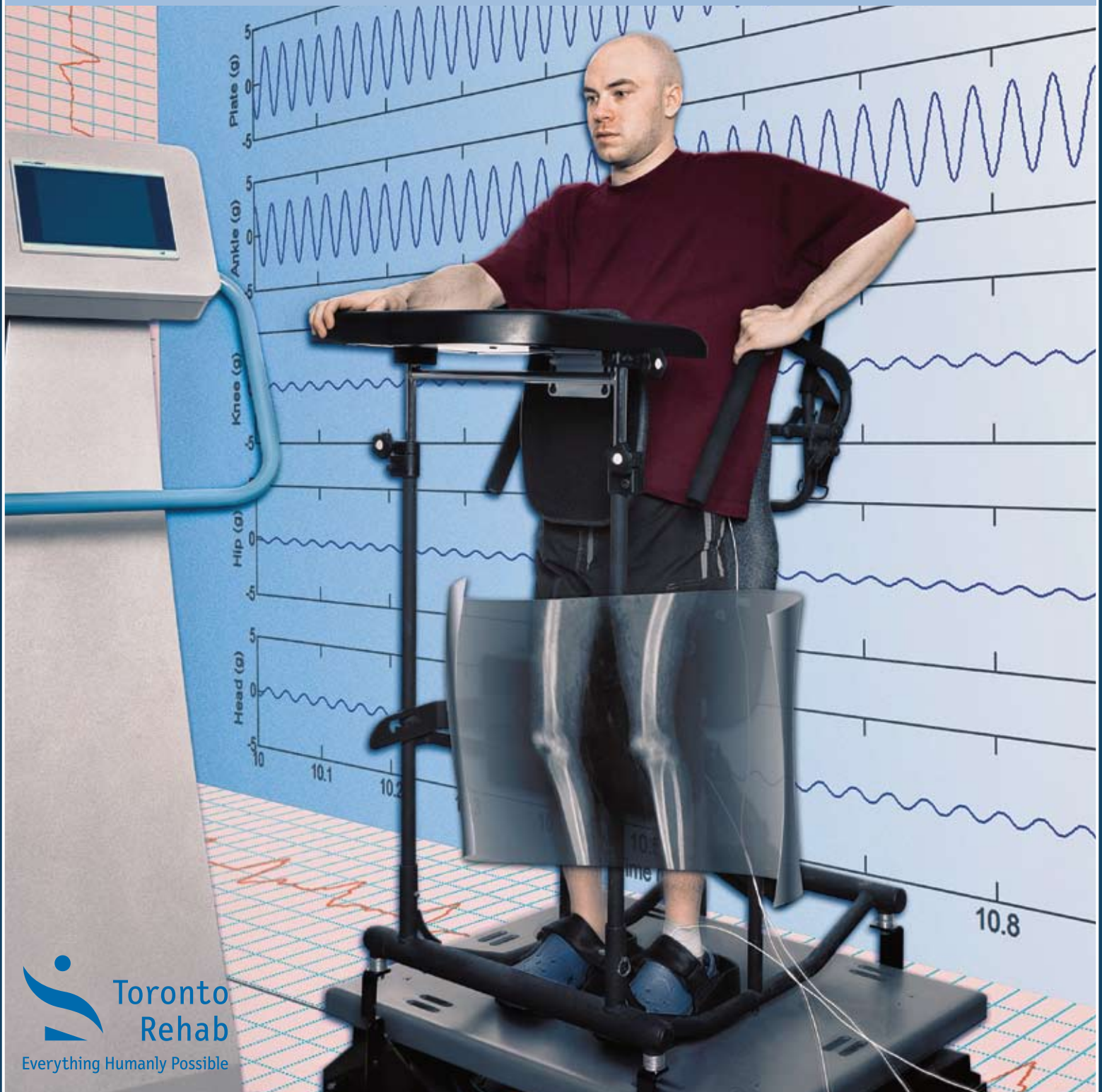


4th National Spinal Cord Injury Conference

Linking Research to Practice

www.sciconference.ca

October 28, 2010 – Pre-course
October 29 – 30, 2010 – Main Conference
Fallsview Casino Resort, Niagara Falls



Toronto Rehab is applying to have this event approved as an accredited group learning activity as defined by The Royal College of Physicians and Surgeons of Canada's Maintenance of Certification Program.

 Register at www.sciconference.ca

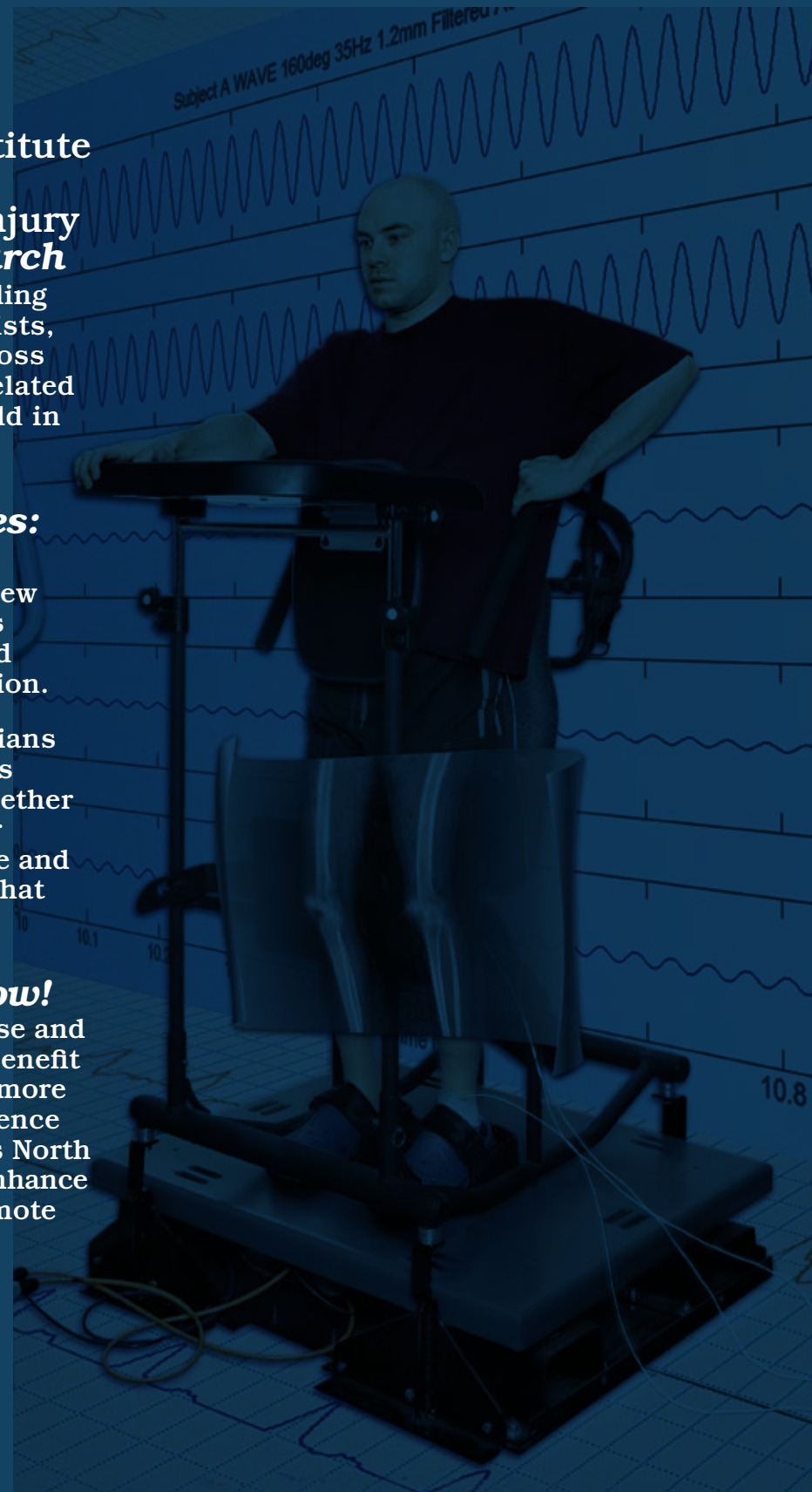
Toronto Rehabilitation Institute is pleased to announce its 4th National Spinal Cord Injury Conference: **Linking Research to Practice**. Join us at this leading national forum for research scientists, physicians and clinicians from across North America to discuss issues related to spinal cord injury (SCI) to be held in Ontario's beautiful wine country.

Overall learning objectives:

- At the end of the conference, participants will have reviewed new research, clinical breakthroughs and innovative approaches to, and methodologies in, SCI rehabilitation.
- Scientists, physicians and clinicians working in rehabilitation settings and the community will come together with students, patients and their caregivers to exchange knowledge and participate in a dialogue about what it means to live with SCI.

Don't miss out register now!

The conference includes a pre-course and numerous keynote presentations. Benefit from 10 interactive workshops and more than 80 poster displays. The conference will showcase expertise from across North America with an agenda which will enhance the networking experience and promote exchange of ideas among attendees.



Pre-course Agenda

Thursday, October 28, 2010

12:00 – 13:00 Registration – Grand Hall Foyer

13:00 – 13:15 Opening Remarks

Cathy Craven, BA, MD, FRCP(C), MSc
Assistant Professor, Departments of Medicine and HPME,
University of Toronto; Toronto Rehabilitation Institute

13:15 – 14:05 **Keynote Presentation**

Can Pressure Ulcers Be Prevented After Spinal Cord Injury or Has This Battle Been Lost?
Vivian Mushahwar, PhD
Associate Professor and AHFMR Senior Scholar, Department of Cell Biology and Centre for Neuroscience, University of Alberta

This presentation will provide an update on our understanding of the etiology of pressure ulcers and a description of a new clinically viable method for the prophylactic of pressure ulcers in people with reduced mobility and sensation.

Learning Objectives:

1. Discuss the factors leading to the formation of different classes of pressure ulcers
2. Describe the state of deep tissue under various loading conditions
3. Review the effects of electrical stimulation on muscles trapped between bony prominences and support surfaces
4. Discuss the use of intermittent electrical stimulation for preventing the formation of pressure ulcers

14:05 – 14:20 Evaluation of Keynote Presentation and Breakout to Concurrent Workshops

14:20 – 15:50 *** Concurrent Workshops**
Workshops 1 to 4 will run concurrently from 14:20 – 15:50 and again from 16:05 – 17:35.

*** Workshop 1**
Finding a Treatment for Spinal Cord Injury: Why We Should Still Listen to Basic Science

Serge Rossignol, MD, PhD
Professor, Faculty of Medicine, University of Montreal

Karim Fouad, PhD Neuroscience
Professor and AHFMR Senior Scholar, Faculty of Rehabilitation Medicine, University of Alberta

This workshop will relate recent findings in animal experiments to patients with SCI. The session will focus on showing that the injured spinal cord is still not sufficiently explored to allow the development of effective treatments, and that animal models are clinically relevant and continually advance the field in the development of meaningful treatments.

Learning Objectives:

1. Examine the findings from clinically relevant animal studies
2. Review how basic research remains crucial to finding a meaningful treatment for SCI
3. Discover how plasticity in the spinal pattern generator for locomotion plays a major role in rehabilitation of motor function after SCI

*** Workshop 2**
Stimulating Neuroplasticity: Using Afferent Input to Promote Function After Spinal Cord Injury

Edelle C. Field-Fote, PhD, PT
Professor, University of Miami Miller School of Medicine

Evidence suggests that spinal cord and brain mechanisms underlying the control of movement adapt in response to afferent inputs such as stimulation and vibration. This beneficial neural adaptation, or adaptive neuroplasticity, is supportive of function and may counter the maladaptive plasticity that is associated with pathology of the nervous system. Using what is known about neural responses to afferent input, treatment strategies can be structured to incorporate stimulation and vibration into training programs to improve motor function.

Learning Objectives:

1. Describe the mechanisms underlying neuroplasticity and the maladaptive neuroplastic changes that occur in the brain and spinal cord after SCI
2. Summarize how stimulation and vibration modulate reflex activity and enhance walking function
3. Discuss how afferent input alters brain mechanisms to promote to adaptive neuroplasticity for improved hand function

*** Workshop 3**
The Neurogenic Bladder: The Role of Anticholinergics

Magdy Hassouna, MD, PhD
Associate Professor of Surgery (Urology), University of Toronto

This presentation will discuss the role of different groups of anticholinergic treatments for detrusor overactivity.

Learning Objectives:

1. Select the most appropriate anticholinergic to treat detrusor overactivity following SCI
2. Anticipate the adverse effects of anticholinergic drugs
3. Manage adverse effects of anticholinergic therapy

The Use of Botulinum Toxin in the Management of Neurogenic Bladder Dysfunction

Sender Herschorn, MD, FRCS
Professor and Chair, Division of Urology, University of Toronto; Sunnybrook Health Sciences Centre

Neurogenic bladder dysfunction occurs secondary to a deficiency of nerve supply. The specific deficiency frequently results in failure to store urine, failure to empty, and occasionally both. The goals of management are to preserve

the upper urinary tract (kidneys) and create an acceptable quality of life with the establishment of low pressure storage and emptying system. Botulinum toxin is a new option for improving the storage characteristics of the bladder when other pharmacologic options have been unsuccessful.

Learning Objectives:

1. Understand the current therapeutic options for neurogenic detrusor overactivity and urinary incontinence
2. Learn the status of Botulinum toxin, a new option for neurogenic detrusor overactivity

* Workshop 4

The Development and Application of Evidence-Based Physical Activity Guidelines for the Spinal Cord Injury Population

Kathleen Martin Ginis, PhD (Kinesiology)

Professor, Department of Kinesiology, McMaster University

Kelly Arbour-Nicitopolous, PhD (Human Biodynamics)

Post-Doctoral Fellow, Faculty of Physical Education and Health, University of Toronto

Audrey Hicks, PhD (Physiology)

Professor, Department of Kinesiology, McMaster University

Amy Latimer, PhD (Human Biodynamics)

Assistant Professor, School of Kinesiology and Health Studies, Queen's University

The purpose of this workshop is to introduce newly developed evidence-based physical activity guidelines for people with

SCI, provide stakeholders (e.g., practitioners, consumers) the opportunity to evaluate the guidelines, and describe innovative strategies for promoting active living in the SCI population.

Learning Objectives:

1. Outline newly developed SCI-specific physical activity guidelines
2. Review the process used to develop the SCI-specific physical activity guidelines and their implications for clinical practice

15:50 – 16:05 Workshop Evaluation and Breakout to Second Set of Concurrent Workshops

16:05 – 17:35 Concurrent Workshops

Workshops 1 – 4 to again run concurrently from 16:05 – 17:35. See descriptions above.

17:35 – 17:55 Workshop and Pre-Course Evaluation

17:55 – 18:00 Closing Remarks

Milos R. Popovic, PhD, PEng

Institute of Biomaterials and Biomedical Engineering, University of Toronto; Toronto Rehabilitation Institute

18:30 – 20:30 Pre-registration for Main Conference at the Fallsview Casino Resort – Grand Hall Foyer

18:30 – 20:30 Special Registration and Networking Welcome Dinner for Consumers

Fallsview Casino Resort

Sponsored by Ontario Neurotrauma Foundation (ONF)

The results presented will support the concept that models of rehabilitation in rodents must deal with a ceiling effect due to in-cage retraining and that wheelchair restriction can have dramatic negative effects on functional recovery.

Learning Objectives:

1. Explore how different kinds of activity (or inactivity) influence the course of functional recovery in animal models of SCI
2. Discuss the relationships between the descending locomotor command circuitry, the central pattern generator for locomotion and the different kinds and patterns of afferent information coming into the spinal cord from the hind limbs
3. Examine how the capacity of the spinal cord circuitry might change over time post-SCI

09:40 – 09:50 Evaluation of Keynote Presentation and Break

09:50 – 10:30 ► Keynote Presentation 2 Muscle – Bone – Fat Interactions

Clifford J. Rosen, MD

Professor of Medicine, Tufts University School of Medicine;
Director of Clinical and Translational Research,
Maine Medical Center

Three major tissues control locomotion and energy metabolism in mammalian homeostasis. The muscle bone interaction has been studied in detail but the interaction of these three tissues, particularly relative to fuel utilization, has recently come to light. Two unifying factors link these three organs: insulin and their common mesenchymal stem cell origin.

Learning Objectives:

1. Review the origin of muscle, fat and bone cells
2. Determine how insulin and its regulation affect function of each tissue
3. Identify possible future interventions to prevent bone and muscle loss

10:30 – 10:40 Evaluation of Keynote Presentation and Break

10:40 – 11:55 Significant Spinal Cord Injury Snippets

Each speaker has 10 minutes to present and 5 minutes to discuss with participants.

* Presentation 1

Evaluating Neuronal Plasticity in the Central Nervous System Following Functional Electrical Stimulation Using a Spinal Cord Injury Rat Contusion Model

Eric Beaumont, PhD (Neurophysiology)

Academic Researcher, Department of Surgery,
University of Montreal

This presentation will provide an update on the effectiveness of using functional electrical stimulation during the acute phase post-SCI, to preserve the neuronal afferent drive across the lesion site. Also, this therapy is beneficial in increasing the neuronal response in the spinal cord below the lesion site when stimulating paralyzed muscles.

Learning Objectives:

1. Demonstrate how functional electrical stimulation during the acute phase post-SCI is beneficial
2. Demonstrate how functional electrical stimulation preserves the neuronal afferent drive between the paralyzed limbs and the somatosensory cortex
3. Examine the importance of translating the functional electrical stimulation training on patients during the acute phase post-SCI

* Presentation 2

Wheelchair Skills Training for People with Spinal Cord Injury — What, Who, When, Where, How and Why?

R. Lee Kirby, MD, FRCPC

Division of Physical Medicine and Rehabilitation, Department of Occupational Therapy, Dalhousie University

Cher Smith, BSc OT, MSc

School of Occupational Therapy, Queen Elizabeth II Health Sciences Centre

Many people with spinal cord injuries use wheelchairs to enhance mobility. There is accumulating evidence about the safety and superior effectiveness of using a formal approach to wheelchair skills training, as one element in the wheelchair-provision process. This presentation will review the what, who, when, where, how and why of such training and explain how clinicians can refine training in their own settings.

Learning Objectives:

1. Describe the nature of training, the most receptive learners, the appropriate stages of rehabilitation for training, the setting, how training is performed and the research evidence supporting such training
2. Refine wheelchair skills training in individual settings

* Presentation 3

Ethics and Professionalism in Rehabilitation

Jeff Blackmer, MD, MHSC, FRCPC

Executive Director, Office of Ethics, Professionalism and International Affairs, Canadian Medical Association

Ethical issues arise commonly in the day to day practice of rehabilitation medicine, from demands for unproven therapies to difficult decisions about a patient's quality of life. Clinicians are faced with more and more therapeutic options and patients, increasingly educated and aware, sometimes make claims to resources that may not be appropriate. During this session, the topic of stem cell therapy for spinal cord injuries will be discussed, with a short review of the science behind the treatment as well as a consideration of the sometimes complex ethical issues underlying its application.

Learning Objectives:

1. Review the science of stem cell treatment and the ethical issues surrounding stem cell therapies
2. Develop an approach to patients requesting stem cell therapy for SCI

* Presentation 4

Par-QoL: Guidelines for Evaluating the Impact of Secondary Health Conditions After Spinal Cord Injury on Participation and Quality of Life

Sander L. Hitzig, PhD

Post-Doctoral Fellow, Toronto Rehabilitation Institute

Although it is recognized that the quality of life (QoL) and participation of persons with SCI are negatively impacted by secondary health conditions, there is a lack of clarity on the theoretical underpinnings, clinical appropriateness and sensitivity of existing QoL and participation measures. This presentation will provide an update on the development of guidelines designed to address these issues.

Main Conference Agenda

Day 1 – Friday, October 29, 2010



07:30 – 08:30 Registration and Continental Breakfast – Grand Hall Foyer

08:30 – 08:50 Opening Ceremonies

Welcoming Remarks

Milos R. Popovic, PhD, PEng

Institute of Biomaterials and Biomedical Engineering,
University of Toronto; Toronto Rehabilitation Institute

08:50 – 09:40 ► Keynote Presentation 1

Loss and Gain of Function: Activity-Dependent Plasticity After Spinal Cord Injury

David S. K. Magnuson, PhD

Associate Professor, Department of Neurological Surgery,
Kentucky Spinal Cord Injury Research Center, University of Louisville

This presentation will describe how swimming, shallow water stepping and wheelchair immobilization in the first few weeks post-SCI can have dramatic effects on functional recovery.

Learning Objectives:

1. Provide an overview on conceptualizations of quality of life and the development of the Par-QoL guidelines
2. Review the key recommendations on which quality of life and participation measures to use when assessing secondary health conditions

*** Presentation 5****Two Scientists and a Mystery Talk****Milos Popovic, PhD, PEng**

Institute of Biomaterials and Biomedical Engineering, University of Toronto; Toronto Rehabilitation Institute

Cathy Craven, BA, MD, FRCP(C), MSc

Assistant Professor, Departments of Medicine and HPME, University of Toronto; Toronto Rehabilitation Institute

Co-chairs of the 4th National Spinal Cord Injury Conference Scientific Planning Committee**Learning Objectives:**

1. Present "hot off the press" data
2. Discuss the associated clinical conundrums and their implications

11:55 – 12:10 Difference Makers Presentation**Award Recipient: Charles H. Tator, CM, MD, PhD, FRCSC, FACS**

Professor of Neurosurgery, University of Toronto; Division of Neurosurgery, Toronto Western Hospital

12:10 – 13:15 Evaluation of Presentations, Networking Lunch and Exhibit Viewing**13:15 – 14:05 ► Keynote Presentation 3****All Limbs Lead to the Trunk: The Rationale and Methods in the Development of the Thoracic-Lumbar Control Scale****Daniel E. Graves, PhD, FACRM**

Director of Spinal Cord Injury Research, Director NeuroRecovery Center, The Institute for Rehabilitation and Research

The function of the trunk musculature has not received the attention given to the extremities over the years. The vital role the trunk plays in many aspects of life following SCI cannot be ignored.

Learning Objectives:

1. Describe the important contribution the trunk makes to quality of life, health and participation following SCI
2. Discuss the methods utilized to develop the trunk scale as well as the reliability and validity of the scale
3. Describe the qualitative aspects of recovery of trunk function and how these relate to changes in trunk scale scores

14:05 – 14:15 Evaluation of Keynote Presentation and Break**14:15 – 15:15 Concurrent Workshops**

Workshops 1 to 4 and 5A will run concurrently from 14:15 – 15:15. Workshops 1 to 4 will be repeated from 16:15 – 17:15. Workshop 5B will also be held at that time.

*** Workshop 1****Posture and Mobility Assessment, Benchmarks and Behavioural Outcomes in the SCI Rehabilitation****Molly Verrier, Dip P&OT, MHSc (Physical Therapy)**

Associate Professor, Department of Physical Therapy, University of Toronto; Toronto Rehabilitation Institute

Andresa Marinho, BSc PT, MSc, PhD candidate (Physical Therapy)

Rehabilitation Science, University of Toronto; Toronto Rehabilitation Institute

Heather Flett, BA, BSc PT, MSc (Physical Therapy)

Advanced Practice Leader, Toronto Rehabilitation Institute

Kristina Guy, BSc (HKin), BSc PT, MSc candidate (Physical Therapy)

Rehabilitation Science, University of Toronto; Toronto Rehabilitation Institute

This workshop will introduce a comprehensive approach to standardized assessment and behavioural outcome measurement for posture and mobility for people with traumatic and non-traumatic SCI.

Learning Objectives:

1. Review the rationale for standardized evaluation for posture and mobility and their implications for clinical practice
2. Identify methods for standardized assessments, and documentation of behavioural posture and mobility outcomes
3. Discuss the principles and timing for therapeutic interventions for posture and mobility across the recovery profile

*** Workshop 2****Preventing Back Injury in Caregivers — Understanding the Use of Patient Lift Devices****Geoff Fernie, PhD, PEng**

VP Research, Toronto Rehabilitation Institute; Professor, Department of Surgery, University of Toronto

What are the mechanisms of back injury? Is it okay to manually lift patients as long as caregivers use good body mechanics? Is it better to use a floor or overhead lift? The session will explore these questions by reviewing the latest research in nursing biomechanics and patient lift and sling design. It will also introduce some new tools that have been recently developed to help lift and move people more safely.

Learning Objectives:

1. Review how to reduce the risk of sustaining a back injury by learning which type of mechanical lift devices should be used
2. Describe the current methods researchers use to understand the risks of injury during patient lifting and handling tasks

*** Workshop 3****Illuminating the Black Box of Spinal Cord Injury Rehabilitation Interventions to Describe Services Delivered****Julie Gassaway, MS, RN**

Institute for Clinical Outcomes Research

This workshop will introduce the Practice-Based Evidence research methodology used in the SCI Rehab project. We will explore detailed data for 600 rehabilitation patients with traumatic SCI that included more than 115,000 hours of documented treatment by seven clinical disciplines.

Learning Objectives:

1. Describe how rehabilitation clinicians spend time treating patients with SCI
2. Identify patient and injury characteristics that predict time spent in therapy

*** Workshop 4****Assessing for Spinal Cord Injury Rehabilitation Programming Needs in Low Resource Settings****Colleen O'Connell, MD, FRCPC**

Stan Cassidy Centre for Rehabilitation

Joy Wee, MD, MSc, FRCPC

Associate Professor, Queen's University

In the 21st century, rehabilitation challenges for persons with SCI in low-resource settings remain large, whether in disaster situations or in daily life. Real life experiences in Nepal and post-earthquake Haiti will be incorporated in a review of current epidemiology and outcomes of SCI in the majority world, need for emergent and long term rehabilitation planning and the role of local and international health care providers.

Learning Objectives:

1. Review issues encountered by SCI rehabilitation programs in low-resource settings
2. Review important considerations to guide programming needs for the short, intermediate and long term

*** Workshop 5A****Planes, Trains and Automobiles: Travel After Spinal Cord Injury****Marcie Kern, PT, MS (Physical Therapy)**

Senior PT, TIRR Memorial Hermann

Eric Lantz, BSc OT

Senior Occupational Therapist, TIRR Memorial Hermann

Michael Gettleman, SLP

Master of Speech & Hearing Science and Master of Healthcare Administration, Senior Speech Pathologist, TIRR Memorial Hermann

Brenda Lantz, BSc, CTRS

TIRR Memorial Hermann

Travel after SCI can be an overwhelming endeavor and many may just stay at home. This workshop will review a significant

catalog of travel tips and information for people with disabilities and health care providers to empower people to travel again.

Learning Objectives:

1. Describe the education class developed for teaching patients how to prepare for travel by air, land or sea after discharge from hospital
2. Review Project Airport, a specialized outing to the airport to prepare patients for airline travel
3. Review information regarding barriers to travel, resources for travelers with mobility limitations, and tips for successful travel

*** Workshop 5B****Goal Attainment Scaling in the Spinal Cord Injury Pilot (SCI-Pilot) Program****Jeffrey Jutai, PhD (Psychology)**

Professor, Interdisciplinary School of Health Sciences, University of Ottawa

This presentation will describe the use of Goal Attainment Scaling (GAS) to evaluate a new program to support individuals with SCI to navigate the health care system.

Learning Objectives:

1. Describe the methodology for doing GAS
2. Discuss the role for GAS in program evaluation in regard to other methods for outcome measurement
3. Discuss challenges for implementing GAS within a program like the SCI-Pilot

15:15 – 15:25 Evaluation of Workshops and Break**15:25 – 16:15 Exhibit and Poster Viewing: Odd Numbered Posters****16:15 – 17:15 Concurrent Workshops**

Workshops 1 to 4 and 5B will run concurrently from 16:15 – 17:15. See descriptions above.

17:15 – 17:25 Evaluation of Workshops**17:25 – 18:15 Top Six Articles You Need to Read****Moderator: Colleen McGillivray, BSc, MD, FRCPC**

Assistant Professor, Department of Medicine, University of Toronto; Toronto Rehabilitation Institute

Panel:**Jeff Blackmer, MD, MHSC, FRCPC**

Executive Director, Office of Ethics, Professionalism and International Affairs, Canadian Medical Association

Cathy Craven, BA, MD, FRCP(C), MSc

Assistant Professor, Departments of Medicine and HPME, University of Toronto; Toronto Rehabilitation Institute

Karen Ethans, MD, FRCPC (PM+R)

Associate Professor, University of Manitoba; Health Sciences Centre

Denise C. Hill, MD, FRCP(C), CSCN (EMG)

Clinical Assistant Professor, Department of Physical Medicine and Rehabilitation, University of Calgary; Foothills Hospital

Christine Short, BSc, MD, FRCPC

Assistant Professor, Department of Medicine, Dalhousie University; QEII Health Sciences Centre

Karen M. Smith, MD, FRCPC

Associate Professor, Department of Physical Medicine and Rehabilitation, Queen's University; Providence Care

The "Top Six Articles You Need to Read" session will be led by a group of physiatrists. The intent is to supplement the busy clinician's learning with six succinct presentations of key articles published in the last two years. Each presentation will highlight the article's utility and discuss its implications for clinical practice in a journal club format. Discussion and debate is encouraged.

Learning Objectives:

1. Become familiar with some of the most significant publications in the field of SCI rehabilitation
2. Identify areas of strength/weakness in the current SCI literature
3. Discuss differences in current regional practices

18:15 – 19:30 Cocktail Reception

19:30 – 21:30 Consumers, Scientists and Keynotes Dinner – Sponsored by the Rick Hansen Institute

Day 2 – Saturday, October 30, 2010

07:45 – 08:30 Continental Breakfast

08:30 – 08:50 Welcome and Announcements

Moderator:**Molly Verrier, Dip P&OT MHS (Physical Therapy)**

Associate Professor, Departments of Physical Therapy and Rehabilitation Science, University of Toronto; Toronto Rehabilitation Institute

**08:50 – 09:40 ▶ Keynote Presentation 4
Clarity During Challenging Conversations****John Flannery, MD, FRCPC**

Associate Professor, Division of Physiatry, University of Toronto; Toronto Rehabilitation Institute

During challenging conversations, outcomes are important as emotions are peaked and stakes are high. This is particularly important in SCI where challenging conversations can be part of everyday patient care. The ability to master challenging conversations and be clear during communication is important for long-term relationships and patient care.

Learning Objectives:

1. Recognize key components of challenging conversations
2. Describe at least three steps involved in mastering challenging conversations

09:40 – 09:50 Evaluation of Keynote Presentation and Break

09:50 – 12:00 Scientific Poster Presentations by Award Winning Recipients

The top three award winners in each of the categories of Patient Care, Education, Research and Students will present their posters.

Awards will be presented by:**Anthony Burns, MD, MS**

Toronto Rehabilitation Institute; Division of Physiatry, Department of Medicine, University of Toronto

Molly Verrier, Dip P&OT MHS (Physical Therapy)

Associate Professor, Departments of Physical Therapy and Rehabilitation Science, University of Toronto; Toronto Rehabilitation Institute

12:00 – 12:10 Patti Dawson Scholarship Award and Evaluation of Poster Presentations

12:10 – 13:00 Lunch and Exhibit Viewing
Canadian Paraplegic Association (CPA) 65th Anniversary Sponsored Lunch

12:00 – 13:00 Special Working Lunch for Consumers: Evaluation of the Conference

Consumers will complete written evaluations and discuss the conference with representatives of the Planning Committee.

Moderator:**Anthony Burns, MD, MS**

Toronto Rehabilitation Institute; Division of Physiatry, Department of Medicine, University of Toronto

**13:00 – 13:50 ▶ Keynote Presentation 5
Nutrition, the Missing Link: The Role of Nutrition in Rehabilitation****Joanne Smith, BA, BRT Dip, CNP**

Holistic Nutritionist

This presentation will provide insight into the role that nutrition can play in the rehabilitation process. It will demonstrate how food can be used as a preventative medicine for many of the secondary health complications people with spinal cord injuries face, and reveal how this holistic approach can help empower people to live independently.

Learning Objectives:

1. Review why nutrition has not historically been a significant part of the rehabilitation process
2. Identify what nutrition is and its critical role in healing the body and maintaining one's overall health
3. Demonstrate how nutrition can be used in conjunction with traditional allopathic therapies in treating people with spinal cord injuries

13:50 – 14:00 Evaluation of Keynote Presentation and Break

14:00 – 14:50 Exhibit and Poster Viewing: Even Numbered Posters

14:50 – 15:50 Concurrent Workshops

Workshops 6 – 9 will run concurrently from 14:50 – 15:50.

*** Workshop 6****Upper Limb Sensorimotor and Functional Assessment for Individuals with Tetraplegia — Graded Redefined Strength, Sensibility and Prehension (GRASSP)****Sukhvinder Kalsi-Ryan, BSc, PT, MSc (Physical Therapy), PhD (Candidate)**

Research Physical Therapist, Krembil Neuroscience Centre; University Health Network

Molly Verrier, Dip P&OT, MHS (Physical Therapy)

Associate Professor, Departments of Physical Therapy and Rehabilitation Science, University of Toronto; Toronto Rehabilitation Institute

Naaz Kapadia, BSc PT, MSc (Physical Therapy)

Research Coordinator, Rehabilitation Engineering Laboratory, Toronto Rehabilitation Institute

Jennifer Holmes, BSc, MSc OT

Professional Practice Leader Occupational Therapy, Toronto Rehabilitation Institute

The purpose of this workshop is to understand how measurement of upper limb impairment and function contributes to rehabilitation outcome measurement for clinical practice and clinical research.

Learning Objectives:

1. Review the conceptual framework for development and the psychometric properties of the GRASSP
2. Become proficient in GRASSP assessment and scoring
3. Indicate the methodology of GRASSP documentation for clinical practice and clinical trials
4. Discuss the timing of assessments and approaches to therapy across the recovery profile based on GRASSP scores

*** Workshop 7****Spinal Cord Injury Outcome Measures Toolkit: Clinical Use of Outcome Measures in Spinal Cord Injury Rehabilitation****Amira Tawashy, MSc (Rehabilitation Sciences)**

University of British Columbia

Bill Miller, PhD, OT

Associate Professor, University of British Columbia

Dalton Wolfe, PhD

Assistant Professor, University of Western Ontario

Vanessa Noonan, PhD, PT

Post-doctoral fellow, University of Washington (Seattle)

The purpose of this workshop is to introduce the Outcome Measures (OM) Toolkit for clinicians working in SCI rehabilitation. This toolkit was created by a large Pan-Canadian panel and covers a broad range of clinical areas ranging from pressure sores to community participation.

Learning Objectives:

1. Identify the key elements required for selecting outcome measures for use in clinical practice
2. Evaluate and critically appraise the outcome measures selected for the toolkit
3. Apply information from the OM Toolkit into clinical practice by working through case study examples

*** Workshop 8****Improving Diagnosis of Mild Traumatic Brain Injury in People with Traumatic Spinal Cord Injury****Cheryl Bradbury, PsyD, C Psych**

Assistant Professor, Department of Psychiatry, University of Toronto; Psychologist, Toronto Rehabilitation Institute

Robin Green, PhD, C Psych

Associate Professor, Department of Psychiatry, University of Toronto; Toronto Rehabilitation Institute

Yuko Koshimori, BA, MSc, Candidate

Rehabilitation Sciences, University of Toronto

This workshop will discuss the novel neuroimaging and behavioural approaches for improving the diagnosis of mild traumatic brain injury (mTBI) in people with spinal cord injuries. Presenters will discuss lab findings on diffusion tensor imaging for single case diagnosis of mTBI in people with SCI and present a set of neuropsychological tests tailored for the diagnosis of mTBI in SCI as well as recent findings on the prevalence of brain injury in SCI, utilizing the diagnostic approaches above.

Learning Objectives:

1. Identify the clinical challenges of diagnosing brain injury (especially milder ones) in people with SCI
2. Review how we can use diffusion tensor imaging to diagnose milder brain injuries in people with SCI
3. Explain how a neuropsychological test battery can be tailored and validated for people with SCI and to be able to better identify SCI patients who may be at risk of mTBI

*** Workshop 9****Respiratory Aids in Tetraplegics: From Tracheostomies with Mechanical Ventilation to Diaphragm Pacing: What You Need to Know in 2010****Raymond Onders, MD**

Margaret and Walter Remen Chair of Surgical Innovation, University Hospitals Case Medical Center

MaryJo Elmo, ACNP

University Hospitals Case Medical Center

The need for mechanical ventilation drastically changes the management for high quadriplegics. This session will outline respiratory management of tracheostomies, mechanical ventilation, suctioning, cough assist device, and diaphragm pacing to optimize the care and quality of life of tetraplegics.

Learning Objectives:

1. Indicate how diaphragm and ventilation is affected by SCI
2. Identify ways to improve tracheostomy management and decrease secretions
3. Identify how to overcome loss of control of respiratory muscles with functional electrical stimulation

15:50 – 16:00 Evaluation of Workshops

16:00 – 16:15 Closing Ceremonies

Moderator:

Cathy Craven, BA, MD, FRCP(C), MSc
 Assistant Professor, Departments of Medicine and HPME,
 University of Toronto; Toronto Rehabilitation Institute

Registration

Register by **September 16, 2010** to take advantage of our Early Bird special.

You can also receive a discount on registration if three or more people from the same organization register.

Registration includes continental breakfasts, refreshment breaks, lunches, workshop materials and a certificate of attendance.

Conference Rates:

\$595.00 Individual Rate for the Main Conference (2 days)

\$475.00 Early Bird Individual Rate for the Main Conference (2 days) – Deadline to register is September 16, 2010

\$485.00 Group Rate* for the Main Conference (2 days)

\$315.00 Student Rate for the Main Conference (2 days)**

\$325.00 Individual One-Day Rate

\$175.00 Pre-Course (Thursday, October 28, 2010)

*Groups of three or more from the same organization, cost is per person

**Students must present a photocopy of a valid student ID

Registration closes at 5 p.m. on Friday, October 22, 2010.

Payment by Visa, MasterCard or cheque must accompany the completed online registration form. Payment must be received on or before Thursday, October 7, 2010 for the pre-course and for the conference.

Registration deadlines and fees are subject to change.

Cancellation Policy

A full refund, minus a \$75 administration fee, will be issued for cancellations received via facsimile (at 416-597-6202) or e-mail on or before Thursday, October 7, 2010. No refunds will be issued after this date. Refunds will not be granted to attendees who do not attend the conference.

If you would like more information about registration guidelines and prices please contact Toronto Rehab's Conference Services at 416-597-3422, ext. 3693.

Hotel Reservations

Hilton Niagara Falls Hotel
 6361 Fallsview Boulevard, Niagara Falls

Rate: Sunday – Friday \$99.00 plus taxes
 Saturday \$129.00 plus taxes

Reservation Cut-off Date: September 28, 2010

Reservations: Toll-free at 1-866-873-9829
 (mention Toronto Rehabilitation Institute's 4th National Spinal Cord Injury Conference 2010)

By email at ecomm@fallshotels.com or online at:
www.hilton.com/en/hi/groups/personalized/XLVNFHF-TRI-20101025/index.jhtml

Accessible Guestrooms

Some accessible guestrooms have been put on hold. If you require one, please ask when you make your reservation. For more information on accessible rooms, see our website at www.sciconference.ca.

About Toronto Rehab

Toronto Rehab is Canada's largest teaching and research hospital specializing in adult rehabilitation, complex continuing care and long-term care. At Toronto Rehab, our goal is to advance rehabilitation and enhance quality of life by pushing the frontiers of rehabilitation science. As a fully affiliated and specialized teaching and research hospital of the University of Toronto, we do everything humanly possible to generate new knowledge, put it into practice and share our discoveries with others. Each year, Toronto Rehab's

patient care, research and education programs make a difference in the lives of more than 15,000 people who experience disabling injury, illness and conditions associated with aging. More information is available at www.torontorehab.com.

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