Chair’s Message – Our research capacity is growing!

Dear Colleagues:

The CCA Research Committee has worked diligently this past year to strategically facilitate many initiatives in chiropractic research and our priorities remain committed to further significant progress in 2011. Our sincerest thanks go to immediate past Chair, Dr. Frank Mangoni of New Brunswick, who completed his term in November. His leadership over the last several years has set the stage for exponential growth in the research portfolio.

In 2011, the CCA Research Committee will endeavour to establish two additional Chiropractic Research Chairs/Professorships in Atlantic Canada. This program has been welcomed with tremendous support from the profession and has created significant momentum to increase our capacity to undertake the required research necessary to advance the profession.

In Canada, we currently have 15 DC, PhD’s in fulltime active research and another 15 DC’s being trained in a PhD program. Further in this Bulletin you will see 10 DC’s who have recently been awarded their Master’s degree. This adds to the already 60 DC’s in Canada with a graduate degree. Indeed, our capacity is growing and needs to continue for the foreseeable future.

The Research Committee in 2011 will once again set the stage for the Chiropractic Research Symposium of the Consortal members from across Canada. This group of world class researchers meets September 23/24 in Toronto. Clearly, this is a showcase for the profession and catalyzes further chiropractic research. It will certainly advance the Canadian Chiropractic Research Agenda.

We are looking forward to an exciting year!

Dr. Vince Adams  
Chair, CCA Research Committee 2010-2011
The University of Manitoba has awarded Dr. Steven Passmore the new “Canadian Chiropractic Research Foundation Professorship in Spine Biomechanics and Neurophysiology”.

This Research Professorship is funded with an initial investment of $500,000 in a partnership between Manitoba Health, the Manitoba Chiropractors’ Association, the University of Manitoba and the Canadian Chiropractic Research Foundation and builds on CCRF’s research capacity program focused on universities across Canada. This investment represents the Manitoba government’s commitment to supporting a Chiropractic Research Professorship at one of Canada’s leading universities and to improving the health of Manitobans.

A recognition event was held September 30 at the University. Over 50 attendees heard from a variety of speakers including the Minister of Health, the President of the University and the Dean of the Faculty of Medicine. Three of the original Founders of the CCRF which was incorporated in Winnipeg in the mid 70’s were in attendance, Dr. Ronald Henderson Collett, Dr. Edward Allan Hawkins and Dr. John Kenneth Bloomer.

Dr. Emily Etcheverry PhD, OT Associate Dean and Director of Medical Rehabilitation facilitated the official ceremony and explained the importance of the Professorship, a first for the School. The Manitoba Chiropractors’ Association representatives included Dr. Ernie Miron, Dr. Bill Mulhall and Dr. Sony Canteenwala. CCA President Dr. Eleanor White, and Dr. Martin Gurvey, CCRF Secretary/Treasurer were also in attendance.

Dr. Passmore’s research interests include utilization of human motor control/sensory learning tasks and paradigms as functional quantitative outcome measures of clinical intervention. He holds the rank of Assistant Professor in the School of Medical Rehabilitation in the Faculty of Medicine. The School currently has 27 full-time faculty positions and offers entry to practice degrees in Occupational Therapy, Physical Therapy and Respiratory Therapy as well as a Master of Science (Rehabilitation) degree and a multi-faculty PhD in Applied Health Sciences. Dr. Passmore will develop a well-defined program of research, secure external funding, teach graduate courses, and supervise graduate students in their area of specialty. The School of Medical Rehabilitation provides a collegial working environment and is committed to develop human resource capacity to advance knowledge in rehabilitation and related sciences and practice disciplines.

Dr. Passmore is joined in academia by his spouse who recently graduated as a PT, PhD and is also a new faculty member now at U of M.

Congratulations to both Dr. S. Passmore and Dr. C. Passmore!

Dr. Mathieu Piché DC, PhD has been awarded the 5 year “Research Chair in Pain Neurophysiology” by the Université du Québec à Trois-Rivières.

Dr. Piché is an Assistant Professor at UQTR and his research interests are focused on cerebrospinal mechanisms involved in pain modulation and the effect of spinal pain on autonomic functions. In 2009 he received his PhD in Neurological Sciences from the Faculty of Medicine at the University of Montreal.

Dr. Piché collaborates with Dr. Pierre Rainville PhD, Dr. Philippe Goffaux PhD and Dr. Serge Marchand, PhD at the University of Montreal and University of Sherbrooke in a CIHR 5 year funded project entitled “Electrophysiology and brain imaging of pain modulatory systems”. In addition, he collaborates with Dr. Martin Descarreaux DC, PhD
at UQTR within the Chaire de Recherche en Chiropratique FRCQ - Système Platinum.

From May 2011, he will spend one year in Japan collaborating with a Japanese group from the Tokyo Metropolitan Institute of Gerontology to conduct a brain imaging study using positron emission tomography (PET).

Dr. Piché currently supervises one postdoctoral fellow and six graduate students, including 4 chiropractors (Dr. Ariane Desmarais, Dr. Sébastien Houle, Dr. Renaud Jeffrey-Gauthier, Dr. Alexandra Ladouceur).

In 2010 his scholarly publications include:


5. Desmarais A, Descarreaux M, Houle S, Piché M. Tuning the gain of somato-sympathetic reflexes with somatic stimulation of the spine. Submitted

The Université du Québec à Trois-Rivières (UQTR), established in 1969 is a campus of the Université du Québec, located in Trois-Rivières, Quebec. The university has 12,000 fulltime and part-time students in 8 different campuses, including the main one in Trois-Rivières. Programs include a chiropractic school, midwifery program, podiatric medicine program and engineering program.

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www.canadahelps.org

Consortium Research Agenda Symposium September 2011

As you know, the “CIHR CCRF Workshop III to advance the Chiropractic Research Agenda” in Canada took place October 2009 in Montreal. The upcoming Symposium will strengthen collaborative relationships and foster greater networking opportunities by crossing disciplines. The Consortium consists of university-based neurophysiologists, biomechanists, epidemiologists, social scientists and cell biologists, and will now include chiropractors who are graduate students in a masters or PhD program to facilitate mentorship.

Date: September 23/24, 2011
Location: Intercontinental Hotel Toronto Yorkville
Program: A Program Development Committee (Dr. Martin Descarreaux DC, PhD, Dr. Allan Gotlib DC, Dr. Jill Hayden DC, PhD, Dr. Bernadette Murphy DC, PhD, Dr. Jeff Quon DC, PhD and Dr. Kent Stuber DC, Msc) will organize the format of the Symposium on the two days.

Reception & Dinner: There is a Reception & Dinner on the Friday evening at the prestigious University of Toronto Faculty Club.

The Consortial members are from many universities across Canada and include:

- Dr. Carlo Ammendolia DC, PhD University of Toronto
- Dr. Jean-Sébastien Blouin DC, PhD University of British Columbia
- Dr. Jean Boucher PhD Université du Québec à Montréal
- Dr. Jason Busse DC, PhD McMaster University
- Dr. David Cassidy DC, PhD, Dr.Med.Sc. University of Toronto
- Dr. John Church PhD University of Alberta
- Dr. Jean Boucher PhD Université du Québec à Montréal
- Dr. Jason Busse DC, PhD University of Alberta
- Dr. David Cassidy DC, PhD, Dr.Med.Sc. University of Toronto
- Dr. John Church PhD University of Alberta
- Dr. Simon Dagenais DC, PhD Université du Québec à Trois-Rivières
- Dr. Martyn Descarreaux DC, PhD University of Western Ontario
- Dr. James Dickey PhD Dalhousie University
- Dr. Mark Erwin DC, PhD University of Toronto
- Dr. Jill Hayden DC, PhD University of Western Ontario
- Dr. Walter Herzog PhD University of Calgary
- Dr. Gregory Kawchuk DC, PhD Dalhousie University
- Dr. Gregory Kawchuk DC, PhD University of Alberta
- Dr. Martin Descarreaux DC, PhD University of Saskatchewan
- Dr. Bernadette Murphy DC, PhD University of Toronto Institute of Technology
- Dr. Steven Passmore DC University of Manitoba
- Dr. Mathieu Piché DC, PhD Université du Québec à Trois-Rivières
- Dr. Jeff Quon DC, PhD University of British Columbia
- Dr. John Srbely DC, PhD University of Guelph
- Dr. Jay Triano DC, PhD CMCC
- Dr. Gabrielle van der Velde DC, PhD University of Toronto (THETA)

continued next page...
The following researchers will be joining our Symposium:

Dr. Paul Bruno DC PhD  
CCRF Research Chair in Neuromusculoskeletal Health  
Assistant Professor  
Faculty of Kinesiology and Health Studies  
University of Regina

Dr. Lesley Biggs PhD  
Associate Professor  
Department of History  
University of Saskatchewan

Dr. Adrian Levy PhD  
Professor and Head  
Department of Community Health and Epidemiology  
Dalhousie University  
District Chief, Capital District Health Authority

Dr. Peter Ruben, PhD  
Professor and Chair  
Department of Biomedical Physiology & Kinesiology  
Simon Fraser University

Dr. Martin Simoneau PhD  
Professor  
Division of Kinesiology  
Faculty of Medicine  
Université Laval

Major Clinical Trial in Progress

The University Health Network Whiplash Intervention Trial: A Randomized Controlled Trial of the Effectiveness and Cost-effectiveness of Three Programs of Care for the Treatment of Whiplash-associated Disorders.

Dr. Pierre Côté DC, PhD Associate Professor at the University of Toronto, is the Principal Investigator in this trial sponsored by the University Health Network Toronto and AVIVA Canada.

The University Health Network Whiplash Intervention Trial is a pragmatic randomized controlled trial that aims to determine which of physician care or two rehabilitation programs of care is most effective (and cost-effective) in improving the recovery of patients with recent whiplash associated disorders. Eligible participants are randomized to receive one of three programs of care: 1) the “Soft Tissue Injury Care Model” designed by AVIVA Canada; 2) the “Pre-approved Framework Guideline for Grade I and II Whiplash Associated Disorders” recommended by the Financial Services Commission of Ontario; or 3) a physician-based “Education and Activation” intervention. It is expected that the recruitment phase on the trial will end in the winter 2011.

- Funding: $2,684,100

Accolades and Awards

CCA Young Investigator Awards

Dr. Diana De Carvalho DC, PhD candidate  
University of Waterloo

Dr. Cesar Hincapié DC, MHSc, PhD candidate  
University of Toronto

Dr. Diana De Carvalho and Dr. Cesar Hincapié have been named the recipients of the 2010 CCA Young Investigator Award for their very significant contributions to the chiropractic community.

Dr. De Carvalho recently published the research paper set out below which has had very high impact in the scientific literature. As the “lead author”, Dr. De Carvalho has established herself as a very capable young researcher and clearly in a position to collaborate effectively with world class researchers.

\[
\text{De Carvalho D, Soave D, Ross K, Callaghan J. Lumbar spine and pelvic posture between standing and sitting: a radiologic investigation including reliability and repeatability of the lumbar lordosis measure. JMPT. 2010;33(1):48-55.}
\]

Dr. De Carvalho has also won the CIHR Doctoral Research Award for her study entitled:

“Effectiveness of a lumbar support in maintaining the lumbar lordosis in sitting: A radiographic comparison of initial and long-term effects on lumbar spine and pelvic posture during simulated prolonged driving”.

The award of $66,000 funds her PhD studies at the University of Waterloo. She is studying under the supervision of Dr. Jack P. Callaghan who currently holds the Canada Research Chair in Spine Biomechanics and Injury Prevention. Dr. De Carvalho’s research goal is to examine the spine biomechanics and low back pain injury mechanisms associated with...
sitting. Specifically, she is interested in gender differences and spine posture responses to prolonged static conditions.

Dr. Hincapié, as a “principal investigator” recently published the high impact research paper set out below.


Dr. Hincapié has also been awarded the prestigious CIHR Fellowship Award in the Area of Knowledge Translation. The award comes with $165,000 and supports his PhD program. The project title is:

“And epidemiologic assessment of the risk for acute lumbar spine disc herniation from chiropractic care”.

Dr. Hincapié is a PhD candidate in Epidemiology at the Dalla Lana School of Public Health, University of Toronto, a doctoral trainee in the Division of Health Care and Outcomes Research, at the Toronto Western Research Institute, University Health Network, and a research associate in the Artists’ Health Centre Research Program, at the Toronto Western Hospital. His current research interests include the epidemiology of musculoskeletal disorders and injury. He is undertaking his doctoral training with Dr. David Cassidy and Dr. Pierre Côté, at the University Health Network.

Congratulations to both Dr. De Carvalho and Dr. Hincapié!

**CIHR Fellowship Award**

**Knowledge Translation Canada Award**

Dr. André Bussières has won a prestigious CIHR Fellowship Award. The CIHR Award in the Area of Primary Care comes with $110,000 and supports his PhD program at the University of Ottawa. In addition, he has won the KT Canada Fellowship Award which provides $35,000 in funding to PhD candidates.

His PhD research thesis focuses on Knowledge Transfer and Exchange (KTE) of clinical practice guidelines and the overall goal of his thesis project is to establish a scientific rationale for interventions to translate research findings into clinical practice.

Dr. André Bussières is a CMCC graduate (1991) and completed a BSc in Nursing in 1987 and an MSc in Kinesiology in 2008. He is a Fellow of the College of Chiropractic Scientists (Canada) and serves as a member of the JCCA Editorial Board and as a peer reviewer to a number of journals. To date he has written over 20 scientific and clinical articles and 3 book chapters. He is a full professor at UQTR and was program director of the chiropractic department between 2005 and 2008.

Dr. Bussières was the recipient of the 2009 CCA Young Investigator Award. In addition, he was the principal investigator of three diagnostic imaging practice guidelines for musculoskeletal complaints in adults. These are open access in JMPT. Recently he won two international prizes, from the European Chiropractic Union (ECU) and the Association of Chiropractic Colleges Educational Conference (ACC-RAC).

Currently Dr. Bussières is undertaking his PhD training in Population Health at the University of Ottawa. His supervisor is Dr. Jeremy Grimshaw who is the Co-Chair of the Cochrane Collaboration and Director of Cochrane Canada as well as a Tier 1 Canada Research Chair in Knowledge Transfer and Uptake at the University of Ottawa. Dr. Grimshaw also spearheads Knowledge Translation Canada.

Congratulations to Dr. Bussières!

**Hansjörg Wyss Foundation Award**

Congratulations to Dr. Mark Erwin DC, PhD who received the prestigious Hansjörg Wyss Foundation Award which will fund his research project entitled: “A Cellular and Molecular Strategy to Unlock the Regenerative Reservoir of the Notochordal Cell: A Novel Approach to Treat Intervertebral Disc Degeneration”. The project underwent a rigorous peer review process at AOSpine International. The official Award ceremony took place during the World Forum of Spine Research in Montreal, a very highly regarded scientific venue. In addition to receiving the award, Dr. Erwin was a presenter at the World Forum. He has also made presentations of his research to very prestigious scientific venues which include: the AO-Spine North America, the International Cartilage Repair Society, the Global Spine Congress, the American Association of Orthopedic Medicine, the University of Toronto Spine Programme and the Canadian Spine Society.

Dr. Erwin is an Assistant Professor in the Department of Surgery in the Faculty of Medicine and holds the “CCRF Scientist in Disc Biology” position at the University of Toronto where he is notably a member of the Executive Committee of the University of Toronto Spine Programme and is involved in establishing its 5 year strategic plan.

Dr. Erwin is funded by a $500,000 partnership that includes CCRF, University of Toronto, OCA, Krembil Neuroscience Center and the Arthritis and Autoimmune Research Center.
Dr. Carlo Ammendolia DC, PhD!

Dr. Ammendolia has been named the recipient of the CCRF OCA Research Award of $60,000 in the recent open competition. The Ontario-based CCRF OCA Awards Program promotes chiropractic research in Ontario by supporting significant research of strategic value to the province and focuses on scientific excellence.

Dr. Ammendolia is a clinical epidemiologist and Assistant Professor in the Department of Health Policy, Management and Evaluation in the Faculty of Medicine at the University of Toronto. At Mount Sinai Hospital in Toronto, Dr. Ammendolia is Director of the Chiropractic Spine Clinic in the Department of Medicine where patients have direct access to chiropractic services in the hospital setting.

Mount Sinai Hospital is a University of Toronto affiliated Hospital with an international reputation for patient care excellence and cutting edge research. The Rebecca MacDonald Centre for Arthritis and Autoimmune Disease at Mount Sinai Hospital is home to some of the world’s foremost researchers in arthritis, back pain and other musculoskeletal disorders. The Centre has a state of the art infrastructure for conducting research.

As the PI, Dr. Ammendolia will develop an outstanding research program on degenerative lumbar spinal stenosis and related conditions supported by a network of world class institutions and researchers who will contribute to his clinical research program. Dr. Simon Carette, Dr. Alejandro Jadad, Dr. Mike Evans, Dr. Ed Keystone, Dr. Raj Rampersaud, Dr. Claire Bombardier and Dr. Gillian Hawker will be co-investigators in an outstanding research program which consists of four integrated research projects:

1. Developing Diagnostic Criteria for Neurogenic Claudication due to Lumbar Spinal Stenosis. An International Collaboration
2. Non-surgical Treatment for Neurogenic Claudication due to Lumbar Spinal Stenosis; a Systematic Review
3. The Effectiveness of a Comprehensive Conservative Management Program for Degenerative Lumbar Spinal Stenosis: A Randomized Controlled Trial
4. Building an IT Infrastructure to Enhance Research and Quality Care in Degenerative Lumbar Spinal Stenosis: the DLSS Surveillance Project.

Dr. Ammendolia will receive significant In Kind infrastructure support from the Rebecca MacDonald Centre for Arthritis & Autoimmune Disease, and Industry Partner support from Meditech International.

Lumbar spinal stenosis is one of the most commonly diagnosed and treated pathological spinal conditions and frequently afflicts the elderly population. New cases of DLSS are expected to increase dramatically over the next 20 years. Dr. Ammendolia has an excellent clinical and research record with over 15 publications in peer reviewed journals in the past 5 years. This is an excellent investment for the Canadian Chiropractic Research Foundation and a wonderful opportunity for Dr. Ammendolia and the chiropractic profession to advance inter-professional collaboration, to build intellectual capacity for university-based chiropractic research and to engage in research that is clinically relevant to the chiropractic profession.

Congratulations to Dr. Carlo Ammendolia DC, PhD!

Canada Foundation for Innovation
Ontario Ministry of Research & Innovation Award
OCA Research in Chiropractic Award

Congratulations to Dr. Murphy!

In 2010 Dr. Murphy was awarded $49,065 from the Canada Foundation for Innovation and $49,065 in matching funding from the Ontario Ministry of Research & Innovation to purchase equipment for her project “The effect of altering afferent input from the spine and limbs on central sensorimotor integration”.

In 2010 alone, Dr. Murphy has no less than 8 papers published or in press. Needless to say, these are all remarkable academic achievements from a chiropractic researcher who has always strived for excellence in chiropractic research.


This reliability study determined the reproducibility of the cervical flexion-relaxation ratio (FRR) measured 4 weeks apart in a group of chronic neck pain patients and healthy control group and compared the FRR between the 2 groups. It concluded the cervical extensor muscles exhibit a consistent flexion-relaxation phenomenon in healthy control...
subjects and the measurement is highly reproducible when measured 4 weeks apart in both controls and chronic neck pain patients. The FRR in neck pain patients is significantly higher than in control subjects suggesting that this measure may be a useful marker of altered neuromuscular function.

In December, Dr. Murphy received the distinguished Ontario Chiropractic Association “Research in Chiropractic Award” for advancing the understanding of chiropractic through research and scientific enquiry.

FRSQ Career Award

Congratulations to Dr. Descarreaux! Fonds de la recherche en santé du Québec (FRSQ) has awarded Dr. Descarreaux the “Chercheur Boursier Junior II” for the 2010-2014 period. This Research Scholar Award in the Clinical and Epidemiological research category provides $60,000 per year to support his research.

The project is entitled: Développement d’un outil de catégorisation des patients atteints de lombalgies non spécifiques. In 2010, Dr. Descarreaux published no less than 9 scholarly papers in the scientific peer reviewed literature.

Honorary Professor Award

The very distinguished Dr. David Cassidy, in addition to his continuing numerous accolades, has now been awarded the prestigious “Honorary Professor in Clinical Biomechanics” award in the Faculty of Health Sciences at the University of Southern Denmark for a 5 year term.

In addition, he has won a very significant grant: Leth-Peterson S, Pons Rotger G, Cassidy JD. The importance of ex post moral hazard among whiplash claimants: quasi experimental evidence. Danish Council for Independent Research: Social Sciences. November 2010-December 2013. 750,000 DKK ($140,925 CAD).

Congratulations to Dr. Cassidy!

OCA Chiropractor of the Year Award

Each year the Ontario Chiropractic Association honours members whose contributions to the profession reflect the highest standard of professional excellence and exemplary dedication to service. Chiropractor of the Year is the OCA’s most prestigious award. For more than 50 years this award has been presented annually to honour the significant contribution and personal sacrifice of an association member for the advancement of the profession.

Congratulations to Dr. Côté!

Promotions and Appointments

Academic Promotion

Congratulations go to Dr. Bernadette Murphy promoted to the rank of “Full professor” at the University of Ontario Institute of Technology (UOIT) a very significant achievement.

Dr. Murphy is tenured in the Faculty of Health Sciences at the University in Oshawa Ontario where she is Head of the Kinesiology Specialization program. Dr. Murphy is a 1989 CMCC graduate and received her PhD in Physiology from the University of Auckland in 1998. Her research interests in Human Neurophysiology focus in understanding how the human central nervous system adapts in conditions such as chronic musculoskeletal pain and depression.

Her research has been funded by the Natural Sciences and Engineering Council, Australian Spinal Research Foundation, Auckland Medical Research Foundation and the Foundation for Chiropractic Education and Research and most recently by CFI and the Ontario Ministry of Research.

The research themes measure altered neural function in humans through a number of non-invasive techniques including nerve stimulation, somatosensory evoked potential techniques to measure processing of sensory input by the brain, electromyography to measure electrical activity in muscles, and transcranial magnetic stimulation to investigate the output of the human motor cortex, and magnetic resonance imaging (MRI) to measure changes in muscle function and functional MRI to investigate changes in brain function with exercise.

continued next page...
NASS Biologics Committee Appointment

Dr. Erwin has been appointed by the North American Spine Society (NASS) Board of Directors as a member of the Section on Spine Biologics and Research. The responsibilities of Committee members of the Section on Spine Biologics and Research are:

- provide unbiased, comprehensive evaluation of biological treatments for spinal conditions from a scientific perspective.
- stimulate educational courses for the presentation and dissemination of practical applications of biological treatments in all stages of research and clinical usage.
- stimulate and/or collaborate on position statements regarding aspects of the science or clinical applications of biological treatments.
- provide a forum for review and discussion of activities in this area.

In addition, Dr. Erwin has just been invited to present his research at the very prominent Global Spine Congress 2011 in Barcelona in March.

Congratulations Dr. Erwin!

FSCO Appointment

Congratulations go to Dr. Pierre Côté!

The Financial Services Commission of Ontario (FSCO) has appointed Dr. Côté as Chair of the Catastrophic Impairment Expert Panel.

Striking an expert panel to review the definition of catastrophic impairment, set out in the Statutory Accident Benefits Schedule (a regulation under the Insurance Act), was one of the elements of the Ontario Government’s 2010 automobile insurance reforms. The Government directed that FSCO conduct a consultation with the medical community on the definition of catastrophic impairment. The expert panel will make recommendations to ensure that the most seriously injured accident victims are treated fairly.

In addition to reviewing the definition of catastrophic impairment, the panel will recommend qualifications and experience requirements for health professionals who conduct catastrophic impairment assessments. The Superintendent will be conducting consultations with all stakeholders before making any final recommendations to the Government. It is expected that the panel will complete its review and make recommendations to FSCO by early Spring 2011.

Select Brief Updates

Dr. Jill Hayden and colleagues have established the Nova Scotia Cochrane Resource Centre with funding from the Nova Scotia Health Research Foundation and support from the Canadian Cochrane Centre. The Nova Scotia Cochrane Resource Centre aims to build local capacity to support Cochrane and other systematic review research as well as to facilitate evidence-informed health care practice and policy. Dr. Hayden was recently awarded a 2-year extension to the infrastructure funding for this initiative.

Dr. Hayden, along with Dr. Rachelle Buchbinder and Dr. Glenn Pransky, served as Guest Editors for a recent special issue of Best Practice & Research in Clinical Rheumatology, “Back Pain & Non-inflammatory Spinal Disorders” (April 2010). She contributed to three papers in the issue:


In addition, Dr Hayden has 3 new research grants:


Dr. Paul Bruno is establishing a “Saskatchewan Chiropractic Research Working Group” analogous to the McMaster Chiropractic Working Group. Clinicians and researchers who are interested in participating in this group should contact Dr. Bruno. Paul.Bruno@uregina.ca

Dr. Bruno was recently invited to the University of Manitoba to give a guest presentation to the faculty members in the School of Medical Rehabilitation. His topic was: “Objective functional assessment in low back pain rehabilitation.”

In November, he presented to the university faculty, students and health care practitioners at the University of Regina on “Clinical testing procedures in low back pain rehabilitation.” This followed his invited platform presentation “Objective clinical assessment of dynamic lumbopelvic instability” at the recent Canadian Chiropractic Convention in Toronto.

Dr. Srbely’s primary research interest focuses on the study of the neurophysiologic mechanisms of central sensitization, a neuradapptive response which has been linked to the pathophysiology of an increasing number of musculoskeletal (somatic) and non-musculoskeletal (visceral) conditions.

Currently Dr. Srbely is lead investigator on 7 Guelph Ethics Board approved RCT’s, involving multidisciplinary collaborations with world class researchers including Dr. John Bush, PhD at MIT (Boston, MA), Dr. Jim Dickey, PhD (University of Western Ontario), Dr. Leah Bent, PhD (University of Guelph), Dr. John Zettel, PhD (University of Guelph), Dr. Stephen Miller PhD (University of Guelph), and Dr. Bernadette Murphy, DC PhD (UOIT). The neurophysiology lab is headed by Dr. Leah Bent, one of few researchers in Canada who are trained in the technique of microneurography. Microneurography is a technique used to record signals from neurons by inserting microelectrodes directly into peripheral nerves, allowing us to collect high-quality data on in-vivo human subjects.

Dr. Srbely is the only chiropractic researcher (DC, PhD) holding the distinction of “Canadian Arthritis Network Investigator”. The Canadian Arthritis Network (CAN) is a not-for-profit organization that supports integrated, trans-disciplinary research and development. CAN is the single point of contact that links 170 of Canada’s leading arthri-

This past October, Dr. Kawchuk’s group published a highly significant paper in Spine.


This research is the first to show which tissues are loaded by manual therapy and paves the way for understanding how tissues respond to chiropractic treatment. Furthermore, this research has created a new technology and a University of Alberta Press-Release is anticipated shortly.

This study utilized serial dissection of porcine motion segments during robotic control of vertebral kinematics to identify which spinal tissues are loaded in response to manual therapy (manipulation and mobilization) and to what magnitude. In 9 porcine cadavers, manual therapy was provided to L3 and the kinematic response of L3–L4 recorded. The exact kinematic trajectory experienced by L3–L4 in response to manual therapy was then replayed to the isolated segment by a parallel robot equipped with a 6-axis load cell. Discrete spinal tissues were then removed and the kinematic pathway replayed. The change in forces and moments following tissue removal were considered to be those applied to that specific tissue by manual therapy. Results showed that both manual therapies affected spinal tissues. The intervertebral disc experienced the greatest forces and moments arising from both manipulation and mobilization.

The observation that manual therapy loads some tissues to a much greater magnitude than others offers a possible explanation for its modest treatment effect. Future studies are planned to determine if manual therapy can be altered to target (or avoid) specific spinal tissues.
Dr. Srbely’s position is supported by the Ontario Chiropractic Association, Canadian Chiropractic Research Foundation, and the University of Guelph. In addition, he was awarded a $48,000 grant from the Canadian Arthritis Network to investigate the mechanisms of pain in osteoarthritis.

Dr. Quon is now a Research Associate in the Combined Neurosurgical & Orthopaedic Spine Program in the Department of Orthopaedics at UBC. In addition, he is a Research Associate at ICORD, the International Collaboration on Repair Discoveries facility.

In 2010 his scientific publications included:


The second paper won the 2010 Award for Outstanding Paper in the category of Medical Rehabilitation & Interventional Care from The North American Spine Society and The Spine Journal.

Currently, Dr. Quon is the Principal Investigator in two research projects:

1. The association between wait-list time and clinical outcome following elective surgical lumbar discectomy. The goal of the study is to determine if time from surgical waitlist enrolment till date of surgery independently predicts clinical outcome (pain reduction) at six months after surgery.

2. A systematic review of the efficacy of Farabloc for chronic pain. Farabloc is a fabric which putatively shields an enclosed body part/region from high frequency electromagnetic field (EMF) radiation and therefore supposedly allows low frequency EMF radiation to stabilize cellular permeability, limit release of inflammatory factors and consequently modify pain perception. The goal of the study is to estimate the magnitude of the effect (if any) of Farabloc use on pain intensity among patients with chronic neuropathic pain.
More New Masters Graduates
Congratulations!

Dr. Craig Jacobs DC, MSc
University of Toronto Program

Dr. Daniel Avrahami DC, MSc
McMaster University Program

Dr. Scott Howitt CK, DC, FCCSS(C), FCCRS(C), MSc
University of Guelph Program

Dr. Brian Gleberzon DC, MHSc
University of Sydney Program
Professor, CMCC

Dr. Brian Arthur DC, MSc
University of London Program

New PhD’s
Congratulations!

The CCRF is delighted to announce that Dr. Richard André Roy DC has successfully defended his PhD thesis at Université du Québec à Montréal (UQAM) in the Faculté des sciences de l’éducation, in the Département de kinanthropologie. Dr. Roy is a 1997 Palmer graduate. In 2004, he completed his Master’s degree in Kinanthropology (Neurokinetics). At UQAM, he conducted his thesis research under the supervision of Dr. Alain S. Comtois, PhD, Professeur Physiologie du Travail.

His thesis was entitled:

Neuroimmunology: Clinical studies to measure the effect of the chiropractic adjustment on cutaneous temperature, the cardiac rhythm variability and the cytokines (C-Reactive Protein and Interleukin-6)

The CCRF is delighted to announce that Dr. Silvano Mior DC, PhD successfully defended his PhD thesis in the Department of Health Policy, Management and Evaluation in the Faculty of Medicine at the University of Toronto. Dr. Mior is a 1980 CMCC graduate. In 2004, he transferred from the Master’s into the PhD program with a concentration on Health Services Outcomes and Evaluation.

At U of T he conducted his thesis research under the supervision of Dr. Rhonda Cockerill PhD, Professor and Graduate Coordinator, Department of Health Policy, Management and Evaluation.

His research interests are in the areas of clinical outcomes, health services, and assessing models of interdisciplinary practice.

His thesis was entitled:

Patients’ Perceptions of the Primary Care Characteristics in a Model of Interprofessional Patient-Centred Collaboration between Chiropractors and Physicians.
PhD’s coming down the pipe!

Dr. Jean-Alexandre Charland
Boucher DC, PhD candidate
Université du Québec à Trois-Rivières

Dr. Marc-André Blanchette DC, PhD candidate
Université de Montréal

Dr. Karine Bolly DC, MBA, PhD candidate
University of British Columbia

Dr. André Bussières DC, PhD candidate
University of Ottawa

Dr. Diana De Carvalho DC, PhD candidate
University of Waterloo

Dr. Ted Crowther DC, EdD candidate
D’Youville College

Dr. Connie D’Astolfi DC, PhD candidate
York University

Dr. Cesar A. Hincapié DC, PhD candidate
McMaster University

Dr. Alexandra Ladouceur DC, PhD candidate
Université Laval

Dr. Steven Passmore DC, PhD candidate
University of Toronto

Dr. Jean-Philippe Pialasse DC, PhD candidate
Université du Québec à Trois-Rivières

Dr. Mana Rezai DC, PhD candidate
University of Toronto

Dr. Maja Stupar DC, PhD candidate
University of Toronto

We will need to find a home for each of our new researchers!!!! If you are not yet a member of the CCRF, please consider joining CCRF and supporting their strategic research initiatives.

Quebec City to host Cochrane Collaboration’s international health research conference

The Canadian Cochrane Centre (CCC) has won a bid to coordinate the 2013 Cochrane Colloquium, an international health research conference put on by The Cochrane Collaboration and attended by nearly 1,000 researchers and experts from around the world.

The CCC, will host the Colloquium in Quebec City from Sep. 19-23, 2013. Each year, the Cochrane Colloquium provides an opportunity for the best and brightest research minds to come together and discuss innovation in evidence-based medicine.

The Cochrane Collaboration is the world’s leading independent assessor of medical interventions and medical research. It is a not-for-profit organization of over 28,000 contributors from more than 100 countries and is dedicated to making up-to-date, accurate information about the effects of health care treatment readily available worldwide. Cochrane contributors evaluate and synthesize research in all aspects of health care by mining the existing research to find the best possible evidence and identify research gaps. This information is presented in systematic reviews, known as Cochrane reviews, which are updated periodically to account for new evidence and are published online in The Cochrane Library (thecochranelibrary.com). Cochrane reviews help health providers, practitioners and patients make well-informed decisions about health care.
Dear Colleagues

In 2010, CCRF operated with a Board approved total budget of $877,000 in revenues and supported $765,000 in restricted programming alone. CCRF funding commitments are primarily allocated to supporting the Research Chair and Professorships program across Canada.

In 2010, CCRF had financial commitments to fund the following:

1. Dr. Walter Herzog PhD, a Canada Research Chair at the University of Calgary.
2. Dr. Mark Erwin DC, PhD, the CCRF Scientist in Disc Biology at the University of Toronto.
3. Dr. Jill Hayden DC, PhD, the CIHR/CCRF Chiropractic Research Chair at Dalhousie University.
4. Dr. Jean-Sébastien Blouin DC, PhD, the CIHR/CCRF Chiropractic Research Chair at the University of British Columbia.
5. Dr. Jason Busse DC, PhD, the CIHR/CCRF Chiropractic Research Chair at McMaster University.
6. Dr. Jean-Sébastien Blouin DC, PhD, the CCRF/UBC Professorship in Spine Biomechanics and Neurophysiology at the University of British Columbia.
7. Dr. Steven Passmore, the CCRF Professorship in Spine Biomechanics and Neurophysiology at the University of Manitoba.
8. Dr. John Srbely DC, PhD, the CCRF Professorship in Spine Mechanics and Neurophysiology at the University of Guelph.
9. Dr. Paul Bruno DC, PhD, the CCRF Research Chair in Neuromusculoskeletal Health at the University of Regina.
10. Dr. Carlo Ammendolia DC, PhD, Mount Sinai Hospital and the University of Toronto.

As I review the list of the excellent researchers that the CCRF is able to support this year, I realize that I have had the very good fortune to meet and talk to many of these individuals in person.

In addition, through my involvement with CCRF, I have had the opportunity to speak with many of the researchers mentioned above.

The enthusiasm that they each demonstrate for their individual areas of interest and its future impact on the profession is highly palpable. They are approachable, interesting, and enjoy engaging in conversation with those of us that practice on a day to day basis.

When you are attending various meetings and have the opportunity to converse with these people, please do so. You will come away with a whole new appreciation of our researchers and a better understanding of the importance of joining and maintaining membership in the CCRF.

Provincial/National donations

In 2010, the Provincial/National donations to CCRF included the following:

- British Columbia $100,000
- Alberta $ 90,000
- Saskatchewan $ 63,700
- Manitoba $ 57,500
- Ontario $170,000
- Nova Scotia $ 14,250
- New Brunswick $ 7,375
- Newfoundland/Labrador $ 6,750
- Prince Edward Island $ 1,000
- CCA $330,500

Foundation memberships

The membership in CCRF now totals over 1600 chiropractors. The CCRF goal is to have all Canadian chiropractors become annual members of CCRF. At $125 per year that represents the best investment anyone can make in our profession.

I want to thank The CCA, and all of those provinces and individuals that provide funding support to the CCRF. Without their donations and leadership, we cannot realize our vision and goals. In addition I want to thank the CCRF Board members and Officers for their tremendous support and insight.

Membership in the CCRF costs $125.00. This tax deductible contribution helps the CCRF oversee and coordinate this extensive research program. If you agree that we must maintain our efforts, you can very easily join those who have demonstrated their commitment. Contact your CCRF provincial representative or Dr. Allan Gotlib (AGotlib@chiropracticcanada.ca) to make a tax-deductible contribution to CCRF.

Make an investment in your profession!
The Canadian Chiropractic Research Foundation is delighted to announce that Dr. Frank Mangoni DC has been appointed to the CCRF as a Vice-President.

Dr. Mangoni received his Bachelor of Science Degree in Biochemistry in 1991 from the University of Toronto. In 1995 he graduated from the Canadian Memorial Chiropractic College and has since been in clinical practice. In the past 15 years of service to the profession, Dr. Mangoni has made exemplary contributions to the chiropractic community.

He has served on countless committees during his career, including:

- Vice President, NBCA: 1997-1998
- President, NBCA: 1998-2004
- CCA Governor for NB: 2004-Present
- Chair, NBCA Complaints Committee: 1997-1998
- Chair, NBCA Board: 2004-Present
- Chair, CCA Research Committee: 2006-Present
- Chair, CCA Relocation Committee: 2009

Dr. Mangoni is the immediate past Chair of the CCA Research Committee and is the recipient of the distinguished CCRF President’s Citation Award.

You can help to ensure the success of this program by becoming a member of the Canadian Chiropractic Research Foundation, and it couldn’t be easier.

Go to [www.canadahelps.org](http://www.canadahelps.org), click a few buttons, enter your credit card number (VISA, Mastercard, American Express) and get an immediate tax receipt. Or, fill out the membership form and mail your cheque.

Your membership will be tremendously helpful and most appreciated. Please become a member of the CCRF and support the chiropractic research initiatives which will ensure the future of our profession.

### Select Recent Scientific Publications 2010


The CCA, the CCA Research Committee and the Canadian Chiropractic Research Foundation (CCRF) are committed to improving the health of Canadians.

This Bulletin is distributed to the Canadian chiropractic research community. (20/12/10) You may view the preceding seventeen bulletins on the CCA website at www.chiropracticcanada.ca

For further information, contact Dr. Allan Gotlib, CCA Director, Research Programs
Tel: 416-585-7902 • Email: AGotlib@chiropracticcanada.ca

CCRF Membership Opportunities

The Foundation has several categories of membership but you may donate any amount you wish. Each member will receive a tax receipt for the full donation amount, the Chiropractic Research Bulletin, a listing in the Bulletin if you wish, and a Membership Certificate for your office.

Every dollar you donate helps us reach our goals. You may even attach conditions to your donation such as supporting a university-based Chiropractic Research Chair in your province, or a specific research interest.

In 2011, the Foundation hopes to see more university-based Chiropractic Research Chairs become available. Each Chair requires $500,000 so please be generous.

Help us reach our goals!

- Bronze Membership $125
- Silver Membership $500
- Gold Membership $1,000
- Platinum Membership $5,000
- Benefactor Membership $10,000
- Heritage Membership $25,000

Membership Information (please enclose with your membership payment):

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Please send completed membership form to:

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