

Canadian Chiropractic Research Bulletin

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The CCA Mission Statement

The Mission of The Canadian Chiropractic Association is to help Canadians live healthier lives by:

- informing the public of the benefits of Chiropractic,
- promoting the integration of Chiropractic into the health care system,
- facilitating chiropractic research.

The CCA Research Committee Members

Dr. Chris Martin (BC) - Chair

Dr. Frank Mangoni (NB)

Dr. Debbie Brake-Patten (NF)

Dr. Deb Kopansky-Giles (ON)

Dr. Grayden Bridge (AB) – Executive Committee liaison

Chair's Message - Investing in people



Dr. Chris Martin DC
Chair, CCA Research Committee

The CCA Research Committee, and the Canadian Chiropractic Research Foundation (CCRF) have enjoyed a very successful year to date. Our strategies of building and maintaining pivotal *relationships* with federal granting agencies, universities, and research organizations, clearly advances our integration into Canada's health care system. "***Investing in people***" who will foster enduring commitments has been tremendously successful in bringing us much closer to realizing our organization's mission.

One of our many goals is the full integration of our profession and its new knowledge into the health care delivery system in order to ensure quality health care for all Canadians. There is a distinction to be drawn between Canada's health care system and Canada's health research system. To be effective, our organization must provide the means to substantially increase our ability to do research in the universities, hospitals and affiliated institutes. We have made important gains in the health research system and these gains will lead to significant benefits for the profession and for Canadians as these gains impact the health care system. The chiropractic profession has an important role to play in health research and health care in Canada and the next 5-year period will be determinative of our very future.

You will see in this bulletin how our capacity is increasing. Our many researchers to date, such as Dr. Greg Kawchuk DC, PhD, Dr. Mark Erwin DC, PhD, Dr. Jean-Sébastien Blouin DC, PhD, Dr. Jill Hayden DC and many others, have strengthened the foundation of our bridges to the universities such as the University of Alberta, the University of Toronto and the University of British Columbia. Our relationship with research organizations is growing as well. Dr. Allan Gotlib for example, has facilitated and helped to solidify our bridges with the Canadian Institutes for Health Research (CIHR) and the Cochrane Collaboration.

In the coming year we hope to establish three additional chiropractic researchers as Chairs in universities as part of the CCRF CIHR partnership program. If realized in full, this aspect of the program potentially amounts to more than a \$1.6 million **investment in people**. And in addition, the UQTR in Québec has recently announced a newly created university-based Chiropractic Research Chair which was awarded to Dr. Martin Descarreaux DC, PhD. This is very exciting news for the profession.

More chiropractors are considering research as a career path. We are moving steadily forward and our research capacity is increasing as we had hoped. Ideally we will soon have chiropractic researchers based at universities all across Canada, but “*investing in people*” is our first step.

Canadian Chiropractic Research Foundation



Dr. Rob Allaby DC
President, CCRF

CCRF Board of Directors and Officers

Dr. Rob Allaby DC (NB) – President
Dr. Martin Gurvey DC (MB)
Dr. Eric Jackson DC (ON)
Dr. David Brunarski DC (ON)
Dr. Ron Bodkin PhD (ON)
Dr. Dave Peterson DC (AB)
Dr. Allan Gotlib DC (ON)

President's Message: Helping the profession meet its research targets

Our profession's capacity to do research is growing. But we need to catalyze even faster growth! Sound research enhances our profession's credibility. Canadians benefit when our credibility increases. University-based chiropractic researchers allow our chiropractic knowledge to be integrated into the national health research and healthcare systems and this enables us to do our part in terms of mitigating the burdens of illness and disability that so many Canadians needlessly endure.

Less than 1% of our profession is actively engaged in fulltime health research. CCRF addresses this inequity with the targeted goals of establishing and facilitating the funding for a university-based Chiropractic Research Chair in each province in Canada. By “investing in people”, CCRF has created extraordinary opportunity for many chiropractors to pursue a career in research and obtain their PhD’s and secure the training and expertise required to advance our profession.

The rigorous training our chiropractors receive in the universities as part of their graduate studies, provides the basis for our profession to firmly withstand the scrutiny of the scientific community. It also provides the basis for sound evidence to support what 99% of us do in clinical practice and the successes we experience with our patients everyday.

Currently CCRF is funded by provincial donations, Foundation memberships, fundraising events and partnering with government agencies. I want to sincerely thank *all of the provinces* for their continued support of the CCA/CCRF research program. Their commitment to our goals has ensured our continued success in meeting the challenges our profession faces. I also thank the many individual members of the CCRF who annually contribute through their membership. We truly appreciate your participation and commitment to the CCRF.

Our most valuable commodity is our researchers. It takes \$500,000 to create and support a university-based Chiropractic Research Chair or Professorship. *Please support the CCRF with a donation or a membership. Your contribution is tax deductible.*

Contact your CCRF provincial representative or Dr. Allan Gotlib (algotlib@ccachiro.org) to make a tax-deductible contribution to CCRF.

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The CCA, the CCA Research Committee and the Canadian Chiropractic Research Foundation (CCRF) have been the key element in fostering our strategies and goals and are to be commended for their exemplary leadership roles and commitment to improving the health of Canadians.

University of British Columbia announces new CCRF Professorship



Dr. Jean-Sébastien
Blouin DC, PhD

Dr. Jean-Sébastien Blouin DC, PhD has been named to the Canadian Chiropractic Research Foundation (CCRF) Professorship in Spine Biomechanics and Neurophysiology at UBC.

The Canadian Chiropractic Research Foundation and the University of British Columbia have jointly established the CCRF Professorship in Spine Biomechanics and Neurophysiology at the School of Human Kinetics.

This 5-year full-time tenure tracked position for a DC, PhD begins with an initial investment of \$500,000 and is funded by the CCRF, UBC, the British Columbia Chiropractic Association (BCCA) and the British Columbia College of Chiropractors (BCCC). This agreement is an international milestone for the profession.

Dr. Blouin received his Doctor of Chiropractic degree from Université de Québec à Trois-Rivières in 1999 and his MSc and PhD degrees in Kinesiology from Université Laval in 2001 and 2004 respectively. His doctoral research focused on the control mechanisms underlying head and neck stabilization during forward seated perturbations. He has published papers in leading journals such as Spine, Experimental Brain Research, Pain, Gait Posture, and Journal of Physiology.

Dr. Don Nixdorf, the BCCA Executive Director, attended the UBC President's Circle Event on May 11, 2006 and was welcomed by then President Martha Piper. UBC is listed as one of the top 40 universities in the world. The official announcement from UBC welcoming this outstanding scholar will occur at a prestigious reception to be held on October 12, 2006. The Boards of the BCCA and BCCC are to be commended for their exemplary leadership role in making this a reality!

Dr. Blouin's recent paper published in the Journal of Physiology is already sending tidal waves across the international scientific community. Blouin JS, Inglis JT, Siegmund GP. Startle responses elicited by whiplash perturbations. J Physiol 2006;573(3):857-867.

University-based Chiropractic Research Chairs/Professorships Update

Dr. Greg Kawchuk DC, PhD, Canada's 1st university-based Chiropractic Research Chair is now the "Canada Research Chair" in Spinal Function at the University of Alberta in Edmonton (greg.kawchuk@ualberta.ca). He has been awarded competitive funding by the Canada Foundation for Innovation (CFI), University of Alberta, CIHR, NSERC, College of Chiropractors of Alberta, Ontario Chiropractic Association and the CCRF totalling several million dollars.

Dr. Mark Erwin DC, PhD is our 2nd university-based Chiropractic Research Chair and he is at the University of Toronto (mark.erwin@utoronto.ca) in the Department of Surgery. The **Ontario Chiropractic Association** has provided outstanding leadership in co-funding this CIHR/CCRF partnered award and the entire OCA Board of Directors is to be commended. Dr. Erwin's position is funded by the OCA, the CCRF, and the CIHR and represents a \$300,000 investment in chiropractic research.

Dr. Jill Hayden DC, PhD(c) becomes the 3rd CIHR/CCRF Chiropractic Research Chair as of January 1, 2007 and she is currently at the University of Toronto (Jill.Hayden@uhn.on.ca). Her position is funded by CCRF and CIHR with potentially \$550,000 to start.

Dr. Jean-Sébastien Blouin DC, PhD took up Canada's 1st CCRF Professorship in Spine Biomechanics and Human Neurophysiology at the University British Columbia on April 1, 2006 (jsblouin@interchange.ubc.ca). This position is funded by the CCRF, the British Columbia College of Chiropractors, the British Columbia Chiropractic Association and UBC with over \$500,000 as an initial investment.

Dr. Martin Descarreaux DC, PhD has been named to the FRCQ/Platinum System Chiropractic Research Chair at UQTR where he is a full-time professor. "The University considers that the creation of the Chair will constitute an important step in the development of the chiropractic profession". The Chair was inaugurated August 15, 2006.

Next CCRF/CIHR Competition

Three NEW CCRF/CIHR university-based Chiropractic Research Chairs are scheduled to come on stream shortly. We will know which researchers and which universities in June 2007. This represents potentially, a \$1.6 million dollar investment in chiropractic researchers.

Next CCRF Professorship

In the coming months, CCRF will hopefully be announcing a new opportunity for chiropractic researchers - a 2nd CCRF Professorship at a university in Western Canada. For further information contact Dr. Allan Gotlib (algotlib@ccachiro.org)

Center of Research Expertise in Improved Disability Outcomes (CREIDO)

The new Centre of Research Expertise in Improved Disability Outcomes (CREIDO) is based at Toronto Western Hospital (TWH) University Health Network and funded by the Workplace Safety and Insurance Board in Ontario (WSIB). It will focus on the diagnosis, treatment and rehabilitation of chronic musculoskeletal pain and its related disability. The Center's Director is Dr. J. David Cassidy and the co-principal investigators include Dr. Pierre Côté and Dr. Simon Carette. Dr. Cassidy is a Senior Scientist at TWH Research Institute and a Professor in Epidemiology at the University of Toronto. Dr. Côté is a Scientist at the Institute for Work and Health (IWH). Dr. Carette is the Head of Rheumatology at University Health Network. Dr. Jill Hayden has joined the group as Research Scientist.

In addition to research into treatment and rehabilitation, CREIDO will address return to work practices and interventions, the organization and design of work, and the interactions between injured workers and health care providers, the workplace, and the WSIB. CREIDO's primary objective is the development and testing of interventions that will return workers with musculoskeletal pain to safe and sustainable work.

Ongoing Stroke Study

In a collaborative initiative, two leading principal investigators are undertaking a population based case-crossover study and a case control study to answer the question – Are chiropractic services associated with an increased risk of stroke?

Dr. J. David Cassidy DC, PhD, Dr Med Sc is a Professor of Epidemiology at the University of Toronto and a Senior Scientist in the Division of Outcomes and Population Health at the Toronto Western Hospital. Dr. Pierre Côté DC, PhD is an Assistant Professor of Epidemiology at the University of Toronto and a Scientist at the Institute for Work and Health. Co-investigators include Dr. Sue Bondy from the University of Toronto, Dr. Sheilah Hogg-Johnson from the Institute for Work and Health and Dr. Frank Silver (neurologist) from the University Health Network.

The research team will address the limitations of two prior epidemiological studies of the risk of stroke following neck manipulation (Rothwell et al 2001, Smith et al 2003) by using a design (case-crossover study) that allows for a more efficient control of confounders. The study will also benefit from a larger sample size and clinically relevant case definitions for stroke. The study will rely on CIHI data to identify relevant strokes and determine who visited chiropractors. The project has undergone an Ethics Review at the University of Toronto. The Ministry of Health and Long Term Care has provided funding of approximately \$360,000 and it is estimated that the project will take 3 years to complete.

RCT back surgery

Dr. Gord McMorland DC, who is affiliated with the University of Calgary Spine program (faculty of medicine, division of neurosurgery), is the principle investigator of a randomized trial comparing back surgery to chiropractic for LBP/sciatica secondary to herniated lumbar disc. The project title is: "Comparison of Treatment Outcomes and cost-effectiveness between chiropractic and back surgery for low back pain and sciatica secondary to herniated lumbar disc". It is funded by FCER. Co-investigators include Esther Suter, PhD, R.J Hurlbert MD, PhD, S.J. du Plessis MD, and S. Casha MD, PhD.

Patients presenting to the Foothills Medical Centre Spinal Neurosurgical Clinic deemed candidates for spinal decompression surgery were asked to participate in the study. The primary outcomes are low back disability, pain, direct health care costs and health care utilization. There are no controlled studies comparing patient outcome and treatment cost between chiropractic care and back surgery. This study is examining an important health issue but has also served to act as a working model demonstrating how complementary therapies can work in conjunction with allopathic medicine.

Carlo Ammendolia

Dr. Carlo Ammendolia recently received his PhD from the University of Toronto and has been appointed to several new positions. He is *Clinical Epidemiologist* at Rehabilitation Solutions, University Health Network in Toronto, *Scientific Associate* in the Division of Outcomes & Population Health at the Toronto Western Hospital Research Institute, and also *Clinical Epidemiologist* at the new Centre for Research Expertise in Improved Disability Outcomes (CREIDO).

David Cassidy and Pierre Côté

Drs. Cassidy and Côté (University of Toronto) have been awarded a research infrastructure grant from the WSIB to establish the Centre for Research Expertise in Improved Disability Outcomes (CREIDO) at the Toronto Western Hospital at the University Health Network. The award is worth \$2,000,000 over five years and will help to establish a research program focused on musculoskeletal disability in injured workers. Although the grant will be held at the University Health Network, it also includes the Institute for Work & Health, the Toronto Rehabilitation Institute and the new Northern Ontario School of Medicine as institutional partners. Dr. Cassidy will serve as the Centre's Director and Drs. Pierre Côté and Simon Carette are co-principal investigators.

Pierre Côté

Effective September 1, 2006, Dr. Pierre Côté has accepted an appointment as Affiliate Scientist in the Division of Outcomes and Healthcare Research at the Toronto Western Research Institute, University Health Network and as a Senior Scientist at Rehabilitation Solutions in the Musculoskeletal Health and Arthritis Program, at the Toronto Western Hospital. The University Health Network is the largest academic health network in Canada. Dr. Côté's work will focus on the rehabilitation and health outcomes of patients with injuries arising from occupational and motor vehicle collisions.

Martin Descarreaux

Dr. Descarreaux has been invited to join the Editorial Board of the Journal of the Canadian Chiropractic Association. He has also been awarded the newly created Chair in Chiropractic Research at the UQTR. A \$250,000 operating grant and a \$230,000 equipment fund was attributed to the Chair. The "Fondation de Recherche Chiropratique du Québec and Platinum Systems, a firm specializing in clinical management software, are both contributing to finance the Chair".

Mark Erwin

Dr. Mark Erwin (University of Toronto) was recently appointed as Scientist at the Arthritis & Autoimmunity Research Centre (AARC) University Health Network. As well, he recently delivered a **key note** lecture at the AO Spine "Degenerative Spine Symposium" in Montreal. His lecture was entitled "Regenerative Medicine Applications for Degenerative Disc Disease: Pipedream or Reality?" The audience included about 40 spine surgeons.

Jill Hayden

Dr. Jill Hayden has been appointed a Research Scientist at the Centre of Research Expertise in Improved Disability Outcomes (CREIDO) and Scientific Associate in the Division of Outcomes and Population Health at the Toronto Western Research Institute at the University Health Network.

We anticipate her appointment to the position of Assistant Professor, Department of Health Policy, Management and Evaluation, University of Toronto in December. In addition to all this, she has been awarded the 3rd Chiropractic Research Chair position in the CCRF/CIHR partnered program.

Greg Kawchuk

Dr. Greg Kawchuk (University of Alberta) and Dr. Yong Hu (University of Hong Kong) were awarded the McNab/Larocca Fellowship from the International Society for the Study of the Lumbar Spine. The award will support Dr. Hu as a visiting scientist to the Common Spinal Disorders Laboratory for a period of one year to study how regional muscular activity is related to spinal stiffness.

Jeff Quon

Dr. Jeff Quon (University of British Columbia) was the recent recipient of the Hy and Lee Schechter Scholarship: Scholarships (totalling \$2,200) have been endowed in honour of Hy and Lee Schechter for students entering the final year of graduate studies in the Department of Health Care and Epidemiology who combine academic excellence with contributions to the University and to improvements in health in communities. The award is made on the recommendation of the Department of Health Care and Epidemiology. Dr. Martin Schechter is Professor and Head of the Department of Health Care and Epidemiology at the University of British Columbia, a Canada Research Chair in HIV/AIDS and Urban Population Health, and the newly appointed Chief Scientific Officer for the Michael Smith Foundation for Health Research.

Gabrielle van der Velde

Dr. Gabrielle van der Velde received a 'New Investigator Award for Outstanding Paper Presentation' at the International Society for Quality-of-Life Research's Annual Conference in San Francisco for her poster entitled: '*Item-response theory analysis of the Neck Disability Index*'. Her co-investigators are: Anjali Mazumder (University of Oxford), Dorcas Beaton (Institute for Work & Health), Eric Hurwitz (University of Hawaii), Gert Bronfort (Northwestern Health Sciences University) and Roni Evans (Northwestern Health Sciences University).

Recent Papers Published in 2006

Blouin JS, Inglis JT, Siegmund GP. Startle responses elicited by whiplash perturbations. *J Physiol* 2006;573(3):857-867.

Bhandari M, Busse JW, Devereaux PJ, Montori VM, Swiontkowski M, Tornetta III P, Einhorn TA, Khera V, Schemistch EH. Randomized trials and meta-analyses increase citation rates of major orthopaedic journals. (Accepted) *Can J Surgery*.

Bhandari M, Busse JW, Hanson BP, Leece P, Ayeni OR, Schemitsch EH. The impact of psychological distress on quality of life in orthopaedic trauma patients: a prospective observational study. (Accepted) *Can J Surgery*.

Boudreau LA, Busse JW, McBride G. Chiropractic services in the Canadian Armed Forces: a pilot project. *Military Medicine*. 2006; 171 (6): 572-6.

Busse JW, Heetveld MJ. Critical appraisal of the orthopaedic literature: therapeutic and economic analysis. *Injury*. 2006; 37(4): 312-20.

Ferreira-González I, Permanyer-Miralda G, Busse JW, Bryant DM, Montori VM, Alonso-Coello P, Walter SD, Guyatt GH. Rational for Using Primary Composite Endpoints in Clinical Trials: A Systematic Review. (Accepted) *J Clinical Epidemiology*.

Sung L, Beyene J, Hayden J, Nathan PC, Lange B, Buchanan G, Tomlinson GA. A Bayesian meta-analysis of prophylactic granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor in children with cancer. *Am J Epidemiology*. 2006;163:811-817.

Guzman J, Hayden J, Furlan A, Cassidy JD, Loisel P, Fannery JF, Gibson J, Frank JW. Key factors in back disability prevention: a consensus panel on their impact and modifiability. (In press) *Spine* 2006.

Winston P, Awan R, Cassidy JD, Bleakney R. Self report, clinical exam and ultrasound of the snapping hip syndrome in elite ballet dancers. (In press) *Am J Sports Med* 2006.

Ferrari R, Carroll LJ, Cassidy JD. Reduced or painful jaw movement after Traffic Injuries: A Population-Based Study. (In press) *J Am Dental Assoc* 2006.

Dufton JA, Kopec J, Wong H, Cassidy JD, Quon J, Mcintosh G, Koehoorn M. Prognostic factors associated with minimal improvement following acute whiplash-associated disorders. (In press) *Spine* 2006.

Carroll LJ, Cassidy JD, Côté P. Frequency, timing and course of depressive symptomatology after whiplash. *Spine* 2006;31:E551-E556.

Holm L, Carroll LJ, Cassidy JD, Ahlbom A. Factors influencing neck pain intensity in whiplash-associated disorders. *Spine* 2006;31:E98-E104.

Carroll LJ, Cassidy JD, Côté P. The role of pain coping strategies in prognosis after whiplash injury: passive coping predicts slowed recovery. (In press) *Pain* 2006.

Cassidy JD, Carroll LJ, Côté P, Frank J. Does multidisciplinary rehabilitation benefit whiplash recovery? Results of a population-based incidence cohort study. (Accepted) *Spine* 2006.

Van Eerd D, Côté P, Beaton D, Hogg-Johnson S, Vidmar M, Kristman V. Related Articles, Links Capturing cases in workers' compensation databases: The example of neck pain. *Am J Ind Med*. 2006;49:557-68.

Carroll LJ, Cassidy JD, Côté P. Depression is common after whiplash injury: The incidence, timing and course of depression after whiplash. *Spine*. 2006. 31:E551-E556.

Frank J, Cullen K and the IWH Ad Hoc Working Group (Breslin C, Cole D, Côté P, Franche R-L, Mustard C, Reardon R, Shannon H, Sinclair S.) Preventing injury, illness and disability at work: A view from Canada. A discussion paper for the occupational health and safety community. *Scandinavian J Work Environment and Health*. 2006. 32(2):160-167.

Kosny A, Franche RL, Pole J, Krause N, Côté P, Mustard C. Early healthcare provider communication with patients and their workplace following a lost-time claim for an occupational musculoskeletal injury. *J Occupational Rehabilitation*. 2006. Vol.16(1) 25-37.

Hayden JA, Côté P, Bombardier C. Evaluation of the quality of prognosis studies in systematic reviews. *Ann Int Med*. 2006;144:427-437.

Dagenais S, Ogunseitán O, Haldeman S, Wooley JR, Newcomb RL. Side effects and adverse events related to intraligamentous injection of sclerosing solutions (Prolotherapy) for back and neck pain: a survey of practitioners. *Arch Phys Med Rehabil*. 2006 Jul;87(7):909-913.

Dagenais S, Ogunseitán O, Haldeman S, Wooley JR, Zaldivar F, Kim RC. Acute toxicity pilot evaluation of Proliferol in rats and swine. *Int J Toxicol*. 2006 May-Jun;25(3):171-81.

Descarreaux M, Dugas C, Lalanne K, Vincelette M, Normand MC. Learning spinal manipulation: the importance of augmented feedback relating to various kinetic parameters. *Spine J*. 2006 Mar-Apr;6(2):138-45.

Erwin WM, Inman RD. Notochord cells regulate intervertebral disc chondrocyte proteoglycan production and cell proliferation. *Spine* 2006; 31(10): 1094-1099.

Erwin WM, Ashman K, O'Donnell P, Inman RD. Nucleus pulposus notochord cells secrete connective tissue growth factor and upregulate proteoglycan expression by intervertebral disc chondrocytes. *Arthritis and Rheumatism*. (In press) 2006.

Harrison DE, Janik TJ, Cailliet R, Harrison DD, Normand MC, Perron DL, Ferrantelli JR. Validation of a computer analysis to determine 3-D rotations and translations of the rib cage in upright posture from three 2-D digital images. *Eur Spine J*. 2006 Mar 18.

Mayrand N, Fortin J, Descarreaux M, Normand MC. Diagnosis and management of post-traumatic piriformis syndrome: a case study. *J Manip Physiol Ther*. 2006 Jul-Aug;29(6):486-91.

Kawchuk GN, Liddle TR, Fauvel OR, Johnston C. The accuracy of ultrasonic indentation in detecting simulated bone displacement: a comparison of three techniques. *J Manip Physiol Ther*. 2006. Feb;29(2):126-33.

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Lehman GJ, MacMillan B, MacIntyre I, Chivers M, Fluter M. Shoulder muscle EMG activity during push up variations on and off a Swiss ball. (Accepted) *BMC Dynamic Medicine* 2006.

Lehman GJ. Resistance training for performance and injury prevention in golf. *J Can Chiropr Assoc*. 2006; 50(1) 27-42.

Lehman GJ. Trunk and hip muscle recruitment patterns during the prone leg extension following a lateral ankle sprain: A prospective case study pre and post injury. *Chiropr Osteo*. 2006 Feb 27;14:4.

van der Velde G, van Tulder M, Côté P, Hogg-Johnston S, Aker P, Cassidy JD, and Members of the Scientific Secretariat of the Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders. The sensitivity of systematic review results to methods used to appraise and incorporate trial quality into data synthesis: A comparison of results and conclusions derived from a Cochrane Back Review Group Guidelines review and a best-evidence synthesis. (Accepted) *Spine* 2006.

Ammendolia New PhD University of Toronto

Carlo Ammendolia DC, PhD is now a clinical epidemiologist at Rehabilitation Solutions in Toronto and also at CREIDO. He is also a Scientific Associate in the Division of Outcomes & Population Health at the TWH Research Institute. Among the many different projects he is already involved with, these are particularly noteworthy:

Cochrane systematic review on physical examination and the diagnosis of herniated lumbar disc. (Van der Windt D, Verhagen A, Ammendolia C, Bouter L).

Cochrane systematic review on radiographic finding and non-specific LBP. (Ammendolia C, van Tulder M, Koes B, Bouter L).

Systematic review on the use of acupuncture for LBP. (Ammendolia C, Furlan A).

Front Line Back Pain: the prevalence of sacroiliac joint disease in a primary back pain cohort. (O'Shea F, Salonen D, Ammendolia C, Hsu W, Peterson C, Inman RD).

Characteristics of patients with sacroiliitis among a cohort of LBP patients. (Ammendolia C, O'Shea F, Hsu W, Peterson C, Inman RD).

Radiographic features of a cohort of patients presenting with LBP. (Peterson C, Hsu W, Ammendolia C, O'Shea F, Inman RD).

Agreement among medical and chiropractic radiologists for the radiographic assessment of the sacroiliac joint among a cohort of LBP patients. (Ammendolia C, Hsu W, Peterson C, Salonen D, O'Shea F, Inman RD).

Blanchette Masters candidate Université du Québec à Trois-Rivières

Marc-André Blanchette DC is a masters student in Kinesiology at the Université du Québec à Trois-Rivières under the supervision of Dr Martin Normand DC, PhD. He is studying the effect of soft tissue techniques for the treatment of work related disorders (lateral epicondylitis). The Fondation en recherche chiropratique du Québec currently funds Dr. Blanchette.

Blouin UBC Professorship University of British Columbia

Jean-Sébastien Blouin DC, PhD has recently been appointed by UBC to the CCRF Professorship in Spine Biomechanics and Neurophysiology as an Assistant Professor in the School of Human Kinetics, University of British Columbia. In 2006, he has published research articles in Spine, Journal of Biomechanical Engineering and in the Journal of Physiology. This latter publication entitled 'Startle responses elicited by whiplash perturbations' was the first paper to suggest that whiplash injuries could be caused by an over-reaction (startle response) to the collision. As the recipient of the ICCP Outstanding Young Investigator, Dr. Blouin visited the Prince of Wales Medical Research Institute, Sydney (Australia), to collaborate with Professors Simon Gandevia and Peter Nickolls on research projects investigating the presence of motoneuron plateau potentials in persons suffering from Spinal Cord injuries. At UBC, Dr. Blouin is involved in a series of experiments investigating vestibulospinal connectivity in humans, whiplash injuries as well as the neural control of the various neck muscles. His future work will look at how musculoskeletal pain alters the neurophysiology of the head, neck and lower limbs.

Boucher **Université du Québec at Trois-Rivières**

Pierre Boucher DC, PhD is professor at Université du Québec at Trois-Rivières and maintains a part time practice in Cap-Santé, Québec. He is presently researching the effects of osteoarthritis of the cervical spine on postural stability. A pilot project has been completed and a scientific article will be submitted shortly to a peer reviewed journal. The second phase of this project will begin this fall with the collaboration of different researchers at UQTR.

Brake-Patten **New Masters Recipient** **Memorial University of Newfoundland**

Debbie Brake-Patten DC, M.Ed, received her Masters of Education degree in post-secondary education from the Memorial University of Newfoundland in May 2006. The emphasis of her research focused on the chronic low back pain sufferer and how they manage their pain conservatively outside the practitioner's office. Her research study looked at the existing exercise programs and found that while many exercise programs exist, the average low back pain sufferer continues to have difficulty with the simplest exercise programs. Her research determined that the need exists for the development of a pain-specific low back exercise program for the chronic low back pain sufferer.

Busse **PhD candidate** **McMaster University**

Jason Busse DC, MSc, is a PhD student in clinical epidemiology and biostatistics at McMaster University. His supervisor is Dr. Gordon Guyatt. In the last year he has published 13 peer-reviewed papers including the results of a pilot study exploring satisfaction with chiropractic services in the military (*Military Medicine*. 2006; 171[6]: 572-6), a review article on appraising the orthopedic literature (*Injury*. 2006; 37[4]: 312-20), two reviews on the use of composite endpoints in randomized controlled trials (*ACP Journal Club*. 2005; 143[3]: A08; *Br Med J*. 2005; 330: 594-596), a cost analysis of treatment strategies for tibial fractures (*Acta Ortho*. 2005; 76[5]: 705-12), a meta-analysis of bright light therapy and PMS (*Am J Ob Gyn*. 2005; 193 (3): 658-661), a commentary on fusion surgery for low back pain (*CMAJ*. 2005; 173[4]: 365-366), a review on anti-vaccination arguments (*JMPT*. 2005; 28: 367-373), a survey on disclosure of natural product use (*Mayo Clin Proc*. 2005; 80[5]: 616-623), a retrospective review of pediatric and adolescent naturopathic patients (*Pediatrics*. 2005; 115 [3]: e338-e343), and a meta-analysis on the effect of bisphosphonates on periprosthetic bone mineral density after total joint arthroplasty (*J Bone Jt Surg Am*. 2005; 87-A: 293-301).

Cassidy **University of Toronto**

David Cassidy DC, PhD, Dr. Med. Sc. is a Senior Scientist in the Division of Outcomes and Population Health at the Toronto Western Hospital Research Institute. He is a Professor of Epidemiology in the Department of Public Health Sciences in the Faculty of Medicine at the University of Toronto, and also a Professor of Clinical Epidemiology, in the Department of Health Policy, Management and Evaluation, Faculty of Medicine, University of Toronto. Recently he became the Research Director, Rehabilitation Solutions, University Health Network and also the Director, Centre for Research Expertise in Improved Disability Outcomes (CREIDO), University Health Network

Dr. Cassidy has authored over 175 scientific papers in books and journals, including publications in the New England Journal of Medicine, Spine, Pain, Medical Care, Clinical Epidemiology, Accident Analysis and Prevention, the Journal of Rehabilitation Medicine, the Canadian Journal of Public Health and the Scandinavian Journal of Public Health. He was Scientific Secretary for the World Health Organization's Collaborating Centre Task Force on Mild Traumatic Brain Injury and is currently the Scientific Secretary for the Decade of the Bone and Joint 2000-2010 Task Force on Neck Pain.

Côté University of Toronto

Pierre Côté DC, PhD is a Scientist at the Institute for Work and Health in Toronto and an Assistant Professor of Epidemiology in the Department of Public Sciences, Faculty of Medicine at the University of Toronto. Effective September 1, 2006, Dr. Côté is Affiliate Scientist in the Division of Outcomes and Healthcare Research at the Toronto Western Research Institute, University Health Network and Senior Scientist at Rehabilitation Solutions in the Musculoskeletal Health and Arthritis Program, at the Toronto Western Hospital. He also holds an academic appointment at the W.P. Carey School of Business Arizona State University, Tempe, Arizona. He has authored 53 publications to date and made 134 career scientific presentations. Currently he supervises 5 Masters students, (4 are DC's) - Paul Nolet DC – Master's of Public Health, Lakehead University. Mana Rezai DC – Master's of Health Sciences- Epidemiology, University of Toronto. Maja Stuppar DC- Master's of Sciences- Clinical Epidemiology, University of Toronto. Heather Shearer DC – Master's of Science – Institute of Medical Sciences, University of Toronto.

In addition, Dr. Côté carries several new grants.

1. WorksafeBC Koehoorn K, Barer M, Côté P, Hogg-Johnson S, McGrail K, McLeod C. 09/2006-08/2008 (\$178,836.00 CDN). Investigating outcomes for musculoskeletal surgeries among injured workers in BC.
2. Workplace Safety and Insurance Board (WSIB) Franche R-L, Breslin C, Côté P, Frank J, Hepburn G, Hogg-Johnson S, Mustard C, Reardon R. 03/2006-03/2008 (246,674 CDN). Recurrence and persistence of work absence: Understanding their risk factors, and long-term impact on workers' health, work limitations, and non-work role participation.
3. Workplace Safety and Insurance Board (WSIB) Cassidy JD, Côté P (Co-PI), Carette S et al. 07/2005-06/2010 (2,000,000 CDN). Centre of research expertise in improved disability outcomes (CREIDO).
4. Canadian Institute of Health Research (CIHR) to: Davis A, Badley E, Beaton D, Côté P, Flannery J, Gignac M, Hogg-Johnson S, Mohamed N, Schemitsch E, Streiner D. 10/2005-09/2009 (624,224.00 CDN). Outcome measurement: The importance of time.
5. Canadian Institute of Health Research (CIHR) to: Chipman ML, Belavance F ; Bergeron J, Boivin DB, Côté P; Persaud BN ; Sennah K. 03/2006-02/ 2007 (\$89,455). Driver fatigue in traffic crashes: Biological and epidemiological aspects for prevention

Crowther EdD candidate D'Youville College

Ted Crowther DC has a Masters of Science in Health Services Administration. His thesis compared the cost-utility of chiropractic and pharmacologic management of chronic low back pain in adults. He is now completing his Doctor of Education (EdD) in Health Policy. In July of 2006 he successfully completed the comprehensive examination component of his program of study to become a doctoral candidate. Building on his interests in cost-effectiveness of treatments for low back pain, his dissertation considers linear programming models and simplex methodology to establish intervention inclusion and pricing within programs of care. He continues to remain active in research having published a number of papers in JCCA and Spine within the last year.

Dagenais University of Ottawa

Simon Dagenais DC, PhD is a Scientist in Epidemiology and Biostatistics at the Chalmers Research Group in the CHEO Research Institute, and holds faculty appointments as an Assistant Professor with the Departments of Pediatrics and Epidemiology & Community Medicine at the University of Ottawa. As a Scientist, Simon is pursuing a research and teaching agenda in clinical epidemiology, CAM, and spinal health. To facilitate clinician-initiated research at CHEO, Simon is a consulting methodologist and helps hospital investigators refine research questions, choose the appropriate study type, and develop protocols for surveys, clinical trials, and systematic reviews. He recently published two papers, one in Arch Phys Med Rehabil and one in Int J Toxicol.

D'Astolfo Masters candidate University of Toronto

Connie D'Astolfo DC is a masters candidate in Health Policy Management and Evaluation at the University of Toronto, faculty of medicine. Her thesis topic involves investigating the prevalence and impact of back pain on HRQOL measures in the continuing complex care population of Ontario. Dr. D'Astolfo has recently accepted a position at the Ontario Ministry of Health and Long Term Care (MOHLTC) as project lead and senior policy analyst. Her work at the ministry involves evaluating and developing programs for the geriatric population at the LTC Homes Branch. She has recently published a retrospective case review study in BMC Geriatrics, "A record review of reported musculoskeletal pain in an Ontario long term care facility."

Descarreaux Research Chair Université du Québec at Trois-Rivières

Martin Descarreaux DC, PhD is a professor at the UQTR teaching clinical biomechanics. In collaboration with the Department of Kinesiology, he is currently studying the effect of muscular fatigue and pain on the control of head and neck movement. In collaboration with two graduate students, he is also studying the effects of augmented feedback on the learning of lumbar and cervical spinal manipulation. Finally, he is pursuing his research on LBP and is currently conducting a study on low back muscle fatigue and neuromuscular control of lumbar stability. Dr. Descarreaux was recently appointed to the Editorial Board of JCCA. In addition, Dr. Descarreaux has just been awarded the newly created Chair in Chiropractic Research at the UQTR.

Erwin

Research Chair University of Toronto

Mark Erwin DC, PhD is Canada's 2nd university-based Chiropractic Research Chair. He is an Assistant professor in the Division of Orthopedic Surgery, University of Toronto, and Toronto Western Hospital. Dr. Erwin's work concerns the biology of the intervertebral disc. He has determined that soluble factors produced by notochord cells stimulate chondrocytes to produce important extra-cellular matrix molecules and proteoglycans integral to the health of the disc nucleus; specifically the important proteoglycan aggrecan. Notochord cells produce connective tissue growth factor (CTGF). Dr. Erwin is the first to ever report the nature of the soluble factors produced by notochord cells, specifically including CTGF.

Dr. Erwin has two very significant papers recently published. Erwin WM, Inman RD. Notochord cells regulate intervertebral disc chondrocyte proteoglycan production and cell proliferation. *Spine* 2006;31(10):1094-1099 and Erwin WM, Ashman K, O'Donnell P, Inman RD. Nucleus pulposus notochord cells secrete connective tissue growth factor and upregulate proteoglycan expression by intervertebral disc chondrocytes. *Arthritis and Rheumatism* 2006 (In Press). You just have to read the entirety of both papers to understand the revolutionary impact his research will have on the future treatment of degenerative disc disease.

Dr. Erwin recently delivered a **key note** lecture at the AO Spine "Degenerative Spine Symposium" in Montreal. His lecture was entitled "Regenerative Medicine Applications for Degenerative Disc Disease: Pipedream or Reality?" The lecture clearly created a great deal of "buzz" on the part of researchers, clinicians and the medical technology sector who were in attendance at this lecture. The meeting was chaired by Dr. Michael Fehlings (Professor of Neurosurgery, Krembil Chair in Neural Repair and Regeneration, McLaughlin Scholar in Molecular Medicine University of Toronto, Medical Director of the Krembil Neuroscience Center, and Head Spine and Spinal Cord Injury Program at Toronto Western Hospital, University Health Network) who was enthusiastic in his congratulations to Dr. Erwin for the high quality of his presentation. Dr. Erwin delivered an outstanding invited lecture that consisted of a review of degenerative disc biology, the current state of the art for the treatment of degenerative disc disease but more interestingly showcasing his exciting research into the role of notochordal cells and CTGF in disc repair and regeneration. The audience included about 40 spine surgeons (neuro and orthopaedic, mainly North American audience). Erwin's work as a chiropractic researcher is generating serious discussions for creating a "Disc Biology Research Group" centered at Toronto Western Hospital and the University of Toronto. He currently collaborates with clinicians and scientists both at the University of Toronto, University Health Network, Ohio State University, University of Western Ontario and the Australian Proteome Analysis Facility.

Forbes

New Masters Recipient University of British Columbia

Diane Forbes received her Masters degree in Economics from the University of British Columbia where her studies focused on the economic evaluation of health services and technologies (i.e. cost benefit, cost effectiveness, cost utility analysis), health care resource allocation and government expenditure theory - theories underlying the provision of public goods such as health care.

As of June 5, 2006 Dr. Forbes is now working in Ottawa in a position that is a mix between strategic economic and policy analysis in the Life Sciences Branch of Industry Canada. She works across ministries to help promote the Health Care Industry, from University funding for scientific / pop health / health and biotechnologies research to spin offs, and liaises with other Ministries including Health Canada to ensure a regulatory environment that embraces innovation. She has co-authored two papers on service utilization, one in Eye Health and a second in ER use by the institutionalized elderly, and has provided strategic analyses to provincial health service organizations in British Columbia this past year. She is also a co-investigator on a study funded by the Canadian Patient Safety Institute which will examine the prevalence of Adverse Events in Long term care over the next year.

Gauthier Masters candidate Université du Québec à Trois-Rivières

Jean-Luc Gauthier DC is pursuing post-graduate studies in Kinesiology at the Université du Québec à Trois-Rivières under the supervision of Martin C Normand and Martin Descarreaux. The specific aim of his research is to define the level of expertise in a lumbar spine manipulation while measuring various technical parameters related to force production and global motor control during spinal manipulations.

Gelley Masters candidate University of Manitoba

Geoff Gelley DC, FCCSS(C) is a Masters of Science student in Medical Rehabilitation at the University of Manitoba. His research is under the supervision of Brian MacNeil, PhD. Dr. Gelley's research thesis will first examine the use of a triaxial accelerometer to better quantify the high velocity/low amplitude dynamics of spinal manipulation. The second part of his study will be small animal-based to determine the neurophysiologic effects of spinal manipulation on the CNS as pertains to the production of Beta-endorphins, C-fos and MAP kinases.

Grod Master student Lakehead University

Jaroslav P. Grod DC, FCCS(C) is a Master of Public Health student in the Faculty of Professional Schools at Lakehead University in Thunder Bay, Ontario. The direction of his research thesis is in the area of medical errors as they relate to the safety of patients in our healthcare system. His thesis supervisor is B. Kim Humphreys, DC, PhD.

Hayden PhD candidate and Research Chair University of Toronto

Jill Hayden DC is a PhD candidate at the Institute for Work and Health and the University of Toronto. She will be defending her thesis in October. Her thesis is "Development and testing of a comprehensive conceptual model to understand the prognosis and course of low back pain". In March she had an article published in the prestigious journal Annals of Internal Medicine, "Hayden JA, Côté P, Bombardier C. Evaluation of the Quality of Prognosis Studies in Systematic Reviews. Annals of Internal Medicine. 2006;144:427-437". She recently gave a keynote lecture on systematic reviews of prognosis at the International Low Back Pain Forum, Amsterdam, the Netherlands, and has had her work accepted for presentation at the upcoming Cochrane Colloquium in Dublin, Ireland. Dr. Hayden was recently awarded the 3rd Chiropractic Research Chair in the CCRF/CIHR partnered program and takes up the Chair in January 2007 at the University of Toronto.

Lawson PhD candidate University of Calgary

Doug Lawson DC is a PhD candidate in Medical Education at the University of Calgary. Due to health reasons, he is on a leave of absence from that program. His dissertation topic is “The robustness of the many-facet Rasch model to violations of the assumption of local independence of items”. Over the last year he has presented research locally to the Medical Education Seminar Series at the University of Calgary, and the Ottawa Conference on Medical Education in New York. He has also had articles published in the Journal of the Canadian Chiropractic Association, the Journal of Chiropractic Education, and the Journal of Manipulative and Physiological Therapeutics over the last year. He continues to do joint research in the medical education field with the Canadian Chiropractic Examining Board, chiropractic specialties, and educational institutions.

Lehman

Greg Lehman is currently in private practice and an Assistant Professor in the Graduate Education and Research Department at CMCC. During the past year he has published 7 peer reviewed papers investigating the biomechanics of common rehabilitation and resistance exercises. Along with continuing his exercise and sport biomechanics research Greg will be establishing collaborations with other CMCC researchers to develop two new research streams. The first is the development of a grant submission to document the influence of lumbar and cervical spinal manipulation and soft tissue therapy on proximal and distal joint muscle onset timing and co-ordination. Greg’s last stream of work will explore his previous area of research documenting joint kinematics during various tasks. Greg with colleagues will be investigating the influence of various factors (fatigue, acute stretching, therapist skill) on joint kinematics during a variety of tasks (i.e. 3D hip/knee movements during running, 3D spine movements during the golf swing, 3D cervical spine kinematics during spinal manipulation).

Lopes Masters candidate York University

Melanie Lopes is a resident in the Sports Sciences Residency Program (SSRP) offered by the College of Chiropractic Sports Sciences (CCSS) and also a masters candidate in Kinesiology at York University. Her masters supervisor is Dr. Peter Keir, PhD who is an associate professor in the School of Kinesiology and Health Science at York University, and her residency mentor is Dr. Robert Gringmuth DC, FCCSS(C), FCCRS(C). The focus of her research is carpal tunnel syndrome, looking at the anatomical parallels between occupational and sports injuries using diagnostic ultrasound and MRI.

Mazar Masters candidate University of Calgary

Kim Mazar DC is a masters student in the Department of Community Health Sciences at the University of Calgary under the supervision of Dr. Peter Harasym, PhD. Her research is focusing on the Analytical vs Non-Analytical Basis of Clinical Reasoning. She has also been working with the curriculum development committee for the Doctor of Chiropractic Program at Mount Royal College and would like to pursue a career in teaching.

Murphy Masters candidate Queen's University

Carol Murphy DC is a masters candidate in Biomechanics at Queen's University under the direction of Dr. Joan Stevenson PhD with a research focus on children's postures while working at adult computer stations. Her research is funded by the Ontario Chiropractic Association.

Nolet Masters candidate Lakehead University

Paul Nolet DC is a Master's of Public Health candidate in the Faculty of Professional Schools at Lakehead University in Thunder Bay, Ontario. He completed his course work in 2006. His thesis, supervised by Dr. Pierre Côté, focuses on the association between a history of neck injury in a traffic collision and chronic neck pain. Fellowship funding for the thesis has been awarded by the Foundation for Chiropractic Education and Research.

Normand Université du Québec à Trois-Rivières

Martin C. Normand DC, PhD is a full time professor at Trois-Rivières University since 1985. He received his PhD in neurobiology from the faculty of medicine of Laval University in Québec. He is currently director of the chiropractic department at UQTR. He is also responsible for the research group called "Laboratoire de recherche sur les affections vertébrales" and member of the new Research Chair (Chair holder: Dr. Martin Descarreaux). He is currently conducting research in three different fields. The first project is on evaluation and treatment of whiplash patients (with Dominique Mailhot master's student). The second project is on the evolution of posture between 5 and 90 years old. In this project over 4400 posture profiles were analysed (with Marie Claude Lehoux and Jean François Proteau master's students). Finally a new research will quantify the effect of instrument-assisted soft tissue mobilisation for treatment of epicondylitis (with Marc André Blanchette master's student).

Piché PhD candidate University of Montreal

Mathieu Piché DC is a PhD candidate in neurological science in the Faculty of Medicine at the University of Montreal. He is studying functional imaging of the spinal mechanisms involved in pain and pain modulation and developing spinal fMRI of the lumbo-sacral spinal cord in combination with electrophysiological methods to investigate pain processes in normal human subjects. In July 2005, Dr. Piché was awarded a prestigious CIHR Fellowship from the Clinical Research Initiative/Institute of Gender and Health. One of only six recipients, this 4 year award will allow Dr. Piché to continue his research on the neurophysiological mechanisms of chronic pain with Dr. Pierre Rainville PhD and Dr. Mickael Bouin MD, PhD at the University of Montreal.

Quon PhD candidate University of British Columbia

Jeff Quon DC is a PhD candidate in the Department of Health Care and Epidemiology at the University of British Columbia. He is studying a prospective cohort of surgically treated lumbar disc patients at Vancouver General Hospital (VGH), and documenting both the determinants of waiting time, and the effect of waiting time on clinical outcomes following surgical lumbar discectomy.

As well, he is examining the temporal trends and small area variations in surgical rates, and the determinants of access to surgical discectomy in British Columbia. This research will help to identify areas of potential under- (or over-) servicing, which may in turn influence the future reallocation of health care resources by policymakers to different communities in BC. His PhD supervisor, Dr. Martin Schechter, is Head of the Department of Health Care & Epidemiology in the Faculty of Medicine and is a Canada Research Chair in Urban Population Health. His thesis supervisor, Dr. Adrian Levy, is an Associate Professor in the Department of Health Care and Epidemiology, a BC Michael Smith Foundation for Health Research Senior Scholar, and a CIHR New Investigator.

Raymond Masters candidate Université du Québec a Trois-Rivières

Jean Raymond BSc, DC is a masters student in Kinesiology at Université du Québec a Trois-Rivières under the supervision of Dr Marin Descarreaux DC, PhD. He is also a teaching assistant in clinical biomechanics and will be involved in the physical activity and chiropractic course. He was co-author in “Kinetic Analysis Of Expertise in Spinal Manipulative Therapy Using an Instrumented Manikin” published in Journal of Chiropractic Medicine, spring 2005. His research interests include the field of rehabilitation, posture and exercises. His study will focus on the effects of manipulation and exercises on multiple outcomes related to chronic neck pain of mechanical origin. His study will attempt to shed more light on a musculoskeletal condition commonly treated in chiropractic clinic. This project is funded by the Fondation Chiropratique du Québec and Dr Raymond also received a grant from the Fondation Chiropratique du Québec and by the Fonds de Recherche Université du Québec a Trois-Rivières.

Rezai Masters candidate University of Toronto

Mana Rezai DC, MHSc candidate is completing her MHSc in Community Health and Epidemiology in the Department of Public Health Sciences at the University of Toronto. She is also continuing her work at the Institute For Work & Health as a research associate and summer practicum student. Her current project, supervised by Dr. Pierre Côté, is examining the association between grades of neck pain and health-related quality of life.

Richer Masters recipient Laval University

Nadia Richer DC, MSc, has completed her masters degree. Her work was supervised by Dr Martin Simoneau PhD, at the Groupe de Recherche en Analyse du Mouvement et Ergonomie (GRAME) in the kinesiology division at Laval University. Dr. Richer’s work focused on the effect of sensory deprivation on postural stability in pre-op scoliotic patients and she was funded by the Fondation Chiropratique du Québec.

Roy PhD candidate Université du Québec à Montréal

Richard Roy, DC, MSc, received his MSc in kinanthropology (major neurokinetic) in September 2005 from the Université du Québec in Montréal. Currently he is studying for a PhD in biology. His thesis projects (3) involve an analysis of the effect of a chiropractic adjustment (traditional and instrument adjusting) on thermometry of the spine, biological markers (pro and anti inflammatory cytokines), C reactive protein, near-infrared spectrometry and heart rate variability. The projects have been presented and accepted. The last project should begin in October 2006 or as soon as his synthesis examination is completed.

Shearer Masters candidate University of Toronto

Heather Shearer DC will begin her Master's of Sciences in the Institute of Medical Science at the University of Toronto in September 2006. This program provides opportunities for multidisciplinary research. Heather's thesis will be in a clinically oriented environment. She will be supervised by Drs. Pierre Côté and John Frank and will be studying prognostic factors for occupational low back pain.

Srbely PhD candidate University of Guelph

John Z. Srbely, DC is a PhD candidate in biophysics/neurophysiology at the University of Guelph, training under the supervision of Consortial member Dr. Jim Dickey, PhD. He received the 2005 CCA Young Investigator Award for his abstract entitled "*Stimulation of Myofascial Trigger Points causes Systematic Physiological Effects*", which was presented at the Canadian Chiropractic Research Symposium in Montreal, September 2005. His research initiatives are aimed at exposing the peripheral and central neuradaptive processes that act to modulate pain and, concurrently, to explore treatment modalities that directly impact these processes. Dr Srbely has been assessing the biophysical effects of ultrasound and recently submitted for publication his paper entitled "*Ultrasound Reduces Trigger Point Sensitivity: Novel Applications in Myofascial Therapy.*" Other studies in progress include an investigation into the effects of central facilitation on trigger point sensitivity as well as a study aiming at characterizing the impact of ultrasound on central pain modulation. He and Dr. Dickey are also jointly investigating whiplash mechanisms using a unique robotic platform. Dr. Srbely will be presenting two abstracts at the upcoming FCER Conference on Chiropractic Research in Chicago, September 2006.

Stuber Masters candidate University of Sheffield

Dr. Kent Stuber was recently appointed to the JCCA Editorial Board. He is currently working on a master's degree in Health and Social Care Research from the University of Sheffield's School of Health and Related Research. His main research focus currently is on projects for his master's degree including an observational study of a chiropractic sports specialist's clinic, a qualitative interview on the experiences and difficulties of treating elite athletes for a chiropractic sports specialist, and a survey on chiropractors' treatment patterns and safety perceptions in the care of pregnant patients. He has completed a systematic review on sacroiliac joint testing that has been submitted, in addition to working on a systematic review with Dr. Shari Wynd. In the past year he has published 2 review articles in the JCCA, one each on plantar fasciitis treatments and prevention strategies for athletic brachial plexus injuries. He has also co-authored an online survey on chiropractors' attitudes toward continuing education in Chiropractic & Osteopathy.

Stuber K, Kristmanson K. Conservative therapy for plantar fasciitis: a narrative review of randomized controlled trials. *J Can Chiropr Assoc* 2006; 50(2): 118-133.

Stuber KJ, Grod JP, Smith DL, Powers P. An online survey of chiropractors' opinions of continuing education. *Chiropractic & Osteopathy* 2005; 13:22.

Stuber K. Cervical collars and braces in athletic brachial plexus injury and excessive cervical motion prevention: a review of the literature. *J Can Chiropr Assoc* 2005; 49(3): 216-222.

Stupar Masters candidate University of Toronto

Maja Stupar DC is a Master's of Sciences candidate in Clinical Epidemiology at the University of Toronto. Her program began July 2006 and she is being supervised by Dr. Pierre Côté for a study on the prognosis of whiplash-associated disorders. She is also continuing to teach in the Clinical Education course at the Canadian Memorial Chiropractic College.

Uchasz

Greg Uchacz DC, FCCSS(C), CSCS in Calgary, is the current President of the CCSS(C). Recently he and Ian Shrier and Dale Macdonald submitted a study to the British Journal of Sports Medicine, comparing changes in jump height and running velocity with and without pre-event high velocity low amplitude manipulation (HVLA). They used 17 elite world class healthy athletes (age range 19-35) and a cross-over study design. Subjects appeared to perform better after HVLA for both CMJ and SPRINT (both average and peak results) but none of the results were statistically significant (p-values ranged from 0.30 to 0.61) Preliminary findings within subgroups suggested HVLA may improve SPRINT in world class athletes (n=7: -0.05 95%CI: -0.12, 0.02). They concluded that although the pilot study was underpowered to detect clinically relevant differences, the direction / magnitude of the changes associated HVLA and the increased soreness following HVLA suggest it warrants further study. Ian Shrier MD, PhD, Dip Sport Med, FACSM is at the Centre for Clinical Epidemiology and Community Studies, SMBD-Jewish General Hospital in Montreal. Dale MacDonald is a sport sciences resident.

Van der Velde PhD candidate University of Toronto

Gabrielle van der Velde is an Associate Professor at the Canadian Memorial Chiropractic College and a Researcher at the Institute for Work & Health in Toronto. She is pursuing a PhD in Clinical Epidemiology and Health Care Research in the Department of Health Policy, Management and Evaluation at the University of Toronto. She has just received a second Doctoral Fellowship Award from the Canadian Institutes of Health Research in partnership with the Canadian Chiropractic Research Foundation. Dr. van der Velde's PhD thesis consists of performing a decision analysis which will compare the risks and benefits associated with commonly used non-surgical neck pain treatments. She is member of the Scientific Secretary of the Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders. She will be presenting an abstract entitled "Item-response theory analysis of the Neck Disability Index' at the upcoming Amsterdam International Forum on Low Back Pain Research.

Wynd PhD candidate University of Calgary

Shari Wynd has almost completed her PhD in Biomedical Engineering in the Faculty of Kinesiology, under the supervision of Dr. Greg Kawchuk DC, PhD. She has continued to focus on the effects of cervical manipulation on the vertebral artery using an *in vivo* animal model. Her primary focus has been on investigating the potential exacerbation of a pre-existing lesion by manipulation. To that end, she (along with Drs. Kawchuk and Anderson) has published an article in JMPT titled "*Defining the effect of cervical manipulation on vertebral artery integrity: establishment of an animal model*". She also contributed to NCMIC's recent comprehensive manuscript "Current Concepts in Spinal Manipulation and Cervical Artery Incidents". As her PhD draws to a close, she has begun seeking post-doctoral positions. She continues to practice at the University Health Services Clinic at University of Calgary.

JCCA Editorial Board

Two new members have been appointed to the Editorial Board of the Journal of the Canadian Chiropractic Association. The JCCA welcomes their expertise and commitment to the scholarly literature.

Martin Descarreaux DC, PhD

Dr. Martin Descarreaux DC, PhD is a Professeur, Département de Chiropratique, Université du Québec à Trois-Rivières, Trois-Rivières, QC. His team in the biomechanics and kinesiology laboratory, utilizes all the standard material needed for motor control and biomechanical research, including Force plate, strain gage, electromyography, pressure mat, accelerometers, and a Kinematic analysis system (Certus, NDI). Computer and data acquisition systems are also available.

Brian Budgell DC, PhD

Dr. Budgell is a 1986 graduate of CMCC. From 1993 until the present he has held the position of visiting researcher in the Department of the Autonomic Nervous System at the Tokyo Metropolitan Institute of Gerontology. During his first 7 years in Tokyo, he conducted research into somatoautonomic reflexes under the direction of the late Professor Akio Sato. This work involved primarily spinal stimulation in anesthetized rats. He has subsequently continued basic physiological research and has also conducted clinically-oriented studies of the effects of spinal stimulation on autonomic regulation of cardiovascular function. He currently holds the position of Associate Professor in the School of Health Sciences, Faculty of Medicine, Kyoto University. He also maintains research collaborations and holds posts as visiting academic at the Faculty of Health, University of Newcastle, Australia, and as visiting researcher at the Shanghai Research Center of Acupuncture and Meridian, a WHO collaborating centre for the study of traditional medicine.

JCCA Accepted into PubMed Central

On Friday September 8, 2006 the Journal of the Canadian Chiropractic Association (JCCA) was notified that it had been accepted into the PubMed Central database. Following an extensive two year period of review, the JCCA was delighted to receive the positive news. This represents another milestone for the profession in Canada. In the coming months, the JCCA will be accessible through this very important database.

PMC Overview

PubMed Central is a digital archive of life sciences journal literature at the U.S. National Institutes of Health (NIH), developed and managed by NIH's National Center for Biotechnology Information (NCBI) in the National Library of Medicine (NLM). With PubMed Central, NLM is taking the lead in preserving and maintaining unrestricted access to the electronic literature, just as it has done for decades with the printed biomedical literature. PubMed Central aims to fill the role of a world class library in the digital age. NLM believes that giving all users free and unrestricted access to the material in PubMed Central is the best way to ensure the durability and utility of the archive as technology changes over time.

Participating journals must meet certain editorial standards. The value of PubMed Central, in addition to its role as an archive, lies in what can be done when data from diverse sources is stored in a common format in a single repository. With PubMed Central, one can quickly search the entire body of full-text articles and locate relevant material regardless of its source. It also makes it possible to integrate the literature with a variety of other information resources such as sequence databases and other factual databases that are available to scientists, clinicians and everyone else interested in the life sciences.

<http://www.ncbi.nlm.nih.gov/gquery/gquery.fcgi>

Upcoming Events

Canadian Chiropractic Convention November 16-18, 2006 Vancouver, British Columbia
www.chiroconvention.com

5th Canadian Cochrane Symposium will be held on 12-13 February 2007 at the Crowne Plaza Hotel in Ottawa. Further details and call for abstracts: www.cochrane.uottawa.ca

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at 416-781-5656 or via email at algotlib@ccachiro.org

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