewed journals and his NEJM paper of a trial of steroids and antivirals for Bell's palsy won the 2009 BMA research paper of the year award. He was elected a Fellow of the Royal Society of Edinburgh in 2011.

Learning Objectives

- Describe approaches to the earlier diagnosis of lung cancer
- Discuss the strengths and weaknesses of the Early Cancer detection test – Lung cancer Scotland
- Evaluate whether a similar trial should be undertaken in Ontario.

SAVE THE DATE



NORTHERN HEALTH RESEARCH CONFERENCE

FALL 2017 | THUNDER BAY

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