

36th Annual Scientific Meeting

On-Site
Program

2015

May 20

May 23

Charlottetown,
PEI, Canada

Delta Prince
Edward +
PEI Convention
Centre



the CANADIAN PAIN SOCIETY

la SOCIÉTÉ CANADIENNE de la DOULEUR

Canadian Pain Society / Société canadienne de la douleur

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CanadianPain

2015

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SIG Meetings

Education

Norm Buckley
May 20, 2015
3:00pm - 4:00pm

Interventional Pain

Norm Buckley hosting on behalf of Rod Finlayson
May 20, 2015
4:00pm - 4:30pm

Nursing Issues

Sheila O'Keefe-McCarthy
May 21, 2015
5:30 - 6:30pm

CONFERENCE SCHEDULE AT A GLANCE

PRE-CONFERENCE Wednesday, May 20

8:00am - 1:00pm
CPS Board Meeting
(Board Members Only)
3:00 - 4:30pm
SIG Business Meetings
4:30 - 5:30pm
CPS Board and SIG Chair Meeting
6:00 - 7:30pm
Welcome Reception

DAY 1 - Thursday, May 21

7:00 - 9:00am Breakfast
7:30 - 8:45am Annual General Meeting
8:45 - 9:00am Opening Remarks
9:00 - 9:45am Mary Ellen Jeans Keynote
9:45 - 10:00am Poster Blitz
10:00 - 11:00am Coffee Break / Posters / Trade Show
11:00 - 12:30pm Symposia
12:30 - 1:30pm Lunch / Posters / Trade Show
1:30 - 3:00pm Symposia
3:00 - 4:00pm Coffee Break / Posters / Trade Show
4:00 - 5:30pm Symposia
5:30 - 6:30pm SIG Meetings

DAY 2 - Friday, May 22

8:30 - 8:45am Opening Remarks
8:45 - 9:30am Plenary Session
9:30 - 10:00am Early Career Award Lecture
10:00 - 11:00am Coffee Break / Posters / Trade Show
11:00 - 12:30pm Symposia
12:30 - 1:30pm Lunch / Posters / Trade Show
1:30 - 3:00pm Symposia
3:00 - 4:00pm Coffee Break / Posters / Trade Show
4:00 - 5:30pm Symposia
7:00 - 11:00pm Awards and Gala Dinner

DAY 3 - Saturday, May 23

7:00 - 8:45am Breakfast
8:45 - 9:00am Opening Remarks
9:00 - 9:45am Plenary Session
9:45 - 10:30am Distinguished Career Award Lecture
10:30 - 11:00am Coffee Break
11:00 - 12:30pm Symposia

General Information

Annual Dinner Awards & Entertainment

Seating for the gala dinner is first come, first served and awards will be presented during dinner. Entertainment includes performances by Max Keenlyside, a dazzling pianist and formidable composer, and Vintage 4.0, a full rock band offering up a wide selection of great dance music.

Charging Station:

Charging Stations will be available throughout the venue, inside the exhibit area and at the back of breakout rooms. Make sure you bring your chargers with you to keep your tablets and laptops charged throughout the day – you will need them to access the presentations online.

Prize Draws & Tradeshow

The tradeshow consists of many exhibitors who have information on new products and services. Be sure to visit them while at the conference. Some exhibitors have prize draws at their booth. Bring your business card and be present in the tradeshow on Friday when the draws will take place. For all draws you must be present to win.

CME Credits

As an accredited provider, Dalhousie University, CPD, designates this continuing professional development activity for up to 14.00 credit hours as an accredited group learning Section 1 activity as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

In keeping with CMA Guidelines, program content and selection of speakers are the responsibility of the planning committee. Support is directed toward the costs of the course and not to individual speakers.

Poster Competition

Judging results for the poster boards will be on the morning of Saturday May 23, 2015.



**DALHOUSIE
UNIVERSITY**

FACULTY OF MEDICINE
Continuing Professional
Development

Conference Program

PRE-CONFERENCE - Wednesday, May 20

8:00-1:00pm
3:00-4:00pm
4:00-4:30pm
4:30-5:30pm
5:00-6:00pm
6:00-7:30pm

CPS Board Meeting
Education SIG Meeting
Interventional Pain SIG Meeting
CPS Board + SIG Chairs Meeting
SPOR Patient Engagement Meeting
Welcome Reception

DAY 1 - Thursday, May 21

7:00 - 9:00am Breakfast

7:30 - 8:45am CPS Annual General Meeting

8:45 - 9:00am Opening Remarks

9:00 - 9:45am **KEYNOTE SPEAKER: MARY ELLEN JEANS LECTURE**



UNDERSTANDING HUMAN PAIN PERCEPTION AND ANALGESIA THROUGH ADVANCED NEUROIMAGING

Invited Speaker: Irene Tracey, MA (Oxon), D.Phil (PhD), FRCA

Nuffield Professor Anaesthetic Science & Director, Oxford Centre for FMRI of Brain, Nuffield Department of Clinical Neurosciences, (Head, Nuffield Division Anaesthetics), Oxford University, England, UK

The ability to experience pain is old and shared across species. It confers an evolutionary advantage and provides a warning of harm or impending threat. As far back as Hippocrates, it was understood that the brain was key to a person experiencing pain. Fortunately, these days we now have many techniques available to explore the human central nervous system in vivo from a functional, structural and chemical perspective in both patients and healthy subjects. Relating specific neurophysiologic measures to perceptual or non-perceptual changes induced by peripheral or central sensitisation, behavioural, psychological or pharmacological mechanisms and identifying their site of action within the CNS has both value and has been a major goal for scientists, clinicians and the pharmaceutical industry. Identifying non-invasively where functional and structural plasticity, sensitisation and other amplification or attenuation processes occur along the pain neuraxis for an individual and relating these neural mechanisms to specific pain experiences, measures of pain relief, persistence of pain states, degree of injury and the subject's underlying genetics, has neuroscientific relevance and potential diagnostic value.

Learning Objectives:

1. Better knowledge of the range of physiological measures available using advanced neuroimaging that give novel insights into central pain mechanisms.
2. To understand the importance of the descending pain modulatory system in acute and chronic pain.
3. To learn how current theories regarding how the brain generates perception can inform the pain field.

9:45 - 10:00am Poster Blitz

10:00 - 11:00am Coffee Break / Posters / Trade Show

THERE IS AN APP FOR THAT: USING MOBILE TECHNOLOGY TO IMPROVE CHRONIC PAIN

Chair: **Jennifer Stinson**, RN, PhD, CPNP, Hospital for Sick Children
Speakers: **Robert N. Jamison**, PhD, Brigham and Women's Hospital
M. Cary Reid Jr., MD, PhD, Weill Cornell Medical College
Jennifer Stinson, RN, PhD, CPNP, Hospital for Sick Children

Workshop Objective:

This symposium will detail the content, face validity, reliability, usability, and technical issues associated with the use of pain apps. Challenges with developing these apps and future areas for research will also be discussed.

Learning Objectives:

1. Describe the clinical challenges associated with using smartphone pain apps for remotely monitoring and managing chronic pain.
2. Outline empirical approaches for using smartphone pain apps in different clinical settings with different patient populations.
3. Discuss future areas of research designed to improve compliance and remote data collection among chronic pain patients.

Mobile Technology for Management of Chronic Pain: Development and Implementation of a Smartphone Pain App

Robert N. Jamison, PhD, Brigham and Women's Hospital

Key Issues Related to mHealth and Pain Care in Later Life

M. Cary Reid Jr., MD, PhD, Weill Cornell Medical College

PainSquad: A Smartphone App for "Just-in-time" Monitoring and Management of Pediatric Cancer Pain

Jennifer Stinson, RN, PhD, CPNP, Hospital for Sick Children

SESSION 102

UNDERSTANDING SELF-REGULATORY PROCESSES IN ABDOMINOPELVIC PAIN: WE HAVE THE ANSWERS?

Chair: **Dean Tripp**, PhD, Queen's University
Speakers: **Dean Tripp**, PhD, Queen's University
Adrijana Krsmanovic, MSc, Queen's University
Abi Muere, BSc, Queen's University

Workshop Objective:

The overall aim is to expand upon the current literature on abdominopelvic pain, with a particular focus on Inflammatory Bowel Disease (IBD), Chronic Prostatitis/Chronic Pelvic Pain Syndrome (CP/CPPS), and Interstitial Cystitis/Bladder Pain Syndrome (IC/BPS). The cutting edge research has lagged behind on in-depth discussions of self-regulatory processes and the impact of psychosocial factors on pain and patient outcome. This symposium will discuss how self-regulatory processes function in these abdominopelvic pain conditions. The discussions and the models that may be applied to the treatment of poor patient outcomes will engage researchers and clinicians alike.

Learning Objectives:

1. To develop awareness of the abdominopelvic pain literature on pain, appraisals, and coping.
2. To consider the relationships between pain and psychosocial variables in abdominopelvic pain conditions.
3. To be able to discuss variables of interest in patient outcomes and clinical targets for interventions and pain management.

Mechanisms in the Relationship between Catastrophizing and Pain in Inflammatory Bowel Disease (IBD)

Dean Tripp, PhD, Queen's University

Catastrophizing and Behavioural Coping as Predictors of Physical and Mental Quality of Life in Chronic Prostatitis/Chronic Pelvic Pain Syndrome (CP/CPSP)

Adrijana Krsmanovic, MSc, Queen's University

Psychosocial Mediators and Moderators of the Catastrophizing-Affective Pain Relationship in Interstitial Cystitis/Bladder Pain Syndrome (IC/BPS)

Abi Muere, BSc, Queen's University

SESSION 103**NOVEL SOLUTIONS TO A CHRONIC PROBLEM: IMPROVING PATIENTS' TRIAGING AT TERTIARY PAIN CLINICS**

Chair: **Yoram Shir**, MD, The Alan Edwards Pain Management Unit, McGill University Health Centre

Speakers: **Alexander J. Clark**, MD, FRCPC, Pain Management Unit, Capital Health and Dalhousie University
Lori Montgomery, MD, CCFP, Alberta Health Services Chronic Pain Centre
Yoram Shir, MD, The Alan Edwards Pain Management Unit, McGill University Health Centre

Workshop Objective:

Waiting time for treatment at chronic pain clinics in Canada is still sub-optimal, especially in public tertiary treatment facilities. Consequently, clinics across Canada are creating novel triage systems, resulting in better triage methods and a significant shortening of waiting time. In this symposium we present different approaches successfully implanted in tertiary pain clinics in three different provinces in Canada.

Learning Objectives:

1. To review the triage challenges facing tertiary pain clinics in Canada
2. To describe the establishment of novel triage systems
3. To review preliminary outcomes of the new triage programs

Central Triage and Improving the Consultation Process for Patients with Chronic Pain

Alexander J. Clark, MD, FRCPC, Pain Management Unit, Capital Health and Dalhousie University

Getting the Patient to the Right Place: An Evolving System

Lori Montgomery, MD, CCFP, Alberta Health Services Chronic Pain Centre

Implantation of a New Triage System of Patients Referred to the Pain Unit at McGill University Health Centre

Yoram Shir, MD, The Alan Edwards Pain Management Unit, McGill University Health Centre

SESSION 104

OPTOGENETIC APPROACHES TOWARDS STUDYING PAIN

Chair: **Gerald W. Zamponi**, PhD, University of Calgary

Speakers: **Steve Prescott**, MD, PhD, The Hospital for Sick Children

Philippe Séguéla, PhD, McGill, Montreal Neurological Institute and Hospital

Gerald W. Zamponi, PhD, University of Calgary

Workshop Objective:

In this session, speakers highlight the use of optogenetic techniques to examine the function of primary afferent neurons, and to probe the circuits that are involved in more complex processing of pain related information in the brain.

Learning Objectives:

1. Appreciate the utility of optogenetics in studying the mechanistic underpinnings of pain.
2. Learn about recent advances in understanding pain processes gained through optogenetic approaches.
3. Gain knowledge about novel cellular and molecular targets for pain therapy.

Optogenetic Investigation of Somatosensory Encoding

Steve Prescott, MD, PhD, The Hospital for Sick Children

Optical Control of Peripheral Pain Pathways for Effective Analgesia

Philippe Séguéla, PhD, McGill, Montreal Neurological Institute and Hospital

Optogenetic Approaches to Understanding Chronic Pain

Gerald W. Zamponi, PhD, University of Calgary

12:30 - 1:30pm Lunch / Posters / Trade Show

12:30 - 1:30pm Family Physicians Lunch Meeting

1:30 - 3:00pm **SESSION 105**

WHEN SEX IS PAINFUL: TRANSLATING RESEARCH INTO CLINICAL PRACTICE FOR COUPLES WITH VULVODYNIA

Chair: **Natalie O. Rosen**, PhD, Dalhousie University

Speakers: **Kate Rancourt**, BSc, Dalhousie University

Natalie O. Rosen, PhD, Dalhousie University

Serena Corsini-Munt, MA, Université de Montréal

Workshop Objective:

Provide an overview of current research on the biopsychosocial factors involved in vulvodynia, and the translation of basic clinical research on interpersonal factors and pain acceptance into intervention research for couples affected by this condition.

Learning Objectives:

1. Describe the interpersonal context of vulvodynia and discuss recent research on the role of dyadic sexual communication in women and partners' pain and sexual outcomes.
2. Understand the role of pain acceptance on pain, psychological, and sexual outcomes in couples where the woman has vulvodynia, and describe the unique contribution of the partner's pain acceptance on the couple's outcomes.
3. Understand pain management and sex therapy strategies that show preliminary efficacy in the treatment of vulvodynia for women and their partners, and describe considerations for clinical testing of a newly developed psychological treatment option for couples with PVD.

Let's Talk About Sex: The Role of Sexual Communication in Couples' Pain Experience and Sexual Adjustment to Vulvodynia

Kate Rancourt, BSc, Dalhousie University

Living a Valued Life Despite Painful Intercourse: Acceptance of Chronic Pain in Women with Vulvodynia and their Partners

Natalie O. Rosen, PhD, Dalhousie University

From Research to Clinical Practice: The Development and Clinical Testing of a Cognitive-behavioral Couple Therapy for Vulvodynia

Serena Corsini-Munt, MA, Université de Montréal

SESSION 106

USING YOUTUBE VIDEOS AS A MEANS OF WIDELY DISSEMINATING KNOWLEDGE ABOUT PAIN

Chair: **Denise Harrison**, RN, PhD, Children's Hospital of Eastern Ontario

Speakers: **Karen Davis**, PhD, Toronto Western Research Institute (TWRI)

Denise Harrison, RN, PhD, Children's Hospital of Eastern Ontario,
University of Ottawa

Christine Chambers, PhD, RPsych, Dalhousie University

Workshop Objective:

This symposium will focus on the use of the social media platform of YouTube as a means to disseminate pain research aimed at sharing knowledge about mechanisms of pain, and effective pain management during procedures in infants and children.

Learning Objectives:

1. To gain an understanding of methods used to disseminate pain research through the social medium of YouTube.
2. Understand research methods used to track reach and impact of posted YouTube videos.
3. Gain an understanding of the challenges and limitations of using social media as a knowledge translation medium.

How Does your Brain Respond to Pain? A TED-Ed YouTube Animation

Karen Davis, PhD, Toronto Western Research Institute (TWRI)

Be Sweet to Babies - Using YouTube as a Means to Disseminate Effective Pain Management Strategies for Infants

Denise Harrison, RN, PhD, Children's Hospital of Eastern Ontario, University of Ottawa

It Doesn't Have to Hurt: Disseminating Effective Strategies to Reduce Immunization Pain and Fear in Children Using YouTube

Christine Chambers, PhD, RPsych, Dalhousie University

SESSION 107

CANNABIS FOR PAIN: EVIDENCE, EDUCATION AND EVOLUTION

Chair: **Mark A. Ware**, MBBS, MRCP, MSc, Alan Edward Pain Management Unit

Speakers: **Ruth Dubin**, MD, PhD, FCFP; CFPC Chronic Pain Committee

Mark A. Ware, MBBS, MRCP, MSc, Alan Edward Pain Management Unit

Mary Lynch, MD, FRCPC, Dalhousie University

Workshop Objective:

Attendees will learn about the Marijuana for Medical Purposes Regulations (MMPR), its background and its foreseeable future; the history, development and future of the CFPC guidance documents, and recent systematic reviews of the clinical trial evidence for the use of cannabis and cannabinoids in the management of pain.

Learning Objectives:

1. *Understand the history, rationale and mechanisms of the new Marijuana for Medical Purposes Regulations.*
2. *Appreciate the challenges and concerns of the family physician regarding medical cannabis use and learn ways to manage these concerns.*
3. *Review and critique the evidence for the use of cannabinoid in the pain management of chronic non-cancer pain.*

Black and White and Read all Over: The College of Family Physicians of Canada (CFPC) Tackles the Issue of Medical Marijuana

Ruth Dubin, MD, PhD, FCFP, CFPC Chronic Pain Committee

The Safety of Medical Cannabis: Old Approaches and New Applications

Mark A. Ware, MBBS, MRCP, MSc, Alan Edward Pain Management Unit

The Efficacy of Cannabinoids for the Treatment of Pain: Results of a Systematic Review

Mary Lynch, MD, FRCPC, Dalhousie University

SESSION 108

HOT TOPICS

Chair: **Jeffrey S. Mogil**, PhD, Alan Edwards Centre for Pain Research, McGill University

Speakers: **Samantha R. Fashler**, MA, York University

Neil A. Hagen, MD, FRCPC, University of Calgary

Rebecca Price, BA, McGill University; **Alexander H. Tuttle**, BSc, McGill University

Alexander H. Tuttle, BSc, McGill University

Hichem Saidi, Centre de recherche du centre hospitalier de l'universite de Montreal

Mohammed F. Shamji, MD, PhD, FRCSC, Toronto Western Hospital, University of Toronto

Canadian Pain Coalition Report Card On Pain: Systematic Review Of Multidisciplinary Chronic Pain Services In Canada

Samantha R. Fashler, MA, York University; L. Cooper; L. C. Burns; S. Razavi; L. Goldberg; E. Oosenbrug; J. Katz

Tetrodotoxin For Moderate To Severe Cancer-Related Pain: A Multicentre, Randomized, Double-Blind, Placebo-Controlled, Parallel-Design Trial

Neil A. Hagen, MD, FRCPC, University of Calgary; L. Cantin; J. Constant; T. Haller; G. Blaise; M. Ong-Lam; P. du Souich; W. Korz; B. Lapointe

Opioid Blockade Decreases Subjective Ratings Of Relief

Rebecca Price, BA, McGill University; W. Gandhi; M.-E. Hoeppli; S. Becker; P. Schweinhardt

A Meta-Regression Analysis Of Placebo Response In Clinical Trials Of Neuropathic Pain

Alexander H. Tuttle, BSc, McGill University; S. Tohyama; T. Ramsay; J. Kimmelman; P. Schweinhardt; G.J. Bennett; J.S. Mogil

Long-Term Effectiveness Of Opioids Among Chronic Non-Cancer Pain Patients Attending A Multidisciplinary Pain Treatment Facility: A Quebec Pain Registry Study

Hichem Saïdi, Centre de recherche du centre hospitalier de l'universite de Montreal; G. Pagé; M. Ware; M. Choinière

Mechanical Allodynia Following Disc Herniation Requires Intraneural Macrophage Infiltration And Can Be Strategies Limiting Macrophage Activity

Mohammed F. Shamji, MD, PhD, FRCSC, Toronto Western Hospital, University of Toronto; Y.S. Tu; M.W. Salter

3:00 - 4:00pm Coffee Break / Posters / Trade Show

4:00 - 5:30pm **SESSION 109**

ORGANIZATIONAL INITIATIVES TO INCREASE INTERPROFESSIONAL PAIN COMPETENCIES AND DECREASE THE KNOWLEDGE TO PRACTICE GAP

Chair: **Bonnie Stevens**, RN, PhD, Hospital for Sick Children, University of Toronto

Speakers: **Judy Watt-Watson**, RN, MSc, PhD, University of Toronto

Bonnie Stevens, RN, PhD, Hospital for Sick Children, University of Toronto

G. Allen Finley, MD, FRCPC, FAAP, Dalhousie University

Workshop Objective:

To identify and describe organizational pain initiatives to increase interprofessional pain competencies and bridge the knowledge to practice gap.

Learning Objectives:

1. To increase awareness and knowledge of interprofessional pain competencies.
2. To explore 3 examples of organizational initiatives to increase interprofessional pain competencies and decrease the knowledge to practice gap including: a. An interfaculty pain curriculum in an academic setting; b. A quality improvement

plan to promote optimal pediatric pain assessment and management practices in clinical settings; c. An international accreditation initiative for enhancing pain prevention and management.

3. To determine the impact of organizational context on outcomes.

Enhancing Pain Competencies through an Interprofessional Pain Curriculum

Judy Watt-Watson, RN, MSc, PhD, University of Toronto

The SickKids Pain Centre QIP Initiative to Increase Pain Competencies and Improve Clinical Practice Outcomes

Bonnie Stevens, RN, PhD, Hospital for Sick Children, University of Toronto

The ChildKind International Initiative - An Organizational Accreditation Process for Pain Prevention and Management

G. Allen Finley, MD, FRCPC, FAAP, Dalhousie University

SESSION 110

TRAINEE SESSION: CAREER PATHS IN PAIN RESEARCH AND PRACTICE

Chair: **Whitney Scott**, BSc, PhD, King's College London

Speakers: **Irene Tracey**, MA (Oxon), D.Phil (PhD), FRCA, Oxford University

Mark A. Ware, MBBS, MRCP, MSc, Alan Edward Pain Management Unit

Fernando Cervero, MB ChB, PhD, DSc, McGill University

Workshop Objective:

Pain research trainees possess considerable skills to help them pursue a range of careers. The traditional academic faculty route is one path by which trainees may capitalize on their skills. Beyond academia, pain research trainees may pursue careers in areas as diverse as industry, clinical work, and patient advocacy. The purpose of this trainee oriented symposium is to highlight career opportunities available to basic and clinical pain research trainees for successfully deploying their many skills. The session will bring together a multidisciplinary group of experts who will reflect on their own careers paths in pain research and practice and provide advice to trainees for success across a range of careers. Active participation among attendees will be encouraged throughout the session.

Learning Objectives:

1. Become aware of transferable skills and talents that can be used to succeed in academia and a wider range of employment areas.
2. Identify strategies for successfully integrating research, clinical practice, and patient advocacy efforts.
3. Understand how the changing research climate may impact career development and the value of curiosity-driven research.

Putting your skills to good use: Capitalizing on your transferable skills to succeed within academia and beyond.

Irene Tracey, MA (Oxon), D.Phil (PhD), FRCA, Oxford University

Diversifying and synergizing: Tips for developing and drawing on a range of skills to maximize your career success.

Mark A. Ware, MBBS, MRCP, MSc, Alan Edward Pain Management Unit

To boldly go: Blue skies research in a changing world.
Fernando Cervero, MB ChB, PhD, DSc, McGill University

SESSION 111

NEURONAL EXCITABILITY AND PAIN

Chair: **Michael Hildebrand**, PhD, Carleton University

Speakers: **Jason McDougall**, PhD, Dalhousie University

Slobodan Todorovic, MD, PhD, University of Virginia School of Medicine

Michael Hildebrand, PhD, Carleton University

Workshop Objective:

This session will highlight current research aimed at identifying the specific types of receptors and channels which play critical roles in shaping the excitability of nociceptors and dorsal horn neurons. We will discuss the molecular mechanisms whereby changes in receptor / channel activity result in increased neuronal activity and pathological pain. Finally, we will offer insights into how this knowledge could potentially lead to new molecular targets for the treatment of pain.

Learning Objectives:

1. *To gain an appreciation of the diverse types of receptors and channels that regulate the excitability of peripheral nociceptors and central dorsal horn neurons, including proteinase-activated receptors, voltage-gated calcium channels, and synaptic NMDA receptors.*
2. *To understand how enhanced activation of these receptors and channels leads to neuronal hyperexcitability in models of inflammatory and neuropathic pain.*
3. *To gain insights into potential new therapeutic strategies for reversing pathological pain by targeting specific modulators of channel / receptor activity.*

Pain Signalling by Proteolytic Enzymes

Jason McDougall, PhD, Dalhousie University

Regulation of Neuronal Excitability of Peripheral Nociceptors via Post-translational Modification of Voltage-gated Calcium Channels

Slobodan Todorovic, MD, PhD, University of Virginia School of Medicine

Synaptic NMDA Receptors in Spinal Mechanisms of Pain Processing

Michael Hildebrand, PhD, Carleton University

SESSION 112

INTERVENTIONAL MANAGEMENT OF PAIN

Chair: **Mohammed F. Shamji**, MD, PhD, FRCSC, Toronto Western Hospital, University of Toronto

Speakers: **Anuj Bhatia**, Toronto Western Hospital

Philip Peng, Toronto Western Hospital

Mohammed F. Shamji, MD, PhD, FRCSC, Toronto Western Hospital, University of Toronto

Workshop Objective:

Proper application of interventional techniques in the management of chronic pain has the potential to affect pain, disability, quality of life, and pharmacotherapy use. This session will instruct the audience about the

evidence, techniques, and outcomes of various interventional options for the management of chronic neuropathic pain.

Learning Objectives:

1. To review the evidence and techniques for injection procedures in the management of chronic pain.
2. To discuss the evidence for drug infusions in the management of neuropathic pain.
3. To define the indications and review techniques for spinal cord stimulation in the management of neuropathic pain.

Interventional Procedures for Treatment of Chronic Pain

Anuj Bhatia, Toronto Western Hospital

Infusion Techniques for Neuropathic Pain

Philip Peng, Toronto Western Hospital

Spinal Cord Stimulation for Neuropathic Pain

Mohammed F. Shamji, MD, PhD, FRCSC, Toronto Western Hospital, University of Toronto

5:30 - 6:30pm Nursing Issues SIG Educational Workshop

DAY 2 - Friday, May 22

8:30 - 8:45am Opening Remarks

8:45 - 9:30am **PLENARY SESSION**



A LIPID KINASE THAT REGULATES NOCICEPTIVE SIGNALING AND SENSITIZATION

Speaker: **Mark Zylka**, PhD, Associate Professor, Department of Cell Biology & Physiology, UNC Neuroscience Center, University of North Carolina, Chapel Hill

Numerous pain-producing (pronociceptive) receptors signal via phosphatidylinositol 4,5-bisphosphate (PIP₂) hydrolysis. However, it is currently unknown which lipid kinases generate PIP₂ in nociceptive dorsal root ganglia (DRG) neurons and if these kinases regulate pronociceptive receptor signaling. In this presentation, I will describe a lipid kinase that is expressed in all DRG neurons, including peptidergic and nonpeptidergic nociceptive neurons, and that generates at least half of all PIP₂ in DRG neurons. A genetic deficiency of this kinase leads to reduced pronociceptive receptor signaling in DRG neurons and reduced noxious thermal and mechanical sensitization in mouse models of chronic pain. This kinase also regulates signaling downstream of the capsaicin receptor TRPV1. We identified a novel small molecule inhibitor of this kinase in a high-throughput screen. This inhibitor lowered PIP₂ levels in DRG neurons and attenuated noxious thermal and mechanical sensitization when administered intrathecally. Our studies reveal that this lipid kinase regulates PIP₂-dependent nociceptive signaling and suggest that this lipid kinase is a novel therapeutic target for chronic pain.

Learning Objectives:

1. Educate audience about a lipid kinase that has not previously been studied in nociceptive neurons.
2. Provide new information about how this kinase regulates phosphoinositide levels and receptor signaling in nociceptive neurons.
3. Audience will also learn about how to identify inhibitors of this kinase using a novel high throughput screen we developed.

9:30 - 10:00am EARLY CAREER AWARD LECTURE**MECHANISMS, OUTCOMES AND MOBILIZATION OF MATERNALLY-LED INTERVENTIONS TO IMPROVE PAIN OUTCOMES IN NEWBORNS**

Speaker: **Marsha Campbell-Yeo**, PhD, RN, NNP-BC, PhD School of Nursing, Departments of Pediatrics Psychology and Neuroscience, Dalhousie University and Centre for Pediatric Pain Research, IWK Health Centre, Halifax.

In addition to frequent exposure to early pain, the developmental trajectory of preterm infants requiring hospitalization in the NICU is further compromised by prolonged periods of maternal separation. While the importance of social context has been well described in paediatric and adult populations, it has not been well studied in relation to neonatal care. The aim of Dr. Campbell-Yeo's program of research is to improve the way that procedural pain is managed for both at-risk and healthy newborns by enhancing maternal and family contribution to be actively involved in their child's care. Specifically, her research examines the effectiveness of maternally-led interventions to improve newborn outcomes related to pain, stress and neurodevelopment and the development of innovative implementation strategies to optimize the uptake of novel pain management practices to improve patient outcomes.

Learning Objectives:

1. Appreciate how maternally-led interventions such as skin-to-skin contact can improve outcomes in at-risk newborns related to procedural pain and subsequent neurodevelopment.
2. Explore possible mechanisms that may underlie the immediate effectiveness and potential protective longer lasting impact of these interventions.
3. Describe challenges and solutions associated with the implementation and practice uptake of these interventions by both parents and health care providers.

10:00 - 11:00am Coffee Break / Posters / Trade Show

10:00 - 11:00am Specialty Committee in Pain Medicine Meeting

11:00am - 12:30pm SESSION 201**PROBING NEURAL NETWORKS DYNAMICS OF PAIN AND ATTENTION: INSIGHTS INTO BRAIN MECHANISMS UNDERLYING INDIVIDUAL VARIABILITY IN PAIN COPING AND CHRONIC PAIN VULNERABILITY**

Chair: **Karen Davis**, PhD, Toronto Western Research Institute (TWRI)

Speakers: **Aaron Kucyi**, PhD, Harvard Medical School

Etienne Vachon-Presseau, PhD, Northwestern University

Mathieu Roy, PhD, Concordia University

Workshop Objective:

This Symposium, chaired by Karen Davis, will examine how neural networks

represent individual differences in pain perception, attention, associated mood changes, and pain avoidance. Data from cutting edge imaging and modeling approaches, including dynamic functional connectivity, tractography, and graph theory, will shed light on the dynamic states of these representations, and how these may reflect pain sensitivities, coping, vulnerabilities and transitions to chronic pain states.

Learning Objectives:

1. Understand the new, emerging theories of network organization and dynamics underlying acute and chronic pain.
2. Understand how network dynamics variability represent potential sources of intersubject pain variability and vulnerabilities, and conversely how chronic pain may impact neural networks of pain.
3. Understand concepts of pain motivation and learning models that underlie pain avoidance choices.

Brain Dynamics of Intrinsic Attention to Pain

Aaron Kucyi, PhD, Harvard Medical School

A neurological model of vulnerability for chronic pain

Etienne Vachon-Preseau, PhD, Northwestern University

Cerebral Mechanisms of Pain Avoidance Learning

Mathieu Roy, PhD, Concordia University

SESSION 202

KEEPING THE “I” IN PAIN: NOVEL APPROACHES FOR INTEGRATING THE SUBJECTIVE PAIN EXPERIENCE INTO THEORY, RESEARCH AND PRACTICE

Chair: **Timothy H. Wideman**, BSc (PT), PhD, McGill University

Speakers: **Timothy H. Wideman**, BSc (PT), PhD, McGill University

Geoff Bostick, BSc (PT), PhD, University of Alberta

Whitney Scott, BSc, PhD, King's College London

Workshop Objective:

Participants will be able to better conceptualize and address the subjective experience of pain within research and clinical settings.

Learning Objectives:

1. Participants will be able to use the Measurement Model of Pain as a conceptual framework for relating first and third-person perspectives of pain within research and clinical practice settings.
2. Participants will understand how established approaches to mixed-methodological research can help clinicians and researchers better evaluate others' pain by integrating narrative reports of the subjective pain experience with data from quantitative pain measures.
3. Participants will have a better understanding of the experience and potential impact of invalidation in patients with pain, and will learn practical strategies for incorporating patients' subjective pain experience into the clinical encounter.

Conceptualizing the “I” and “You” of Pain: Introducing the Novel Measurement Model of Pain as a Means of Relating First and Third-person Perspectives of Pain

Timothy H. Wideman, BSc (PT), PhD, McGill University

Let's Meet in the Middle: Integrating Patient Narratives and Quantitative Measures for a Better Understanding of the Pain Experience

Geoff Bostick, BSc (PT), PhD, University of Alberta

Integrating the Subjective Experience of Pain into Clinical Practice from the Perspective of a Pain Psychologist

Whitney Scott, BSc, PhD, King's College London

SESSION 203

EVALUATION OF ABUSE DETERRENT OPIOIDS IN THE OPIOID-DEPENDENT POPULATION: AN OVERVIEW OF CLINICAL APPROACHES, ETHICAL CONSIDERATIONS, AND PATIENT MANAGEMENT CHALLENGES

Chair: **Hance Clarke**, MD, PhD, FRCPC, University of Toronto, University Health Network

Speakers: **Beatrice Setnik**, PhD, INC Research

Pierre Geoffroy, MDCM, MSc, FCFP, First Step Medical Clinic, INC Research

Jack Corman, BSc, BEd, IRB Services (a Chesapeake IRB Company)

Workshop Objective:

This symposium will discuss the importance of including high opioid-dependent or methadone-maintained subjects in opioid development, the clinical challenges, ethical considerations, and study methodology required to accommodate this population and the clinical approaches to mitigating risk and ensuring subject safety during this evaluation.

Learning Objectives:

1. *To provide an overview of the methodological approaches for clinical trials assessing abuse deterrent opioids in methadone-maintained patients.*
2. *To explore how lessons learned from managing methadone-maintained patients can help identify safe and effective strategies in treating patients with co-morbid substance use disorder.*
3. *To examine relevant guiding ethical principles that may justify research in opioid-dependent populations.*

Assessment of Objectives and Methodological Approaches for Assessing Abuse Deterrent Opioids in Dependent and Methadone-maintained Patients

Beatrice Setnik, PhD, INC Research

A Review of Safe and Effective Strategies when Treating Pain Patients with Co-morbid Substance Use: Lessons Learned from the Management Methadone-maintained Patients

Pierre Geoffroy, MDCM, MSc, FCFP, First Step Medical Clinic, INC Research

Abuse Deterrent Opioids in Opioid-Dependent Population: What Makes Research Ethical?

Jack Corman, BSc, BEd, IRB Services (a Chesapeake IRB Company)

SESSION 204

"ALL MY JOINTS HURT AND PEOPLE THINK I'M CRAZY!" - PAIN AND HYPERMOBILITY IN YOUNG PEOPLE

Chair: **G. Allen Finley**, MD, FRCPC, FAAP, Dalhousie University, IWK Health Centre

Speakers: **Anthony Vandersteen**, MA, PhD, MB, FRCP(Lond), Dalhousie University/IWK Health Centre

G. Allen Finley, MD, FRCPC, FAAP, Dalhousie University, IWK Health Centre

Michael Sangster, MBA, BScPT, IWK Health Centre/Dalhousie University

Workshop Objective:

We hope to provide a logical approach to assessment and management of children and adolescents with both chronic pain and hypermobility. There will be ample opportunity for audience discussion and sharing of experience.

Learning Objectives:

1. Attendees will understand the implications of hypermobility and genetic diagnoses in relation to chronic pain in children and adolescents.
2. Attendees will be aware of current orthopaedic questions related to hypermobility and pain, as well as appropriate surgical and non-surgical management approaches.
3. Attendees will be able to articulate the current best evidence physiotherapy management of patients experiencing neuropathic pain associated with joint hypermobility syndrome. Attendees will be able to articulate the current understanding of pathophysiology of the development and maintenance of neuropathic pain associated with joint hypermobility syndrome.

"All my Joints Hurt, and it's my Parents' Fault"

Anthony Vandersteen, MA, PhD, MB, FRCP(Lond), Dalhousie University/IWK Health Centre

"All my Joints Hurt, and my Doctor Thinks I'm Crazy"

G. Allen Finley, MD, FRCPC, FAAP, Dalhousie University, IWK Health Centre

"All my Joints Hurt, and it's Getting on my Nerves"

Michael Sangster, MBA, BScPT, IWK Health Centre/Dalhousie University

12:30 - 1:30pm Lunch / Posters / Tradeshow

1:30 - 3:00pm **SESSION 205**

A NOVEL, MULTIDISCIPLINARY, TRANSITIONAL PAIN SERVICE DESIGNED TO MANAGE SEVERE, ACUTE POSTSURGICAL PAIN AND PREVENT THE TRANSITION TO CHRONICITY

Chair: **Joel Katz**, PhD, MA, York University

Speakers: **Salima Ladak**, BScN, MN, University Health Network, University of Toronto

Hance Clarke, MD, PhD, FRCPC, University of Toronto, University Health Network

Aliza Weinrib, MA, PhD, Toronto General Hospital

Workshop Objective:

This symposium will discuss the clinical criteria that were developed to identify patients - during the early post-surgical period - who would benefit from inter-professional care from the Transitional Pain Service (TPS). Furthermore, the symposium will utilize cases from the TPS to illustrate the novel psychological approach to managing acute and persistent pain after surgery and will present both pharmacological and non-pharmacological management techniques employed by the pain specialists with a focus on the successes and challenges of implementing the TPS over the past year.

Learning Objectives:

1. *Symposium participants will understand recent trends in the prevalence of persistent post-surgical pain.*
2. *Participants will understand the multidisciplinary team involved in the Transitional Pain Service.*
3. *Participants will understand the role of the psychologist in this novel program to prevent persistent pain after surgery.*

Who is at Risk for Chronic Post-surgical Pain? Exploring the Pre and Post-Operative Period

Salima Ladak, BScN, MN, University Health Network, University of Toronto

The Implementation of the Transitional Pain Service: Successes and Challenges

Hance Clarke, MD, PhD, FRCPC, University of Toronto, University Health Network

Psychological Intervention for Post-Surgical Pain in the Transitional Pain Service

Aliza Weinrib, MA, PhD, Toronto General Hospital

SESSION 206**CULTURAL VARIABILITY IN PAIN: IDENTIFYING EFFECTIVE PAIN ASSESSMENT MANAGEMENT STRATEGIES**

Chair: **Rebecca Pillai Riddell**, PhD, CPsych, York University

Speakers: **G. Allen Finley**, MD, FRCPC, FAAP, Dalhousie University, IWK Health Centre

Margot Latimer, RN, PhD, Dalhousie University, IWK Health Centre

Monica O'Neill, MA, York University

Workshop Objective:

This multidisciplinary presentation (anesthesiology, nursing, psychology) sets out to present new research investigating cultural differences in pain expression and the factors that influence this variability.

Learning Objectives:

1. *To clarify the challenges involved with understanding individual differences and cultural stereotypes in clinical practice.*
2. *To inform participants about the cross-cultural factors in pain assessment and management through new research in a Canadian Aboriginal context.*
3. *To elucidate a novel research framework for understanding cultural variability in acute pain through an examination of caregiver soothing behaviours.*

Capacity Building in Healthcare: Cross-Cultural Perspectives of Pain Assessment and Management

G. Allen Finley, MD, FRCPC, FAAP, Dalhousie University, IWK Health Centre

Culture Clash: Aboriginal People's Experiences Seeking Pain Care and Healthcare Providers' Perspectives

Margot Latimer, RN, PhD, Dalhousie University, IWK Health Centre

Understanding the Relationship Between Culture and Infant Pain Behaviour: Are Caregiver Behaviours the Mechanism?

Monica O'Neill, MA, York University

SESSION 207

UNRAVELING THE THREAD OF NATURE VIA NURTURE - THE IMPACT OF SOCIAL RELATIONSHIPS AND CONTEXT ON GENE EXPRESSION AND PAIN RESPONSE

Chair: **Ian Weaver**, PhD, Dalhousie University

Speakers: **Ian Weaver**, PhD, Dalhousie University

Marsha Campbell-Yeo, PhD, NNP-BC, RN, Dalhousie University

Loren J. Martin, PhD, University of Toronto

Workshop Objective:

We propose a symposium to discuss the important influence of social relationships and environmental context on pain response and gene expression. In addition to our findings, we will discuss issues related to the feasibility and conduct of animal as well as human studies examining these questions. Our goal is to engage clinicians with pain neuroscientists to address how basic and clinical scientists can best address these complex questions.

Learning Objectives:

1. Upon completion of this session, attendees will be able to discuss the effect of early mother-offspring interactions controlled using psychological and physical stress modelling on later genome integrity and gene expression programs that underlie normal cognitive and emotional development.
2. Upon completion of this session, attendees will be able to understand the potential role of maternal contact provided during early pain on epigenetic marks on specific neural networks mediating pain and stress responses.
3. Upon completion of this session, attendees will be able to discuss the influence of social and environmental stressors on stress and pain response.

Effects of Early Adversity on Maternal Care and Epigenetic Mechanisms Mediating Long-term Development: A New Role for the Chromatin-remodelling Protein ATRX

Ian Weaver, PhD, Dalhousie University

Epigenetic Impact of Maternal Skin-to-Skin Care during Early Pain Exposure in Healthy and Preterm Infants

Marsha Campbell-Yeo, PhD, NNP-BC, RN, Dalhousie University

The Modulation of Pain by Social and Environmental Stress

Loren J. Martin, PhD, University of Toronto

3:00 - 4:00pm Coffee Break / Posters / Trade Show

4:00 - 5:30pm **SESSION 208**

EXPLORING NOVEL MECHANISMS OF MUSCULOSKELETAL PAIN

Chair: **Jason J. McDougall**, PhD, Dalhousie University

Speakers: **Jason J. McDougall**, PhD, Dalhousie University

Brian Cairns, PhD, University of British Columbia, Aalborg University

Laura Stone, PhD, McGill University

Workshop Objective:

The aim of this symposium is to highlight emerging neurophysiological mechanisms responsible for the generation and maintenance of musculoskeletal pain using preclinical animal models of disease.

Learning Objectives:

1. Hear about the emerging evidence indicating that osteoarthritis pain has a neuropathic component.
2. Learn about the cross communication between glial cells and sensory nerves in the maintenance of chronic muscle pain.
3. Have an appreciation of the relationship between intervertebral disc degeneration and the development of low back pain.

Neurophysiological Evidence of A Neuropathic Component Of Osteoarthritis Pain

Jason J. McDougall, PhD, Dalhousie University

The Role of Satellite Glial Cells in the Chronicity of Muscle Pain

Brian Cairns, PhD, University of British Columbia, Aalborg University

The Relationship between Progressive Disc Degeneration, Pathological Disc Innervation And Behavioural Changes In A Rodent Model Of Low Back Pain

Laura Stone, PhD, McGill University

SESSION 209

PAINLESS SOCIAL MEDIA FOR SCIENTISTS AND CLINICIANS: LESSONS LEARNED

Chair: **Michael McGillion**, McMaster University

Speakers: **Lynn Cooper**, Canadian Pain Coalition

Rob McEwan, Argyle Communications

Michael McGillion, McMaster University

Workshop Objective:

Social media is becoming a core strategy to communicate health information and disseminate latest research findings. Yet, there remains ambiguity about social media in terms of how to use it effectively, despite continued pressure for researchers and clinicians to have a strong social media presence in the public domain. This symposium will be of interest to researchers and clinicians who wish to understand more about effective social media engagement.

Learning Objectives:

1. Understand how social media platforms can be used to disseminate health research to patients and healthcare professionals.
2. Understand how social media platforms can be used to engage and converse with patients, healthcare professionals, and members of the public.
3. Understand how social media can be used to drive end-user traffic to research and health information websites.

Social Media for Promoting Knowledge Exchange among Interested Members of the Public

Lynn Cooper, Canadian Pain Coalition

Health-focused Social Media, "Dos" and "Don'ts" for Content Creation and User Engagement

Rob McEwan, Argyle Communications

Performance Metrics of a Web-based Cardiac Pain Knowledge Dissemination Platform Fueled by Social Media

Michael McGillion, McMaster University

SESSION 210**INNOVATIVE CANCER PAIN METHODS**

Chair: **Jordi Perez**, MD, PhD, Alan Edwards Pain Management Unit, McGill University Health Centre

Speakers: **Paul Hrkal**, ND, Pain and Wellness Centre

Catherine Smyth, MD, PhD, FRCPC, The Ottawa Hospital, University of Ottawa

Jordi Perez, MD, PhD, Alan Edwards Pain Management Unit, McGill University Health Centre

Workshop Objective:

During this symposium three pioneering different strategies to achieve adequate pain control in cancer patients will be presented.

Learning Objectives:

1. Measure the effectiveness of specialized palliative care approaches.
Development and testing potential models for the provision of palliative care. Validating existing measures of palliative care effectiveness and creating new ones. A particular focus on the early involvement of palliative care services in the outpatient setting.
2. Complex cancer pain management using therapeutic options above the WHO Analgesic Ladder (e.g. epidural and spinal catheters for refractory cancer pain)
Indications and contraindications of spinal drug delivery in cancer pain cases Ambulatory management of spinal drug delivery systems in advanced cancer pain patients.
3. Interdisciplinary approaches to cancer pain management. Pros and cons
Description of an interdisciplinary model of cancer pain clinic Outcomes in terms of pain relief and other symptoms improvement.

An Introduction to Integrative and Natural Complementary Cancer Care with A Special Focus on Cancer Related Pain

Paul Hrkal, ND, Pain and Wellness Centre

Intrathecal Drug Delivery in Cancer Pain at End-Of-Life: Experience of The Ottawa Hospital Complex Cancer Pain Program

Catherine Smyth, MD, PhD, FRCPC, The Ottawa Hospital, University of Ottawa

The Interdisciplinary Approach to Assess and Manage Cancer Pain

Jordi Perez, MD, PhD, Alan Edwards Pain Management Unit, McGill University Health Centre

7:00 - 11:00pm Awards and Gala Dinner

DAY 3 - Saturday, May 23

7:00 - 8:45am Breakfast

8:45 - 9:00am Opening Remarks

9:00 - 9:45am **PLENARY SESSION**



PAIN CATASTROPHIZING: TIME FOR V2.0?

Speaker: **Jennifer A. Haythornthwaite**, Ph.D, Director, The Center for Mind-Body Research, Johns Hopkins University School of Medicine

For more than two decades pain catastrophizing has been shown to have generally negative effects on various important clinical outcomes in a wide array of models ranging from laboratory pain processing in healthy volunteers to long-term pain in patients following surgery. The neurobiology of pain catastrophizing includes both peripheral and central processes that in part account for the increased pain sensitivity frequently observed in both healthy volunteers and clinical samples, while laboratory data underscore the role that situational pain catastrophizing plays in increasing pain sensitivity. Clinical data suggest associations with outcomes that include pain-related impairment, analgesic use, and persistence of pain over months and years. This talk will present some of the most recent research on pain catastrophizing with a discussion of what is missing, highlighting factors to be addressed in future research. Some key measurement issues include the utility of dispositional vs. situational measures and the value of manipulating the referent when measuring pain catastrophizing. The magnitude of the effect of catastrophizing on multiple clinical outcomes is generally modest and future work needs to continue to identify factors that mitigate the negative effects of pain catastrophizing. Psychological interventions can effectively reduce catastrophizing and we need to test which clinical approaches maximize clinical outcomes in targeted high risk subgroups and investigate the potential benefits of risk reduction interventions within the spectrum of pain management approaches that include pharmacological and surgical treatments. The next generation of pain catastrophizing studies provides exciting opportunities to extend our knowledge of how, when, and in whom we can improve clinical outcomes in groups at risk for persistent pain and pain-related disability.

Learning Objectives:

1. Identify two pathophysiological mechanisms linking pain catastrophizing to clinical outcomes.
2. Compare the strengths of different measures of pain catastrophizing.
3. Discuss a surgical model in which reducing pain catastrophizing pre- or post-

operatively might improve clinical outcomes.

9:45 - 10:30am DISTINGUISHED CAREER AWARD LECTURE



WHAT WE HAVE LEARNED AND WHAT WE STILL DON'T KNOW ABOUT VISCERAL PAIN

Speaker: **Fernando Cervero**, MB ChB, PhD, DSc, Anaesthesia Research Unit, McGill University

Visceral pain is the most common form of pain produced by disease and one of the most frequent reasons for patients to seek medical care. For a long time, visceral pain was simply regarded as a variety of somatic pain, produced by similar mechanism and treated like any other form of pain. Yet in the past decades we have made considerable progress in our understanding of visceral pain mechanisms, and have realized that it is mediated by different and sometimes unique mechanisms both in the periphery and at the CNS level. We have unraveled the properties of visceral nociceptors and other sensory receptors involved in pain signaling, the pathways and neurons that transmit these signals throughout the brain and the regions of the brain involved in visceral pain perception. Yet, much remains to be discovered, particularly the pathogenesis of those forms of internal pain without apparent peripheral damage or the relationship between stress, the emotional state of the individual and the perception of visceral pain.

10:30 - 11:00am Coffee Break

11:00am - 12:30pm SESSION 301

ONE YEAR LATER: AN UPDATE ON THE ECHO ONTARIO CHRONIC PAIN PROJECT

Chair: **Ruth Dubin**, MD, PhD, FCFP; CFPC Chronic Pain Committee

Speakers: **Joanna G. Katzman**, MD, MSPH, University of New Mexico School of Medicine, UNM Pain Center, Project ECHO Pain

Mandy McGlynn, MSc, BSc(PT), BA, Toronto Rehab Hospital, University Health Network

Andrea Furlan, MD, PhD, University of Toronto, Faculty of Medicine

Workshop Objective:

The ECHO model is being adopted throughout North America and worldwide for many complex chronic medical conditions. ECHO Ontario is the first replication in Canada, with a mandate restricted to the province of Ontario. This symposium aims to share the model with Canadian Pain Society attendees who may wish to adapt the model to their jurisdiction.

Learning Objectives:

1. To recognize the ECHO principles that lead to wider dissemination of specialist knowledge to primary care.
2. To understand how case-based, 'learning-by-doing' and creation of virtual communities of practice demonopolizes knowledge and improves patient outcomes.
3. To evaluate potential applications of an ECHO model in other regions for many different complex chronic conditions.

Expanding Healthcare Access through Education: Project ECHO

Joanna G. Katzman, MD, MSPH, University of New Mexico School of Medicine, UNM Pain Center, Project ECHO Pain

Addressing the Barriers to Chronic Pain Management: Building Capacity and Creating Virtual Interprofessional Teams through Telemedicine

Mandy McGlynn, MSc, BSc(PT), BA, Toronto Rehab Hospital, University Health Network

Replication of a Successful Model: The Experience and Challenges of the ECHO Ontario

Andrea Furlan, MD, PhD, University of Toronto, Faculty of Medicine

SESSION 302

NETWORK META-ANALYSIS: A PAIN(LESS) PRIMER

Chair: **Jason Busse**, DC, PhD, McMaster University

Speakers: **Sohail Mulla**, McMaster University

Sun Makosso Kallyth, PhD, McMaster University

Jason Busse, DC, PhD, McMaster University

Workshop Objective:

Network meta-analysis is an increasingly popular approach to evidence synthesis that allows researchers to estimate the relative benefits and harms of therapies that have not been tested directly against each other in clinical trials. This symposium aims to introduce the audience to network meta-analysis, specifically in context of pain prevention and management research.

Learning Objectives:

1. To present an overview of the evolution of evidence synthesis methods in clinical research, with an emphasis on optimizing evidence-based management of patients with pain.
2. To introduce the audience to network meta-analyses, and alert them to methodological challenges for pain research.
3. To illustrate a network meta-analysis of treatment for fibromyalgia.

The Evolution of Evidence Synthesis Methods in Clinical Research

Sohail Mulla, McMaster University

How to Conduct, Report, and Use Network Meta-analyses for Pain Research

Sun Makosso Kallyth, PhD, McMaster University

Management of Fibromyalgia: A Network Meta-analysis of Randomized Controlled Trials

Jason Busse, DC, PhD, McMaster University

SESSION 303

WORRY, FEAR, AND PHOBIA: A CROSS-CONTEXTUAL APPROACH TO CHILD FEAR AND ANTICIPATORY DISTRESS TO PAINFUL MEDICAL PROCEDURES

Chair: **Nicole Racine**, MA, York University

Speakers: **Rebecca Pillai Riddell**, PhD, CPsych, York University

C. Meghan McMurty, PhD, CPsych, University of Guelph

Jill Chorney, PhD, CPsych, Dalhousie University

Workshop Objective:

After a brief orientation to the field of fear and anxiety in relation to pain in childhood by the chair, presenters will review the current state of research in this area and synthesize the key factors that are related to anticipatory distress, the role of caregiver variables, and key directions for evidence-based treatment and intervention. The symposium will conclude with a participatory audience question and answer period.

Learning Objectives:

1. Update audience knowledge on the child, caregiver, and contextual factors that predict anticipatory distress to painful medical procedures in children from infancy to adolescence.
2. Present experimental evidence using diverse methodologies to explore fear and anxiety to painful medical procedures in children.
3. Stimulate discussion regarding the equivocal role parent factors have been shown to play in anxiety related to pediatric medical procedures.

The Anticipatory Medical Procedure Distress Model: Understanding Developmental Pathways to Pediatric Fear Prior to Painful Procedures

Rebecca Pillai Riddell, PhD, CPsych, York University

Nasty needles? Children's Perceptions and Experiences of Needle Procedures

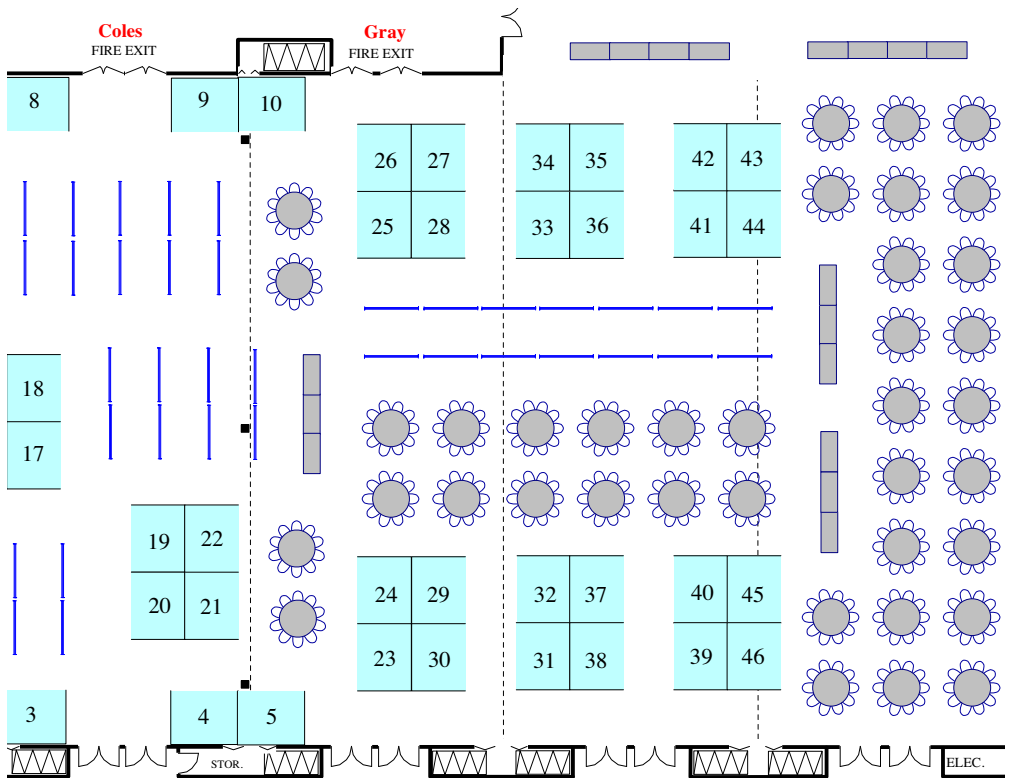
C. Meghan McMurty, PhD, CPsych, University of Guelph

Predictors of Children's Preoperative Anxiety

Jill Chorney, PhD, CPsych, Dalhousie University

12:00-2:00pm Pain Research & Management Editorial Board Meeting

Exhibit Area



Booth	Organization	Booth	Organization	Booth	Organization
3	LifeForm Healing Research	21	Abcann Medicinals Inc	31	ethimedix
4	mdBriefCase Group Inc.	22	The Chronic Pain Association of Canada	32	CanniMed Ltd
5		23	DTI - Diros Technology Inc.	33	BTNX
8		24	Canadian Pain Coalition & Canadian Injured Worker's Alliance	34	
9	Michael G. DeGroot National Pain Centre & Institute for Pain Research and Care, McMaster University	25	Aspen Medical	35	
10	GE Healthcare	26	College of Family Physicians of Canada	36	Paladin Labs
17	Tilray	27		37	Bayliss Medical
18	Mettrum Health	28	St Jude Medical	38	Merck
19	Noldus Information Technology	29	Canadian Acadamey of Pain Management	39	Tweed Inc.
20	American Screening	30	Medisca	40	
				41	medreleaf
				42	
				43	
				44	Purdue
				45	PediaPharm
				46	MVC Technologies

BOOTH 3

LifeForm Healing Research

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LifeForm Healing Research specialize in the development of biologic devices that support improved outcome of regenerative cellular therapies. Our devices are designed to produce the purest concentration of regenerative cells and growth factors from a small sample of the blood or bone marrow aspirate.

BOOTH 9

Michael G. DeGroot National Pain Centre & Institute for Pain Research and Care, McMaster University

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Our missions: Improve the management of pain through dissemination of best practice information; use persistent post-surgical pain to explore chronic pain, and provide unique learning opportunities.

BOOTH 17

Tilray

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At Tilray, we're dedicated to cultivating and delivering the benefits of medical cannabis safely and reliably. Our team of PhDs, botanists and master horticulturists are industry leaders in medical cannabis research and related agricultural sciences.

BOOTH 4

mdBriefCase Group Inc.

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AdvancingIn.com is part of mdBriefCase Group Inc., the leading provider of free accredited online continuing medical education for Canadian healthcare professionals.

BOOTH 10

GE Healthcare

Contact: Anu Kapoor

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GE Healthcare now offers products to aid in pain management. This includes Point of Care Ultrasound options, the Brivo C-arm and Anaesthesia Delivery. Advancing healthcare together.

BOOTH 18

Mettrum Health

Contact: Grant Koehler

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Mettrum Ltd. is a licensed producer and vendor of medical cannabis. Mettrum is committed to helping physicians and their patients responsibly consider medical cannabis as a viable treatment option.

BOOTH 19

Noldus Information Technology

Contact: Humphrey, Yvonne Pauline Spiess

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Noldus develops innovative tools for behavioral research - from facial expression recognition software for clinical encounters to automated optogenetic set-ups in a laboratory setting.

BOOTH 21

Abcann Medicinals Inc.

Contact: Amanda Mohammed

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Approved Licensed Producer under Marihuana for Medical Purposes Regulations (MMPR). Our focus is on growing organic, standardized and third-party verified product for medical cannabis patients.

BOOTH 23

DTI - Diros Technology Inc.

Contact: Peter Darnos

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Manufacturer of the world renowned OWL Radiofrequency (RF) Products. Diros' OWL RF Generators, Probes, Cannulae, and GD-pads have set the standard, offering Radiofrequency Pain Management & Neurosurgical Solutions.

BOOTH 20

American Screening

Contact: Deborah Lasyone

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A manufacturer of ONESCREEN and Reveal Multi-Panel Drug Tests, American Screening Corporation is the pioneer in the drug testing market. ASC is your first choice for quality CLIA Waived drug tests and excellent customer service. ASC is an ISO 13485 certified distributor for a wide range of clinical rapid tests and point of care devices.

BOOTH 22

The Chronic Pain Association of Canada

Contact: Barry Ulmer

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The Chronic Pain Association of Canada is a grass roots not-for-profit Society dedicated to improving how people in pain are treated.

BOOTH 24

Canadian Pain Coalition & Canadian Injured Worker's Alliance

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CPC is a partnership of pain consumer groups, health professionals and scientists with a goal of promoting sustained improvement in treating and managing pain for Canadians.

CIWA: THE CANADIAN INJURED WORKERS ALLIANCE

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CIWA is a national network of injured workers groups that supports and strengthens the work of local, provincial, and territorial injured workers organizations.

BOOTH 28

St Jude Medical

Contact: Mark Wojtowicz

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The Chronic Pain Therapies division of St Jude Medical is focused on two product categories: Neuromodulation and Radio Frequency Ablation for Pain. Our Canada distribution center is based in Toronto, Ontario.

BOOTH 25

Aspen Medical

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Aspen Medical Products is a leader in the development of innovative spinal bracing for post-trauma stabilization, pre-and-post surgical stabilization, pain management and long-term patient care. Aspen Medical Products offers multiple orthotic options that provide unsurpassed motion restriction, superior comfort and an economic advantage, encouraging better patient compliance.

BOOTH 26

College of Family Physicians of Canada

Contact: Maureen Desmarais

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The College of Family Physicians of Canada (CFPC) represents more than 34,000 members across the country. It is the professional organization responsible for establishing standards for the training and certification of family physicians. The College provides quality services, supports family medicine teaching and research, and advocates on behalf of family physicians and the specialty of family medicine.

BOOTH 29

Canadian Acadamey of Pain Management

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CAPM is dedicated to promoting excellence of care for pain sufferers, through comprehensive professional development for professionals and now offers Credentialing!

BOOTH 30

Medisca

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BOOTH 32

CanniMed Ltd.

Contact: Caitlin Gill

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F: 306-975-0440

E: cmg@prairieplant.com

CanniMed Ltd. was established in 2013 to provide Canadian patients with access to a standardized and trusted supply of pharmaceutical-grade cannabis.

BOOTH 36

Paladin Labs

Contact: Tanya Marcanio

T: 514.340.1112 x 5450

E: tmarcanio@paladinlabs.com

Paladin Labs is a specialty pharmaceutical company and member of Rx&D, focused on acquiring or in-licensing innovative pharmaceutical products for the Canadian & select international markets.

BOOTH 31

ethimedix

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E: lgs@ethimedix.com

Ethimedix SA is a Swiss based company providing a new state of the art medical device, the SmartBottle, for "pain relief at the touch of a finger".

BOOTH 33

BTNX

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T: 416.319.8387

F: 905.944.0406

E: hsunderani@btnx.com

BTNX Inc. specializes in the manufacture and distribution of point-of-care in vitro diagnostics. Our Rapid Response™ tests provide healthcare practitioners with accurate results they can trust.

BOOTH 37

Bayliss Medical

Contact: Marie-Michèle Lessard

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F: 514.488.7209

E: mlessard@baylissmedical.com

Baylis Medical is Halyard Health's Canadian distributor for the Cooled-RF Pain Management System, a proprietary radiofrequency technology platform that allows for creation of larger, spherical lesions.

BOOTH 38

Merck

Contact: Caroline Rodier

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Today's Merck is a global healthcare leader working to help the world be well. For more information about our operations in Canada, visit www.merck.ca.

BOOTH 41

medreleaf

Contact: Alex Revich

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MedReleaf is a fully licensed Canadian medical cannabis producer and distributor. We operate from a state-of-the-art, 55,000 sq. ft. facility in Markham, Ontario, where we produce exclusive medical grade cannabis varieties. Through tireless clinical research, and in concert with the Canadian medical community, we are dedicated to leading the way in the discovery of, and education on, its medical and therapeutic benefits. We are setting The Medical Grade Standard™.

BOOTH 45

PediaPharm

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F: +1.514.762.2336

E: Ashok.bhaseen@pedia-pharm.com

Pediapharm is the only Canadian specialty pharmaceutical company dedicated to serving the needs of the pediatric community. Its mission is to bring to the Canadian market the latest innovative pediatric products with the objective to improve the health and the well-being of children in Canada.

BOOTH 39

Tweed Inc.

Contact: Amanda Daley

T: 613.485.0123

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Tweed is a Canadian company established to supply high-quality prescription marijuana to treat a wide variety of symptoms.

BOOTH 44

Purdue

Contact: Kathryn Raymond

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F: 905.420.1679

E: michelle.girard@purdue.ca

Purdue Pharma is dedicated to developing and providing innovative medicines for patients and health care professionals and to supporting quality education for the safe use of its products. Purdue Pharma se consacre au développement et à la mise en marché de traitements innovants pour les patients et les professionnels de la santé ainsi qu'au soutien d'une formation de qualité pour l'utilisation sécuritaire de ses produits.

BOOTH 46

MVC Technologies

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MVC Technologies Inc. is a Canadian IT solutions company, with focus on innovative software development for the Healthcare Industry.



Innovation In Pain Care



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2016

**37TH ANNUAL
SCIENTIFIC MEETING
CANADIAN PAIN SOCIETY**

TUESDAY MAY 24 -
FRIDAY MAY 27 - 2016

VANCOUVER, BC



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