

## CURRICULUM VITAE

**A. May 15, 2009**

**B. BIOGRAPHICAL INFORMATION:**

### BEVERLEY CATHARINE CRAVEN

#### Hospital Address

Toronto Rehab, Lyndhurst Centre  
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### B1.0 Degrees

MSc	2007	University of Toronto, Department of Health Policy Management & Evaluation, Clinical Epidemiology
FRCPC	1998	McMaster University, Physical Medicine & Rehabilitation
LMCC	1996	Part 1 1994, Part II 1996
MD	1994	McMaster University
BA	1989	York University, Specialized Honours Physical Education

### B2.0 Employment

2007/12 - present	Assistant Professor, University of Toronto, Department of Medicine, Division of Physiatry
2007 - present	Scientist, Toronto Rehab, Lyndhurst Centre, Activity Team, Spinal Cord Rehab Program,
2005 - 2006	Maternity leave, January – May, modified work hours June - September 2005
2000 - present	Consulting Staff, Bloorview MacMillan Children's Centre
1999 - 2006	Lecturer, University of Toronto, Department of Medicine, Division of Physiatry
1999 - present	Clinician Scientist, Toronto Rehab, Lyndhurst Centre, Spinal Cord Rehab Program
1998 - present	Active Medical Staff, Department of Medicine, Division of PMR, Toronto Rehab, Lyndhurst Centre
1998 - 1999	Clinical Scholar, University of Toronto, Department of Medicine, Division of PMR
1998 – 2008	Term Medical Staff, Hamilton Health Sciences
1997 – 1998	Chief Resident, PMR, McMaster University
1994 – 1998	Resident, Physical Medicine and Rehabilitation, McMaster University
1989 – 1991	Laboratory Instructor, York University, Anatomy & Biomechanics

### B3.0 Honours

- 1998 Canadian Physiatrists Research & Development Fund – Fellowship Support Award
- 1998 McMaster PMR Research Day Winner
- 1997 CAPMR Essay Contest Winner
- 1989 Graduated Cum Laude, Member of the Dean’s List 1984 – 1989
- 1989 Master’s Honor Roll, McLaughlin College, York University.
- 1989 CASS/ACSS Undergraduate Student Award for excellence in arts and science
- 1989 Lily D’Urzo Scholarship for academic and athletic excellence
- 1989 Stuart G. Robbins Book Prize
- 1989 Faculty of arts in Course Scholarship
- 1988 Arthur Johnson Bursary for academic and athletic excellence
- 1987 NSERC Research Award
- 1986 NSERC Research Award

### B3.1 Research Honours

- 2008 Flett H, **Craven BC**, McIlroy W, Popovic MR, Verrier M: Walking Function in Chronic Incomplete Spinal Cord Injury: Relationship to Sensory Motor Function. 3rd National SCI Conference, Toronto, ON, November 6-7, 2008 (*Podium & Poster – Patient Care Award Winner*)
- 2008 Furlan JC, **Craven BC**, Fehlings MG: **Attitudes toward elderly individuals with SCI: A questionnaire-based survey among registered nurses**, 3<sup>rd</sup> National Spinal Cord Injury Conference & 16<sup>th</sup> Interurban SCI Conference, Toronto, ON, November 6-8, 2008. (*Podium & Poster- Winner Education Category*)
- 2007 **Craven BC**, Kinsey JM, Kaiser A, Brown A, McGillivray CF: The Good the Bad and the Ugly: Recruiting in Spinal Cord Injury Clinical Trials. 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton. ON, October 25-26, 2007 (*Poster Award Winner*)
- 2007 Flett HM, **Craven BC**, Popovic MR, McIlroy WE, Verrier MC: Measurement of Walking Function in Chronic Incomplete Spinal Cord Injury. 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, October 25-26, 2007. (*Poster Award Winner*)
- 2005 **Craven BC**, **The Quantification of Spasticity in SCI: A Pilot Project**. 14<sup>th</sup> Interurban Spinal Cord Conference 2005, Kingston ON, September 15-16 2005. (*Podium & Poster- Winner*)
- 2004 **Craven BC**, Kaiser A, Hassouna M, MacMillan RD: ED and Sex: Finding New Pathways to Pleasure. 1<sup>st</sup> National Spinal Cord Rehab Conference, Toronto ON, Sept 17-18 2004. (*Podium & Poster- Received First Place Award, Education Category*)
- 2003 Mittmann N, **Craven BC**, Gordon M, Hassouna M, MacMillan R, Lanctôt KL. Erectile Dysfunction in Spinal Cord Injury: A Cost-Utility Analysis Annual Conference of the Canadian Association for Population Therapeutics, Quebec City, Quebec March 30 2003. (*Poster – received the Janssen*)

*Ortho Award for "Best Poster" presentation)*

#### **B4.0 Professional Affiliations and Activities**

Member, Canadian Association of Physical Medicine and Rehabilitation (CAPMR)  
Affiliate Member, American Academy of Physical Medicine and Rehabilitation (AAPMR)  
Member, American Society of Bone Mineral Research (ASBMR)  
Member, International Society of Clinical Densitometry (ISCD)  
Member, Ontario Medical Association/Canadian Medical Association (OMA/CMA)  
Associate Member, Association of Academic Physiatrists (AAP)  
Member, American Spinal Injury Association (ASIA)  
Member, American Paraplegia Society (APS)

#### **B4.1 Grant Review Activities**

2001 - 2003      Member, Rehab Research Panel, Ontario Neurotrauma Foundation  
2001 - 2002      External Reviewer, University of Manitoba, Division of PMR Awards  
2001              External Reviewer, Parkwood Hospital Foundation, London, Ontario  
2001              External Reviewer, Royal Ottawa Health Care Group, Ottawa, Ontario

#### **B4.2 Ad Hoc Journal Reviewer**

2005 – present      Archives of Physical Medicine and Rehabilitation  
2005 – present      Journal Of Rehabilitation Research and Development  
2004 – present      Spinal Cord  
2004 – present      Journal of Spinal Cord Medicine

#### **B4.3 Abstract Review Committees**

2009              Ajudicator, 57<sup>th</sup> Annual CAPMR Meeting Abstract/Poster Contest  
2008              Ajudicator, 56<sup>th</sup> Annual CAPM&R Meeting Abstract / Poster Contest  
2007              CIHR SCI in Pain Research Subgrants (5)  
2006              2<sup>nd</sup> National Spinal Cord Injury Conference: The Evolving Architecture of Patient Care  
Education and Research, Abstract Reviewer  
2005              Ajudicator, CAPMR Annual Meeting, Abstract & Podium Adjudicator  
2004              1<sup>st</sup> National Spinal Cord Injury Conference: The Evolving Architecture of Patient Care  
Education and Research, Abstract Reviewer  
2002 – 2003      Ajudicator, 50<sup>th</sup> Annual CAPM&R Meeting, Abstract & Poster Adjudicator

#### **B4.4 Professional Appointments**

2007 - present      Scientist, Toronto Rehab  
2000 – present      Manager, Bone Density Lab, Toronto Rehab  
1999 – 2000      Acting Manager, Research, Toronto Rehab, Lyndhurst Centre

## **B4.5 Hospital Committees**

### **Research and Education Committees**

2004 – present	Member, Research Policies and Procedures Committee, Toronto Rehab
2004 – 2006	Member, Spine Steering Committee Member, Hamilton Health Sciences
2004 – 2006	Member, Quality of Patient Care Committee, Toronto Rehab
1999 – 2002	Member, Search Committee SCI Research Lead for Toronto Rehab

### **Administration Committees**

2007 – present	Co-Chair, Toronto Rehab Medical Staff Association Awards Committee
2005 – 2006	Member, Search Committee, Spinal Cord Program Medical Director
2004 – 2007	Member, Toronto Rehab Board of Directors
2005 – 2007	President, Medical Staff Association, Toronto Rehab
2004 – 2006	Vice President, Medical Staff Association, Toronto Rehab
2004 – 2006	Member, Spine Steering Committee Member, Hamilton Health Sciences
2004 – 2007	Member, Quality of Patient Care Committee, Toronto Rehab
2003 – 2007	Member, Medical Advisory Committee, Toronto Rehab
2003 – 2004	Secretary, Medical Staff Association, Toronto Rehab
2003 – 2004	Treasurer, Medical Staff Association, Toronto Rehab

## **B4.6 University Committees**

2006 – present	Member, Department of Medicine, Gender Issues Committee, University of Toronto
2005 – 2008	Member, PMR Grand Rounds Committee, University of Toronto
2003 – 2004	Member, Planning Committee for 3rd Canadian PMR Comprehensive Review Course
2001 – 2007	Member, University of Toronto, Division of Physiatry, Residency Program Training Committee
2001 – 2007	Coordinator, PMR Resident Quality Improvement, University of Toronto
2001 – 2004	Adjudicator, PMR Annual Resident Research Day, University of Toronto
2000 – 2001	Co-Chair, MOCOMP Rounds, Division of PMR, McMaster University

## **B4.7 Provincial Committees**

2005 – 2007	Member, HHS Interurban Spinal Cord Injury Planning Committee
2004 – present	Member, Ontario Spinal Cord Program Exchange
2003 – 2004	Chair, Ontario Spinal Cord Program Exchange

## **B4.8 National Committees**

2006 – 2008	Co-Chair Scientific Planning Committee, 3 <sup>rd</sup> National Spinal Cord Rehab Conference
2007 – present	Member, Leadership Team, Spinal Cord Injury Solutions Network, Translational Research Network Rehab Practice Network

Beverley Catharine (Cathy) Craven

2007 – 2009	Member, Community Follow-up Sub-Committee of the Spinal Cord Injury Solutions Network
2007 – present	Member, Board of Directors of the Rick Hansen Spinal Cord Injury Registry
2006 - present	Member, Scientific and Executive Committee of the Rick Hansen Spinal Cord Injury Registry
2005 – 2006	Co-Chair Scientific Planning Committee, 2 <sup>nd</sup> National Spinal Cord Rehab Conference
2003 – 2004	Co-Chair, Scientific Planning Committee, 1 <sup>st</sup> National Spinal Cord Rehab Conference
2000 – 2002	Chair, Canadian Association of Physical Medicine and Rehabilitation, Spinal Cord Special Interest Group

#### **B4.9 Examination Board Member**

2005 – present	Royal College of Physicians and Surgeons of Canada, Physical Medicine and Rehabilitation
2003 – present	LMCC Part II Examiner

#### **B4.9 Certification**

2001 - present	ISCD - Certified Clinical Densitometrist
1999 - present	BCLS and AED Certification
1989	Certificate In Fitness Assessment and Exercise Counselling, York University
1989	Certificate in Advanced Coaching, York University

**C. ACADEMIC HISTORY**

**C3.0 Peer Reviewed Grants Awarded**

Period	Granting Agency	Amount	Role	Researcher/Title of Project
2009-2010	CIHR-IMHA	\$64,152	Co-Investigator	Popovic MR, <u>Craven BC</u> , Verrier M, Masani K <b>“Neuroprosthesis for sitting among individuals with SCI”</b>
2009-2010	Spinal Cord Injury Solutions Network Grant #: RRA 2009-42	\$99,300	Co-Investigator	Krassioukov A, Warburton D, <u>Craven BC</u> , Ford MH, Workhoven E <b>“Autonomic Dysreflexia and Abnormal Cardiovascular Control Following Spinal Cord Injury- Translating Knowledge into Best Practice for Health Care Professionals”</b>
2009-2010	Spinal Cord Injury Solutions Network Grant # : 2009-37	\$97,238.29	Co-Investigator	Boschen KA, Bayley M, <u>Craven BC</u> , McGillivray CF, Hunter J, Flett HM, <b>“Spinal Cord Injury, Chronic Pain Self Management: A Clinical Demonstration Study”</b>
2007-2009	ONF- REPAR Rehabilitation Team Development & Research Program The grant requires a PI from ON and PQ Grant #: 2008-ONF-REPAR-601	\$145,000	Co-Principal Investigator	<u>Craven BC</u> , Courtois F, Noreau L, Ditor D, Giangregorio LM, Hayes KC, Houghton P, Wolfe D, Boschen KA, Campbell K, Hitzig SL, Katz J, Mahoney JL, McGillivray CF, Mittmann N, St-Germain D, Walker KD, <b>“The SCI IMPACT Research Team”</b>
2008-2010	Physicians Services Incorporated Grant#: 08-22	\$162,000	Principal Investigator	<u>Craven BC</u> , Boschen KA, Noreau L, Katz J, Mittmann N, Campbell K, Hitzig, S.L. Wolfe D, McGillivray CF, Walker K, <b>“Chronic Pain and Fractures After Spinal Cord Injury (SCI): Impact on Costs of Care and Quality of Life”</b> .
2008-2011	CIHR-NSERC Collaborative Health Research Grant CIHR # CPG 87507 NSERC # CHR PJ 350980-2008	\$296,385	Co-Investigator	Hunter J, Dostrovsky JO, Popovic MR, <u>Craven BC</u> , Katz J, <b>“Novel tool to evaluate integrative Somatosensory processing in people with central neuropathic pain after spinal cord injury”</b> .

2008-2012	CIHR Operating Grant CIHR-177-254 Grant #: MOP 86521	\$85,477	Co-Principal Investigator	<u>Craven BC</u> , Giangregorio LM, Adachi R, Papaioannou A, , McCartney N, Thabane, L, Popovic M, <b>“Bone Quality in Individuals with Chronic Spinal Cord Injury”</b> .
2008-2010	Ontario Neurotrauma Foundation (ONF) Grant #:ONF2008-SCI-BIOELEC-487	\$211,154	Co-Investigator	Houghton PE, Edsberg L, Hayes K, <u>Craven BC</u> , Popovic M, <b>“Role of Bioelectrical and Biochemical fields in Chronic Non-Healing wounds of people with SCI.”</b>
2007-2008	Ontario Neurotrauma Foundation Grant #:ONF2007-SCI-REHOS-489	\$69,211	Co-Investigator	Jaglal S, Guilcher SJT, Verrier M, <u>Craven BC</u> , <b>“Rehospitalization After Spinal Cord Injury”</b>
2007-2009	Ontario Neurotrauma Foundation Operating Grant Grant #:ONF-SCI-2006-WAVE-445	\$188,904	Principal Investigator	<u>Craven BC</u> , Morris A, Giangregorio LM, Popovic MR, <b>“WAVE - Whole Body Vibration (WBV) for Treatment of Sublesional Osteoporosis After Spinal Cord Injury: A Pilot Study”</b>
2007 – 2009	Christopher & Dana Reeve Paralysis Foundation (CDRPF) Grant #:KA1-0701-2	\$145,000 (US)	Collaborator	Krassioukov A, Harkema S, Claydon VE, Warburton DE, Popovic MR, Ditor D, Furlan J, Stevens D, <u>Craven BC</u> , <b>“Autonomic Standards for the Evaluation of Individuals with Spinal Cord Injury”</b> .
2006-2008	Ontario Neurotrauma Foundation Grant #:	\$147,575	Collaborator	Green R, Bradbury C, Hitzig S. McGillivray C, <u>Craven BC</u> , <b>“The Prevalence of Undiagnosed and Untreated Traumatic Brain Injury in Individuals with Spinal Cord Injury”</b> .
2005-2006	CIHR CIHR-IMHA Project Grant #: 78757	\$100,000	Collaborator	Boschen K, Katz J, <u>Craven BC</u> , Popovic M, Thrasher A, Hunter J, Tonack M, Hitzig S, <b>“Chronic Pain and Quality of Life in Spinal Cord Injury”</b> .
2005-2007	Social Sciences and Humanity Research Council Grant #: 410-2004-1476	Local Budget \$29,290	Co-Investigator Site Investigator for Multi-Centre Study	Davis CG, Blackmer J, Perugini M, <u>Craven BC</u> , <b>“Adjusting to New Circumstances: Coping with Spinal Cord Injury”</b> .
2005-2009	CIHR Grant #: CIHR-833-2007-1006	\$589,799	Site Investigator for Multicentre Study	Martin Ginis KA, Latimer AE, Bray SR, Hicks AL, Goldsmith CH, Wolfe DL, Potter PJ, Hayes KC, Buchholz AC, <u>Craven BC</u> , McColl MA, Tonack M, <b>“Developing Physical Activity Recommendations &amp; Interventions for People with Spinal Cord Injury. Phase 2: Determining the Prevalence and Health Benefits of Physical Activity”</b> .

2004-2007	CIHR Operating Grant	\$360,000	Collaborator	Popovic M, Thrasher A, Masani K, <u>Craven BC</u> , <b>“Neuroprosthesis for Sitting Function in Spinal Cord Injury”</b> .
2004-2005	Ontario Neurotrauma Foundation Grant #: 2004-SCI-SC-03	\$23,358	Principal Investigator	<u>Craven BC</u> , Hawker GA, Davis A, Jamal S, Bugaresti JM, <b>“Bisphosphonate Therapy for Treatment of Patients with Sublesional Osteoporosis After SCI: A Retrospective Cohort Study”</b> .
2004-2008	Ontario Neurotrauma Foundation Grant #: Phase I: ONF- 2004-SCI-SC-04 Grant #: Phase II: ONF- 2008-SCI-(2)-594	\$150,000  \$60,000	Co- Investigator	Popovic M, <u>Craven BC</u> , Boschen K, Thrasher A, Giangregorio L, Tonack M, <b>“Functional Electrical Stimulation – Assisted Walking: Reduction of Secondary Complications due to Spinal Cord Injury”</b> .
2004	Hamilton Health Sciences, New Investigator Fund	\$11,893	Senior Responsible Investigator	Dieleman A, Tonack M, Barreca S, <u>Craven BC</u> , <b>“The Anniversary Date of a Spinal Cord Injury”</b> .
2003-2006	The Physicians’ Service Incorporated Foundation Grant #:03-52  St. Joseph’s Hospital Foundation  ONF Grant #:ONF FC-700- 6196  Sanofi-Aventis Grant #:HMR 4003B/6023	\$145,000  \$35,000  \$39,000  Clinical Supplies	Principal Investigator	<u>Craven BC</u> , Adachi JD, Goldsmith C, Hawker G, McGillivray C, Webber C, <b>“Risedronate for Treatment of Sublesional Osteoporosis After Spinal Cord Injury”</b> .
2004-2006	Ontario Neurotrauma Foundation Grant #: 2004-SCI-SC-03  Women’s College Hospital  U of T Division of Physiatry	\$49,636	Principal Investigator	<u>Craven BC</u> , Hawker GA, Davis A, Jamal S, Bugaresti JM, <b>“Bisphosphonate Therapy for Treatment of Patients With Sublesional Osteoporosis After Spinal Cord Injury: A Retrospective Cohort Study”</b> .
2003-2005	Bloorview Children’s Hospital Foundation	\$180,584 (\$92,806 April 1, 2003 to March 31, 2004)	Collaborator	Johnson P, Ross M, <u>Craven BC</u> , Parker K, Wright J, Oddson B, <b>“An Evaluation of the Benefits of Physical Activity on Bone Mineral Density and Prevention of Fractures in Children with Spina Bifida”</b> .

2002-2003	Canada Foundation for Innovation – New Opportunities, Ontario Innovation Foundation	\$366,832	Collaborator	Popovic M, Thrasher A, Hajek V, <u>Craven BC</u> , Zu J, McGillivray C, Rehabilitation Engineering Laboratory: <b>“Facilities for Developing Advanced Prostheses for Standing and Locomotion in Stroke and Spinal Cord Injured Patients”</b> .
2002-2004	Canadian Institutes for Health Research	\$127,995 (\$63,997 per year)	Co Investigator	Martin KA, <u>Craven BC</u> , Hicks AL, Latimer AE, McCartney N, Norman GR, <b>“Development of a Valid and Reliable Measure of Physical Activity for People with Spinal Cord Injury”</b> .
2002-2003	Bloorview Children’s Hospital Foundation	\$88,666	Co-Principal Investigator	Johnson P, Ross M, Oddson B, <u>Craven BC</u> , Webber C, <b>“The Relationship Between Bone Density and Risk of Fractures in Children with Spina Bifida”</b> .
2001	Kids Action Grant	\$24,832	Co-Principal Investigator	Johnson P, <u>Craven BC</u> , Ross M, Wright D, Biggar M, <b>“Identifying Bone Density Outcome Measures that are Reliable, Clinically Relevant and Acceptable to Both Children with Spina Bifida and their Families”</b> .
1999-2002	Ontario Neurotrauma Research Institute (QEH) Hamilton Health Sciences Corporation AT Jousse Foundation	\$93,270 \$39,000. \$10,000	Principal Investigator Principal Investigator Principal Investigator	<u>Craven BC</u> , Adachi JD, Bugaresti JM, Goldsmith CE, McGillivray CF, Webber CE, <b>“Risedronate for Prevention of Osteoporosis After Spinal Cord Injury: A Multi-Centre, Randomized, Double Blind, Placebo-Controlled Trial”</b> .
1999-2002	Queen Elizabeth II Health Sciences Centre Research Foundation	\$17,300	Principal Investigator	<u>Craven BC</u> , <b>“The Reliability and Accuracy of Regional DEXA Measures of Bone Density of the Knee Region”</b> .
1999-2002	Ontario Neurotrauma Foundation ONBO-99135	\$96,000	Principal Investigator	<u>Craven BC</u> , Adachi JD, Bugaresti JM, McGillivray CF, Johnston R, Nantais T, Pepper J, <b>“Evaluation of Conventional Versus Innovative Standing Frame for the Treatment of Osteoporosis After Spinal Cord Injury”</b> .
1999-2001	Ontario Neurotrauma Foundation ONBO-99145	\$96,000	Co-Investigator	Hicks A, Bugaresti JM, <u>Craven BC</u> , McCartney N, <b>“Impact of a Community Fitness and Wellness Program for Persons with Spinal Cord Injury”</b> .

1999-2001	Ontario Neurotrauma Foundation	\$177,644	Co-Investigator	McCartney N, Hicks A, <u>Craven BC</u> , Tarnopolsky MA, Blimpkie J, Webber CE, <b>“Body Weight Supported Treadmill Training After SCI: Effect on Functional Abilities and Important Health Outcome”</b> .
1999	McMaster University, Kinesiology Department	\$4,000	Co-Investigator	Pineau R, <u>Craven BC</u> , Hinds R, McCartney N, <b>“Evaluation of Effect of Body Weight Support Treadmill Training on Lipid Profile and Bone Turnover Post Spinal Cord Injury”</b> .
1999	Hamilton Health Sciences Corporation	\$8,000	Principal Investigator	<u>Craven BC</u> , Adachi JD, Webber CE, Bugaresti JM, <b>“The Reliability and Accuracy of Regional DEXA Measures.</b>
1999	QEH Foundation CPDRF Fellowship Support Award	\$2,225 \$4,000	Principal Investigator	<u>Craven BC</u> , Buchholz A, Loewenberger E, McGillivray CF, <b>“The Calcium Intake of Persons with Spinal Cord Injury: An Observational Study”</b> .
1999	McMaster University	\$3,000	Co-Investigator	Ditor D, <u>Craven BC</u> , Hicks AL, Tarnopolsky M, Green HJ, <b>“Effect of Spinal Cord Injury on Na-K ATPase”</b> .
TOTAL GRANT DOLLARS		\$4,630,720		
TOTAL PI GRANT DOLLARS		\$1,244,063		

### C3.1 Non Peer Reviewed Funding

2006	Aventis	\$25,000 Unrestricted grant-	Principal Investigator	<u>Craven BC</u> , Adachi R, Goldsmith C, Hawker G, McGillivray C, Webber C, <b>“Risedronate for Treatment of Sublesional Osteoporosis After Spinal Cord Injury”</b> <i>Funds to cover clinical supplies for a peer reviewed grant funded by PSI for balance of trial costs</i>
2004	Acorda Therapeutics Inc.	\$100,000	Site Investigator	<u>Craven BC</u> , McGillivray CF, <b>“Open Label Extension of Double Blind, Placebo-Controlled Parallel Group Study to Evaluate Safety, Tolerability, and Activity of Oral Fampridine-SR in Subjects with Chronic Incomplete Spinal Cord Injury (SCI-F300 EXT)”</b> . <i>Site Investigator for North American Multicentre Trial Monitored by FDA &amp; Health Canada</i>
2003-05	Toronto Rehab, Best Practice Initiative	\$21,404	Co-Principal Investigator	McGillivray CF, <u>Craven BC</u> , Tonack M, Herschorn S, Krassioukov AA, <b>“Autonomic Dysreflexia – A Model for Translating Knowledge into Best Practice for Consumers and Health Practitioners”</b> .

2003-05	Toronto Rehab, Best Practice Initiative	\$35,614	Site Investigator	Tonack M, <u>Craven BC</u> , Hitzig S, “ <b>International Evaluation of the Third Version of the Spinal Cord Independence Measure: Reliability, Sensitivity to Functional Changes and Research Analysis</b> ”. <i>Site Investigator for Multicentre International Study</i>
2003-04	Toronto Rehab, Best Practice Initiative	\$38,634	Principal Investigator	<u>Craven BC</u> , Morris A, McGillivray CF, Ganley C, Guy K, Cross S, “ <b>The Quantification of Spasticity in Persons with SCI – A Pilot Project</b> ”.
2003-04	Toronto Rehab & Division of Physiatry	\$6,000	Principal Investigator	<u>Craven BC</u> , “ <b>Articulating a Vision for a Canadian Multi-Centre Spinal Cord Injury Clinical Trials Network (CaM-SCI)</b> ”.
2003-05	Toronto Rehab, Best Practice Initiative	\$65,708	Co-Principal Investigator	Tonack M, <u>Craven BC</u> , Boschen K, Nantais T, McGillivray CF, Reuber H, “ <b>Long Term Follow-up of Persons Living with Traumatic and Non-Traumatic Spinal Cord Injury</b> ”.
2003	Acorda Therapeutics Inc	\$50,000	Site Investigator	<u>Craven BC</u> , McGillivray CF, “ <b>Double Blind, Placebo-Controlled, 12-Week Parallel Group Study to Evaluate Safety and Efficacy of Oral Fampridine-SR in Subjects with Moderate to Severe Spasticity Resulting from Chronic, Incomplete Spinal Cord Injury (SCI-F301)</b> ”. <i>Site Investigator for North American Multicentre Trial Monitored by FDA &amp; Health Canada</i>
2002-03	Acorda Therapeutics Inc	\$75,000	Site Investigator	<u>Craven BC</u> , McGillivray CF, “ <b>Double Blind, Placebo-Controlled, 12-Week Parallel Group Study to Evaluate Safety and Efficacy of Oral Fampridine-SR in Subjects with Moderate to Severe Spasticity Resulting from Chronic, Incomplete Spinal Cord Injury (SCI-F302)</b> ”. <i>Site Investigator for North American Multicentre Trial Monitored by FDA &amp; Health Canada</i>
2001	Pfizer Canada	\$86,000	Co-Principal Investigator	Mittmann N, <u>Craven BC</u> , Hassouna M, McMillan R et al. “ <b>The Cost Utility of Sildenafil for Treatment of Erectile Dysfunction in Persons with Spinal Cord Injury</b> ”.

### C3.2 Research Grants Applied for – Awaiting Review

Period	Granting Agency	Amount	Role	Researcher/Title of Project
2009-2012	SCI-SN	\$1,430,030	Co-Investigator	Verrier MC, Barbeau H, Bouyer L, <u>Craven BC</u> , Eng JJ, Ethans KD, Fung J, Hicks A, Lam T, Nadeau T, Popovic MR, Short MR, Steeves J, Stein R, Yang JF: <b>Developing Nationwide Best Practices and Capacity for Spinal Cord Injury Multi-Site Gait Rehabilitation Clinical Trials</b>
2009-2011	ONF		Co-Investigator	Mittmann N, <u>Craven BC</u> , Chan B: <b>Characteristics, resource and economic burden of bowel dysfunction in individuals with traumatic spinal cord injury.</b>
2009-2011	CIHR	\$349,555	Co-Investigator	Popovic MR, Verrier M, Masani K, <u>Craven BC</u> : “Functional electrical stimulation assisted balance training for stroke survivors”

### C3.3 Research Grants Applied for – Not Awarded

Period	Granting Agency	Amount	Role	Researcher/Title of Project
2009-2011	Heart & Stroke Foundation	\$356,211	Co-Principal Investigator	<u>Craven BC</u> , Krassioukov A, Burns A, Miyatani M, Campbell K, Oh P, Warburton D, Popovic M, “Asymptomatic Coronary Artery Disease Among People with Chronic Spinal Cord Injury”.

## D. PUBLICATIONS

### D1.0 Peer Reviewed Publications - 32

\* indicates most significant publications;  
\_\_\_\_\_ supervised students names are underlined

- J-1. Jaglal SB, Munce SEP, Guilcher SJT, Couris CM, Fung K, Craven BC, Verrier M: **Health System Factors Associated with Rehospitalization after Traumatic Spinal Cord Injury: A population-based study.** *Spinal Cord*, 10 March 2009; doi: 10.1038/sc.2009.9. (Co-Investigator)
- J\_2.\* Craven BC, Robertson LA, McGillivray CF, and Adachi JD: **Treatment of Sublesional Osteoporosis Among Patients with SCI: A Proposed Treatment Paradigm** *Topics In Spinal Cord Injury, Topics in Spinal Cord Injury 2009;14(4):1-22.*
- J-3. Furlan JC, Craven BC, Ritchie R, Coukos L, Fehlings MG: **Attitudes Toward the Elderly with Spinal Cord Injury: A Comparison Between Nurses Working in an Acute Spine Trauma Centre and Nurses Working in a Rehabilitation Center in Canada.** 14 April 2009; doi: 10.1038/sc.2009.23. (Co-Investigator)
- J-4.\* Miyatani M, Masani K, Oh P, Miyachi M, Popovic MR, Craven BC: **Pulse Wave Velocity (PWV) for Assessment of Arterial Stiffness among people with Chronic Spinal Cord Injury** *JSCM 2009: 32(1): 72-78.* (Senior Responsible Author- Post doc)
- J-5. McGillivray CF, Hitzig SL, Craven BC, Tonack M, Krassioukov AV: **Evaluating Knowledge on Autonomic Dysreflexia among Spinal Cord Injured Individuals and their Family Members.** *JSCM 2009: 32(1):54-62.* (Co-Investigator)
- J-6. Bassett RL, Martin Ginis KA, Buchholz AC, SHAPE SCI Research Group, (Craven BC): **A Pilot Study Examining Correlates of Body Image Among Women Living with SCI.** *Spinal Cord* 27 January 2009; doi: 10.1038/sc.2008.174.. (Collaborator) *Impact Factor 1.578*
- J-7. Morse LR, Giangregorio L, Battaglini RA, Holland R, Craven BC, Stolzmann KL, Lazzari AA, Sabharwal S, Garshick E: **A-Based Survey of Osteoporosis Management in Spinal Cord Injury** *The American Academy of Physical Medicine and Rehabilitation*, 2009, DOI: 10.1016/j.pmrj.2008.10.008. (Co-investigator)
- J-8. McVeigh S, Hitzig S, Craven BC: **Influence of Sport Participation on Community Integration and Quality of Life: A Comparison between Sport Participants and Non-Sport Participants with Spinal Cord Injury.** *Journal of Spinal Cord Medicine*, 2009; 32(2); pp 115-124. (Senior Responsible Author - PMR Resident) *Impact Factor 1.102*
- J-9. Hetz SP, Latimer AE, Martin Ginis KA, & The SHAPE-SCI Research Group (Craven BC): **Activities of daily living performed by individuals with SCI: relationships with physical fitness and leisure time physical activity.** *Spinal Cord* 2008, Dec 23; DOI: 10.1038/sc.2008.160. (Collaborator) *Impact Factor 1.578*

- J-10. Munce SEP, Guilcher SJT, Couris CM, Fung K, **Craven BC**, Verrier M, Jaglal SB: **Physician utilization among adults with traumatic spinal cord injury in Ontario: a population-based study.** *Accepted Spinal Cord, Jan 20 E –Pub* DOI: 10.1038/sc.2008.173. (Co-Investigator) *Impact Factor 1.578*
- J-11. Laughton GE, Buchholz AC, Martin Ginis KA, Goy RE, **Craven BC**: **Lowering Body Mass Index Cut-Offs Better Identifies Obese Persons with Spinal Cord Injury.** *Spinal Cord* 7 April 2009; doi: 10.1038/sc.2009.33. (Collaborator) *Impact Factor 1.578*
- J-12. Bradbury CL, Wodchis W, Pano EG, Hitzig SL, McGillivray C, Ahmad FN, **Craven BC**, Green RE: **Traumatic Brain Injury in Patients with Traumatic Spinal Cord Injury: Clinical and Economic Consequences.** *Arch Phys Med Rehabil* December 2008; 89(2); pp 577-84. (Collaborator)
- J-13. Bassett RL, Martin-Ginis KA, SHAPE-SCI Research Group (**Craven BC**): **More than Looking Good: Impact on Quality of Life Moderates the Relationship Between Functional Body Image and Physical Activity in Men With SCI.** *Spinal Cord* 16 September 2008; DOI: 10.1038/sc.2008.114. (Collaborator) *Impact Factor 1.578*
- J-14. Hitzig SL, Tonack MI, Campbell KA, McGillivray CF, Boschen, K.A, Richards, K, **Craven BC**: **Secondary Health Complications in an Aging Canadian Spinal Cord Injury Sample.** *Am J Phys Med Rehabil* 2008; 87: 545-555. (Senior Responsible Author –Research Staff) *Impact Factor 1.578*
- J-15. Finnie AK, Buchholz AC, Martin Ginis KA and SHAPE-SCI Research Group (**Craven BC**): **Current coronary heart disease risk assessment tools may underestimate risk in community-dwelling persons with chronic spinal cord injury.** *Spinal Cord* 2008: 46(9):608-615 E pub 2008 Mar 11. (Collaborator) *Impact Factor 1.578*
- J-16. Gibson AE, Buchholz AC, Martin-Ginis KA, and SHAPE-SCI Research Group (**Craven BC**): **C-Reactive Protein in Adults with Chronic Spinal Cord Injury: Increased Chronic Inflammation in Tetraplegia v. Paraplegia.** *Spinal Cord* 2008; 46(9): 616-621. (Collaborator) *Impact Factor 1.578*
- J-17. Itzkovich M, Gelernter I, Biering-Sorensen F, Weeks C, Laramie MT, **Craven BC**, Tonack M, Hitzig SL, Glaser E, Zeilig G, Aito S, Scivoletto G, Mecci M, Chadwich RJ, Masry WS EI, Osman A, Glass CA, Silva P, Soni BM, Gardner BP, Savie G, Bergström EM, Bluvshstein V, Ronen J, Catz A: **The Spinal Cord Independence Measure (SCIM) Version III: Reliability and Validity in a Multi-Centre International Study.** *Disability and Rehabilitation* 2007; 29(24):1926-1933. (Collaborator - Site Lead for International Multicentre Study) *Impact Factor 1.414*
- J-18. Tonack M, Hitzig SL, **Craven BC**, Campbell KA, Boschen KA, McGillivray CF: **Predicting Life Satisfaction after Spinal Cord Injury in a Canadian Sample.** *Spinal Cord* 2008; 46: 380-385. (Co-Investigator) *Impact Factor 1.578*
- J-19. Martin Ginis KA, Latimer AE, Buchholz AC, Bray SR, **Craven BC**, Hayes KM, Hicks AL, McColl MA, Potter P, Smith KM and Wolfe D: **Establishing Evidence Based Physical Activity Guidelines:**

**Methods for the Study of Health and Activity in People with Spinal Cord Injury (SHAPE SCI).**  
*Spinal Cord* 2008 (46): 216-221 E pub 2007 Jul 24. (Co-Investigator)

- J-20. Walters JL, Buchholz AC, Martin –Ginis & SHAPE-SCI Research Group (**Craven BC**): Evidence of Dietary Inadequacy in adults with chronic spinal cord injury. *Spinal Cord* 2009;47(4):318-22 E pub 2008 Nov 11. (Collaborator) Impact Factor 1.578
- J-21.\* Ashe M, **Craven BC**, Eng JJ, Krassioukov A, **Prevention and Treatment of Bone Loss After Spinal Cord Injury: A Systematic Review.** *Topics in Spinal Cord Injury Rehabilitation* 2007; 13(1):123-145. (Co-Principal Author)
- J-22. Catz A, Itzkovich M, Tsio L, Biering-Sorensen F, Weeks C, Laramie MT, **Craven BC**, Tonack M, Hitzig SL, Glaser E, Zeilig G, Aito S, Scivoletto G, Mecci M, Chadwick RJ, El Masry WS, Osman A, Glass CA, Silva P, Soni BM, Gardner BP, Savic G, Bergström EM, Bluvshstein V, Ronen J: **A Multi-Center International Study on the Spinal Cord Independence Measure, Version III: RASCH Psychometric Validation.** *Spinal Cord* 2007(45):275-291. (Collaborator) Impact Factor 1.578
- J-23. Giangregorio LM, Hicks AL, Webber CE, Phillips SM, **Craven BC**, Bugaresti JM, McCartney N: **Can Bodyweight Support Treadmill Training Increase Bone Mass and Reverse Muscle Atrophy in Individuals with Chronic Incomplete Spinal Cord Injury.** *Appl Physiol Nutr Metab (former CJAP)* 2006: 31 (3); 283-291. (Collaborator)
- J-24. Latimer AE, Martin-Ginis KA, **Craven BC** and Hicks AL: **The Physical Activity Recall Assessment for people with spinal cord injury: Validity.** *Med Sci Sports Exer* 2006;38(2):208-16.(Co-Investigator) Impact Factor 2.909
- J-25. Mittmann N, **Craven BC**, Gordon M, MacMillan DHR, Hassouna M, Raynard W, Kaiser A, Lanctôt KL, Tarride JE: **Erectile Dysfunction in Spinal Cord Injury: A Cost-Utility Analysis.** *Journal of Rehabilitation Medicine* 2006; 37: 358-364. (Co-Principal Author) Impact Factor 2.168
- J-26. Giangregorio LM, Hicks AL, Webber CE, Phillips SM, **Craven BC**, Bugaresti JM, McCartney N: **Bodyweight Support Treadmill Training in Acute Spinal Cord Injury: Impact on Muscle and Bone.** *Spinal Cord* 2005; 43 (11): 649-657. (Collaborator) Impact Factor 1.067
- J-27.\* Ginis KA, Latimer AE, Hicks AL, **Craven BC**: **Development and Evaluation of an Activity Measure for People with Spinal Cord Injury.** *Medicine & Sports in Exercise* 2005; 37(7): 1099-1111. (Co –Principal Author) Impact Factor 2.831
- J-28. Giangregorio LM, **Craven BC**, Webber CE, **Musculoskeletal Change in Women with Spinal Cord Injury: A Twin Study.** *Journal of Clinical Densitometry* 2005; 8 (3): 347-351. (Co –Principal Author) Impact Factor 1.871
- J-29. Latimer AE, Martin Ginis KA, **Craven BC**: **Psychosocial, Predictors and Exercise Intentions and Behaviour Among Individuals with Spinal Cord Injury.** *Adapted Physical Activity Quarterly* 2004; 21: 71-85. (Collaborator) Impact Factor 0.846
- J-30. Ditor DS, Hamilton S, Tarnopolsky MA, Green HJ, **Craven BC**, Parise B, Hicks AL: **NA+, K+ ATPase**

**Concentration and Fibre Type Distribution After Spinal Cord Injury.** *Muscle & Nerve* 2004; 29: 38-45. (Collaborator) Impact Factor 2.432

J-31. Hicks AI, Martin KA, Ditor DS, Latimer AE, Craven BC, Bugaresti JM, McCartney NA: **Long-term Exercise Training in Persons with Spinal Cord Injury: Effects of Strength, Arm Ergometry Performance and Psychological Well-being.** *Spinal Cord* 2003; 41(1): 34-43. (Co-Author) Impact Factor 1.116

J-32 Martin KA, Latimer AE, McKechnie K, Ditor DS, McCartney N. Bugaresti JM, Craven BC, Hicks AL: **Using Exercise to Enhance Subjective Well-being Among People With Spinal Cord Injury: The Mediating Influences of Stress and Pain.** *Rehabilitation Psychology* 2003; 48: 157-164. (Collaborator) Impact Factor 0.923

## D2.0 Refereed Publications – Accepted /In Press – 5

### **Accepted In Press**

\* indicates most significant publications;  
\_\_\_\_\_ Supervised Students Names are underlined

JA-1. Totosy de Zepetnek JO, Giangregorio LM, Craven BC: **Whole Body Vibration (WBV) as a potential intervention for people with low bone mineral density and osteoporosis: a review** Accepted *Journal of Rehabilitation Research and Development*, February 2009 (Senior Responsible Author – Master’s Student Independent Study)

JA-2. Couris CM, Guilcher SJT, Munce SEP, Fung K, Craven BC, Verrier M, Jaglal SB: **Incidence of Traumatic Spinal Cord Injury (SCI) in Men and Women Aged 18 and Older in the Province of Ontario** Accepted *Spinal Cord*. ,February 2009. Manuscript# SC-2008-0239 (Collaborator)

JA-3 Buchholz AC, Martin Ginis KA, Bray SR, Craven BC, Hicks AL, Hayes KC, Latimer AE, McColl MA, Potter PJ: **Greater Daily Leisure Time Physical Activity is Associated with Lower Chronic Disease Risk** Accepted *Journal of Applied Physiology, Nutrition and Metabolism* March 2009 (Co-Investigator).

### **Accepted Revisions Submitted**

JA-1.\* Craven BC, Morris A: The Intra-rater, Inter-Rater, and Inter-Session Reliability of the Modified Ashworthe Scale for Measurement of Lower Extremity Spasticity Among People with Chronic SCI. Submitted Accepted *Spinal Cord* February 2009. Manuscript# SC-2009-0042 (Co-Principal Author)

JA-2. Hitzig SL Campbell KA, McGillivray CF, Tonack MA, Boschen KA, Craven BC: **Understanding Age Effects Associated with Changes in Secondary Health Complications in A Canadian SCI Cohort.** Accepted *Spinal Cord* April 2009 Manuscript# SC-2009-0052. ( Senior Responsible Author)

## D3.0 Refereed Publications – Submitted - 6

JS-1. Furlan JC, Hitzig SL, Craven BC: The influence of age on functional recovery among adults with spinal

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cord injury or disease after inpatient rehabilitation. *Submitted to Spinal Cord March 2009 (Co-Investigator).*

- JS-2. Guilcher SJT, Munce S, Couris CM, Fung K, Craven BC, Verrier M, Jaglal SB: **Healthcare Utilization in Non-Traumatic and Traumatic Spinal Cord Injury: A Population-based Study.** *Submitted December 2008 (Collaborator).*
- JS-3. Buchholz AC, Martin Ginis KA, Bray SR, Craven BC, Hicks AL, Hayes KC, Latimer AE, McColl MA, Potter PJ: **Twenty-Five Minutes per Day of Leisure Time Physical Activity is Associated with Lower Chronic Disease Risk in Adults with Spinal Cord Injury** *Spinal Cord August 2008. (Co-Investigator)*
- JS-4. Tylee Michael James, Popovic M, Shudong Yu, Craven BC: **Analysis of whole-body vibration dynamics: Estimating the sagittal plane strain fields in the tibia and femur during vibration therapy.** *Journal of Biomechanics July 2008 (Senior Responsible Author – Undergraduate Medical Student)*
- JS-5. Thrasher TA, Sin VW, Masani K, Vette A.H., Craven BC, Popovic MR: **Kinematic Responses of the Trunk to Multidirectional Perturbations During Unsupported Sitting.** *Journal of Applied Biomechanics February 26, 2009. (Collaborator)*
- JS-6. Buchholz, Martin Ginis KA and SHAPE-SCI Research Group (Craven BC): **Twenty five minutes per day of leisure time physical activity is associated with lower chronic disease risk in adults with spinal cord injury.** *Intended for Appl Physiol Nutr Metab (co-Principal Author)*

#### D5.0 Book Chapters – 3

1. Popovic MR, Craven BC: (2009) **FES-Therapy: Neuroprosthesis for Grasping and Reaching.** In: International Handbook of Occupational Therapy Interventions. Editor: I. Söderback, Springer Verlag Sweden (Co-Principal Author)
2. Craven BC, Ashe MC, Krassioukov A, Eng JJ, (2008) **Bone Health Following Spinal Cord Injury.** In: Eng JJ, Teasell RW, Miller WC, Wolfe DL, Townson AF, Hsieh JTC, Konnyu KJ, Connolly S, Foulon BL, Abut JL., editors. *Spinal Cord Injury Rehabilitation Evidence.* Version 2.0. Vancouver, p 9.1-9.23. (Co-Principal Author)
3. Ashe MC, Craven BC, Krassioukov A, Eng JJ, (2006) **Bone Health Following Spinal Cord Injury.** In: Eng JJ, Teasell RW, Miller WC, Wolfe DL, Townson AF, Arbut J, Abramson C, Hsieh JTC, Connolly S, editors. *Spinal Cord Injury Rehabilitation Evidence.* Vancouver, p 9.1-9.18. (Co-Principal Author)

#### D6.0 Abstracts Published – 33

\* Indicates an Award Winning Abstract

- A-1. Furlan JC, Craven BC, Fehlings MG: **Attitudes Toward the Elderly Individuals With Traumatic Spinal Cord Injury Among Registered Nurses: A Cross-Sectional Study.** *Archives of Physical*

- Medicine and Rehabilitation* 2008;89: E1, Abstract #1. (Co-Investigator)
- A-2. Totosy de Zepetenek JO, Giangregorio LM, Gordon C, **Craven BC**: **The Relationship Between Muscle Size and Bone Strength Among Individuals with Spinal Cord Injury**. *Appl Physiol Nutr Metab* 2008; 33(Suppl 1): S102. (Senior Responsible Author)
- A-3. Walters J, Buchholz C, Martin Ginis KA, & The SHAPE-SCI Research Group(**Craven BC**): **Evidence of dietary inadequacy in adults with chronic spinal cord injury**. *Appl Physiol Nutr Metab* 2008; 33(3):639. (Collaborator)
- A-4. **Craven BC**, Popovic MR, Tonack MA, Hitzig SL, Boschen KA, McGillivray CF, Thrasher TA, Giangregorio LM, Lepper KD: **Study Design and the Intervention Determines the Screening to Recruitment Ratio in SCI Research**. *Journal of Spinal Cord Medicine* 2008; 31 (2):251. (Principle Investigator)
- A-5. Laughton G, Buchholz AC, Goy R, Martin Ginis KA, & The SHAPE-SCI Research Group (**Craven BC**): **The current body mass index obesity cut-off 30kg/m<sup>2</sup> is highly insensitive in the chronic spinal cord injury population**. *Appl Physiol Nutr Metab* 2008; 33(3):622. (Collaborator)
- A-6. Arbour KP, Martin Ginis KA, & The SHAPE-SCI Research Group **Craven BC**: **Examining the role of individual and environmental factors in leisure-time physical activity behaviour among person with spinal cord injury**. *Journal of Sport and Exercise Physiology* 2008; 30, S30. (Collaborator)
- A-7. **Craven BC**, Hawker GA, Bugaresti JM: **Importance of Screening for Secondary Causes of Osteoporosis among Patients with Spinal Cord Injury**. *Journal of Spinal Cord Medicine* 2008 31(3):335. (Principle Investigator)
- A-8. **Craven BC**, Popovic MR, Tonack M, Hitzig SL, Boschen K, McGillivray CF, Martin KA, Davis CG, Thrasher TA, Giangregorio LM, Latimer AE, Lepper KD: **Study Design and the Intervention Determines the Screening: Recruitment Ratio in SCI Research**. *Journal of Spinal Cord Medicine* 2008:31(2):251. (Principle Investigator)
- A-9. Furlan JC, **Craven BC**, Fehlings MG: **Analysis of factors that can potentially influence attitudes toward elderly individuals with traumatic sp: 31(2):243** (Co-Investigator)
- A-10. Munce S, Guilcher S, Couris C, Fung K, **Craven BC**, Verrier M, Jaglal S: **Health Care Utilization Rates of Traumatic Spinal Cord Injury in Men and Women Aged 18 and Older In Ontario**. *Archives of Physical Medicine and Rehab* 2008; 89(10):e43. (Co-Investigator)
- A-11. Couris C, Guilcher S, Munce S, Fung K, **Craven BC**, Verrier M, Jaglal S: **Incidence of Traumatic Spinal Cord Injury in Men and Women Aged 18 and Older in the Province of Ontario**. 2008; 89(10): e42. (Co-Investigator)
- A-12. Boschen K, Hunter J, Ballantyne E, Hitzig S, **Craven BC**, Tonack M, Walker K, Rapson L, Popovic MR, Thrasher A, Petrie S: **Kick-starting an SCI Pain Program in Ontario: Getting Five Grants from One**. *Archives of Physical Medicine and Rehabilitation* 2007; 88 (10: E23). (Collaborator)
- A-13. Hunter JP, Hitzig SL, Boschen KA, **Craven BC**, Katz J: **Living with Chronic Pain after Spinal Cord**

- Injury.** *Journal of Spinal Cord Medicine* 2007; 30(2): 17. (Collaborator)
- A-14. Arbour KP, Martin Ginis KA, & The SHAPE-SCI Research Group (**Craven BC**): **Does the environment matter? Exploring the role of the physical environment in predicting leisure-time wheeling among people with spinal cord injury.** *Journal of Sport & Exercise Psychology* 2007; 29, S144. (Collaborator)
- A-15. Finnie AK, Buchholz AC, Martin Gins KA, & The SHAPE-SCI Research Group (**Craven BC**): **Metabolic syndrome prevalence in men with chronic spinal cord injury.** *FASEB Journal* 2007; 21(5):A1056. (Collaborator)
- A-16. Tonack M, **Craven BC**, Hitzig SL, Campbell KA, Boschen KA, McGillivray CF: **Secondary Health Complications in an Aging Canadian Spinal Cord Injury Sample.** *Journal of Spinal Cord Medicine* 2006; 29(4):45. (Co-Investigator)
- A-17. McGillivray CF, Krassioukov AV, Hitzig SL, Tonack M, **Craven BC**, Greene C: **Autonomic Dysreflexia – Evaluating Knowledge Among SCI Individuals and Health Practitioners.** *Journal of Spinal Cord Medicine* 2006; 29(3):331. (Co-Investigator)
- A-18. **Craven BC**, Hawker GA, Jamal S, Davis A, Bugaresti JM: **Bisphosphonate Therapy for Treatment of Patients with Sublesional Osteoporosis after Spinal Cord Injury: A Retrospective Cohort Study.** *Journal of Spinal Cord Medicine* 2006; 29(3): 333. (Principle Investigator)
- A-19. McVeigh S, Hitzig S, **Craven BC**: **Influence of Sport Participation on Community Integration and Quality of Life: A Comparison Between Sport Participants and Non-Sport Participants with Spinal Cord Injury.** *Journal of Spinal Cord Medicine* 2005; 28(2): 144-145. (Senior Responsible Author)
- A-20. **Craven BC**, Adachi JD, Webber CE, Moreno JC: **The Pitfalls of DEXA Measures of Bone Mineral Density After SCI.** *Journal of Spinal Cord Medicine* 2004; 27(4): 394. (Principle Investigator)
- A-22. Tylee M, Popovic MR, Yu S, **Craven BC**: **Human Responses to Vibration Therapy.** *Proceedings of the 25<sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, pp. 1706-1708, 2003. (Senior Responsible Author)
- A-23. Mittmann N, **Craven BC**, MacMillan RDH, Hassouna M, Lanctôt KL, Gordon M: **Health Preference Evaluation of Erectile Dysfunction in Spinal Cord Injury Patients and their Partners.** *Canadian Journal of Clinical Pharmacology* 2004; 11(1):e109. (Co-Investigator)
- A-24. **Craven BC**, Johnson PC, Ross M, Wright J, Oddson B, Webber C: **Identifying Bone Density Outcome Measures that are Reliable, Clinically Relevant and Acceptable to Both Children with Spina Bifida and their Families.** *Journal of Bone and Mineral Research* 2003; 18(2): S288. (Principle Investigator)
- A-25.\* Mittman N, **Craven BC**, Gordon M, MacMillan R, Hassouna M, Lanctot KL, Tarride JE: **Cost-Utility of Viagra Treatment of Erectile Dysfunction in Men After Spinal Cord Injury.** *Canadian Journal of Clinical Pharmacology* 2003; 10(1): 50. (Co-Investigator)
- A-26. Bentley TC, **Craven BC**, Decker M, Van Huellenaar, Sherman-Bell M, et al.: **Musculoskeletal Complications of Wheelchair Marathons: The Golden Horseshoe Marathon Experience.** *Journal of*

*Spinal Cord Medicine* 2002; 25(1): S40. ( Senior Responsible Author)

- A-27. **Craven BC**, Bugaresti JM, McGillivray CF, Adachi RJ, Nantais TC, Pepper J: **The Development and Evaluation of a Postural Retraining Protocol for Persons with Spinal Cord Injury.** *Journal of Spinal Cord Medicine* 2002; 25(1): S38b.(Principle Investigator)
- A-28. **Craven BC**, Webber C, Adachi R, McGillivray CF, Moreno JC: **The Reliability and Accuracy of Knee DEXA in Persons With Spinal Cord Injury Using Existing Lumbar Spine DEXA Software.** *Journal of Spinal Cord Medicine* 2002; 25(1): S24.(Principle Investigator)
- A-29. **Craven BC**, Bugaresti JM, McGillivray CF, Adachi RJ, Nantais TC, Pepper J, Johnson R: **Conventional Versus Innovative Standing Frame for the Treatment of Osteoporosis After Spinal Cord Injury.** *Journal of Spinal Cord Medicine* 2002; 25(1): S38C. (Principle Investigator)
- A-30. **Craven BC**, Tonack MI, Kinsey JM: **The Benefits of Standing: A Consumer Perspective.** *Journal of Spinal Cord Medicine* 2002; 25(1): S46. (Principle Investigator)
- A-31. **Craven BC**, Mittmann N, Gordon M, Breton MC: **The Cost Utility of Viagra for Treatment of Erectile Dysfunction in Men After Spinal Cord Injury.** *Journal of Spinal Cord Medicine* 2002; 25(1): S44b. (Principle Investigator)
- A-32. **Craven BC**, Mittmann N, Kaiser A, Raynard W, Breton MC, Gordon M: **The “HARD TRUTH” an Information Resource for Men with SCI and Erectile Dysfunction.** *Journal of Spinal Cord Medicine* 2002; 25(1): S44a. (Principle Investigator)
- A-33. Ditor DS, Tarnopolsky MA, **Craven BC**, Parise G, Hicks AL, **Response to Muscle Biopsy Procedure in Persons With Paraplegia.** *Canadian Journal of Applied Physiology* 2000; 25: 368. (Collaborator)

### Abstracts Accepted

4. Hitzig SL, Campbell KA, McGillivray CF, Boschen KA, **Craven BC: Understanding Aging Effects on the Occurrence of Secondary Health Conditions after Spinal Cord Injury** *Poster Presentation submitted to the 35<sup>th</sup> Annual Scientific Meeting of the American Spinal Cord Injury Association, Dallas, TX, Sept 23-26. (Co-Investigator)*
5. Totosy de Zepetnek JO, **Craven BC**, Gordon C, Giangregorio LM: **The Relationship Between Muscle Cross Sectional Area and Bone Cross Sectional Area Among Individuals with Spinal Cord Injury.** *Poster Presentation submitted to the 35<sup>th</sup> Annual Scientific Meeting of the American Spinal Cord Injury Association, Dallas, TX, Sept 23-26. (Co-Investigator)*

D8.0 Non – Peer Reviewed Publications – 5

1. **Craven BC**, Kinsey JM, Macri M: **Standing**. *Healthy Living After Spinal Cord Injury Series*. November 2006.(*Principle Investigator*)
2. **Craven BC**, Kinsey JM, Kaiser A: **Your Bone Health**. *Healthy Living After Spinal Cord Injury Series*. March 2006 (*Senior Responsible Author*)
3. Kaiser A, **Craven BC**: **The Hard Truth about Erectile Dysfunction after Spinal Cord Injury**. *Healthy Living After Spinal Cord Injury Series*. March 2003 (*Senior Responsible Author*)
4. **Craven BC**. **A Review of Myths about Osteoporosis and Bone Density after Spinal Cord Injury**. *Rehab and Community Care Management*. Spring 2001, Vol 10(1):30-31. (*Principle Investigator*)
5. **Craven BC**. **Osteoporosis After Spinal Cord Injury: An Emerging Clinical Challenge**. *CAPMR Newsletter* 1999. (*Principle Investigator*)

## PRESENTATIONS AND SPECIAL LECTURES

### E1.0 Papers and Posters Presented at Meetings and Symposia

#### E1.1 International -30

\* *Indicates an Award Winner*  
\_\_\_\_\_ *Students Names Are Underlined*

- P-1. **Craven BC. Whole Body Vibration: Clinical Practice and Research Applications Phase I Study** Results. Association of Academic Physiatrists Annual Meeting, Colorado Springs CO, USA, February 26-28 2009. (*Workshop - 45 Minutes*)
- P-2. **Craven BC, Giangregorio LM, Morse LR: Treatment of Sublesional Osteoporosis after SCI: Current Evidence, Practice Patterns, Outcome Measures and Novel Therapies.** ACRM –ASNR Joint Educational Conference Workshop, Toronto ON, Canada, October 15-19 2008. (*Workshop – 1.5 hours*)
- P-3. Krassioukov A, Claydon V, **Craven BC**, Furlan J, Harkema S, Ditor D, Warburton D, Popovic MR, Stevens D: **Autonomic Standards for the Evaluation of Individuals with Spinal Cord Injury.** C&DRPF Annual Meeting, Atlanta GA, USA, May 8-11 2008. (*Poster*)
- P-4. **Miyatani M**, Masani K, Oh P, Miyachi M, Popovic MR, **Craven BC: Arterial Stiffness in Persons with Spinal Cord Injury: A Pilot Study.** 55<sup>th</sup> Annual of the American College of Sports Medicine, Indianapolis IN, USA, May 28-31 2008. (*Poster*)
- P-5. Ganley C, **Craven BC: Intensive Physiotherapy Maximizes Youth SCI Physical Potential.** 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, Canada, October 25-26 2007. (*Poster*)
- P-6. Boschen K, Hitzig SL, Hunter JP, Katz J, **Craven BC**, Tonack M, Rapson L, Petrie S, Walker KD, Ballantyne EC, Thrasher AT, Popovic MR: **Spinal Cord Injury Pain and Quality of Life Research Initiative.** 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, Canada, October 25-26 2007. (*Poster*)
- P-7.\* **Craven BC, Kinsey JM, Kaiser A, Brown A, McGillivray CF: The Good the Bad and the Ugly: Recruiting in Spinal Cord Injury Clinical Trials.** 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, Canada, October 25-26 2007. (*Poster*)
- P-8.\* Flett HM, **Craven BC**, Popovic MR, Mcllroy WE, Verrier MC: **Measurement of Walking Function in Chronic Incomplete Spinal Cord Injury.** 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, October 25-26 2007. (*Poster*)
- P-9. Hitzig SL, Tonack M, **Craven BC**, Campbell KA, McGillivray CF, Boschen K, Richards K: **Longitudinal Follow-Up on Health Status in a Spinal Cord Injury Cohort.** 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, Canada, October 25-26 2007. (*Poster*)

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- P-10. Dieleman A, Tonack M, Craven BC: **Significance of the Anniversary Date of Injury to Spinal Cord Injury Survivors**. 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, Canada, October 25-26 2007. (*Workshop*)
- P-11. Boschen K, Hunter JP, Hitzig SL, Tonack M, Katz J, Rapson L, Walker KB, Petrie S, Craven BC, Popovic MR: **Kick-starting and SCI pain and research program in Ontario: Getting 5 Grants from One**. 84<sup>th</sup> Annual Meeting at the American Congress of Rehabilitation Medicine & the 14<sup>th</sup> Annual Meeting of the American Society of Neurorehabilitation, Washington DC, USA, Oct 3-7 2007. (*Poster*)
- P-12. Hitzig SL, Boschen K, Hunter JP, Katz J, Craven BC, Tonack M, Rapson L, Petrie S, Walker KD, Ballantyne EC, Thrasher AT, Popovic MR: **Spinal Cord Injury Pain and Quality of Life Research Initiative**. 15<sup>th</sup> Interurban Spinal Cord Injury Conference, Hamilton ON, Canada, October 25-26 2007. (*Podium*)
- P-13. Boschen K, Hitzig SL, Hunter JP, Katz J, Craven BC, Tonack M, Rapson L, Petrie S, Walker KD, Ballantyne EC, Thrasher AT, Popovic MR: **Spinal Cord Injury/Pain and Quality of Life Post-Discharge: New Research Initiatives**. Published in Program and Abstracts: 46<sup>th</sup> ISCoS Annual Scientific Meeting, 10<sup>th</sup> NoSCoS Congress (Joint Event of the International and Nordic Spinal Cord Societies), Reykjavík Iceland. no. 08, p. 86. (*Podium*)
- P-14. Miyatani M, Khan A, Masani K, Popovic MR, Craven BC: **The Relationship between Arterial Stiffness and Body Composition in Persons with Spinal Cord Injury**. Advances in Neurorehabilitation FICCDAT, Toronto ON, Canada, June 16-19 2007. (*Poster*)
- P-15. Hitzig SL, Tonack M, Craven BC, Campbell KA, McGillivray CF, Richards K, **Ageing with a Spinal Cord Injury: A Canadian Sample**. FICCDAT, Toronto ON, Canada June 16-19 2007. (*Paper & Poster*)
- P-16. Tonack M, Hitzig SL, Craven BC, Campbell KA, Boschen KA, McGillivray CF, Richards K, Johnson M, **Long-Term Follow-up After Spinal Cord Injury in Canada**. 114<sup>th</sup> Annual Convention American Psychological Association, Division 22 Rehabilitation Psychology, New Orleans LA, USA, August 10-13 2006. (*Paper & Poster*)
- P-17. Brown A, Craven BC, Hawryluk M, **Presenting Common Anomalies and their Impact on BMD Interpretation from a Tertiary Spinal Cord Injury Rehab Centre**. ISCD Annual Meeting, San Diego CA, February 1-4 2006. (*Poster*)
- P-18.\* Craven BC, **The Quantification of Spasticity in SCI: A Pilot Project**. 14<sup>th</sup> Interurban Spinal Cord Conference 2005, Kingston ON, September 15-16 2005. (*Poster*)
- P-19. Winston P, Oh P, Craven BC, **Guideline for Preventing Coronary Artery Disease in SCI**. CAPMR Annual Meeting June Vancouver BC, Canada 2006. (*Poster*)
- P-20. Craven BC, Giangregorio LM, Webber CE: **Changes in Sublesional Bone Mineral Density / Bone Architecture Among Women with Spinal Cord Injury: A Twin Study**. ASBMR Conference, Washington DC, USA, October 1-5 2004. (*Poster*)
- P-21. Craven BC, Mittmann N, Kaiser A, Raynard W: **The HARD TRUTH: Consumer and Provider Evaluation**. Spinal Cord Interurban, London ON, Canada, October 3 2003. (*Poster*)

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- P-22. Craven BC, Mittmann N, Kaiser A, Raynard W: **The HARD TRUTH: Development.** Spinal Cord Interurban, London ON, Canada, October 3 2003. *(Poster)*
- P-23. Brown A, Craven BC, Szeto K and W Cheuk: **Is it all in the Hips?** Spinal Cord Interurban Conference, London ON, Canada, October 3 2003.*(Podium)*
- P-24. Craven BC, Johnson P, Ross M, Webber CE, Wright J, Oddson D, Biggar D: **Determining the Reliability and Usability of Bone Density Outcome Measures for Children with Spina Bifida.** ASBMR Annual Meeting, Seattle WA, USA, September 19-23 2003. *(Poster)*
- P-25. Tylee M, Popovic MR, Yu S, Craven BC: **Human Response to Vibration Therapy.** 25<sup>th</sup> Annual International Conference of IEEE Engineering in Medicine and Biology Society, Cancun Mexico, Sept 17-21 2003. *(Poster)*
- P-26. Craven BC, Moreno JC, Webber CE: **The Reliability and Accuracy of Knee DEXA in Persons With Spinal Cord Injury Using Existing Lumbar Spine DEXA Software.** ASIA Conference, Vancouver BC, Canada, May 6 2002. *(Podium)*
- P-27. Craven BC, Bentley T, Decker M, Sherman-Bell M, McLaughlin, VanHuellenaar, S. **Musculoskeletal Complications of Wheelchair Marathons: Two Years of the Golden Horseshoe Marathon Experience.** Spinal Cord Interurban Conference, Buffalo NY, May 4-5 2001. *(Poster)*
- P-28. Craven BC, Moreno JC, Webber CE, Adachi JD: **The Reliability of Knee Region DEXA Measures in Persons with SCI.** Spinal Cord Interurban Conference, Buffalo NY, May 4-5 2001. *(Poster)*
- P-29. Craven BC, Moreno JC, Webber CE, Adachi JD, McGillivray CF, Bugaresti JM: **The Reliability of Knee Region DEXA Measurement in Persons with Spinal Cord Injury.** ISCD Conference, Houston TX, USA, Mar 13-17 2001. *(Poster)*
- P-30. Craven BC, Webber CE, Bugaresti JM, Adachi JD, Roberts R: **Regional DEXA in Incomplete Quadriplegia: A Pilot Stud.** ISCD Conference Proceedings, Dallas TX, 1999. *(Poster)*

## E1.2 National - 22

\* *Indicates an Award Winner*

- P-31. Boschen K, Hitzig SL, Hunter JP, Katz J, Craven BC, Tonack M, Rapson L, Petrie S, Walker KD, Ballantyne EC, Thrasher AT, Popovic MR: **Getting Five Grants From One: Kick-Starting an SCI Pain Research Program in Ontario.** 2008 National SCI Conference, Toronto ON, November 6-7 2008. *(Poster)*
- P-32. Buchholz AC, Martin-Ginis KA, Bray SR, Craven BC, Hayes KC, Hicks AL, Latimer AE, McColl MA, Potter PJ, Smith K, Wolfe DL: **Physical Activity and Chronic Disease Risk Factors: Baseline Data from SHAPE– SCI.** 3<sup>rd</sup> National SCI Conference, Toronto ON, November 6-7 2008. *(Poster)*
- P-33.\* Flett H, Craven BC, McIlroy W, Popovic MR, Verrier M: **Walking Function in Chronic Incomplete**

- Spinal Cord Injury: Relationship to Sensory Motor Function.** 3<sup>rd</sup> National SCI Conference, Toronto ON, November 6-7 2008. (*Podium – Patient Care Award Winner*)
- P-34. Hunter JP, **Craven BC**, Lepper K, Flett H, Verrier M, **Development of Clinical Tool for use in the Rehab Setting to Characterize and Classify Post-SCI Pain.** 3<sup>rd</sup> National SCI Conference, Toronto ON, Canada, November 6-7 2008. (*Poster*)
- P-35. Lepper K, Hunter J, Flett H, Pain Best Practice Team, Verrier M, **Craven BC: The Inter Rater Reliability of the painDETECT for Assessment of Pain Type Among Patients with Acute Spinal Cord Injury.** 3<sup>rd</sup> National SCI Conference, Toronto ON, Canada, November 6-7 2008. (*Poster*)
- P-36. Miyatani M, Oh PI, Masani K, Popovic MR, **Craven BC: Role of Upper Limb Muscle Mass in Maximal Aerobic Capacity With Arm Cranking Among People With Spinal Cord Injury.** 3<sup>rd</sup> National SCI Conference, Toronto ON, Canada, November 6-7 2008. (*Poster*)
- P-37. Thrasher TA, Sin VW, Masani K, Vette AH, **Craven BC**, Popovic MR: **Kinematic Responses of the Trunk to Multidirectional Perturbations During Unsupported Sitting.** 3<sup>rd</sup> National SCI Conference, Toronto ON, Canada, November 6-7 2008. (*Poster*)
- P-38. **Craven BC**, Giangregorio LM, Morse LR: **Treatment of Sublesional Osteoporosis after SCI: Current Evidence, Practice Patterns, Outcome Measures and Novel Therapies.** ACRM–ASNR Joint Educational Conference Workshop, Toronto ON, Canada, October 15-19 2008.(*Workshop*)
- P-39. Furlan JC, **Craven BC**, Fehlings MG: **Functional Outcomes of Rehabilitation of Geriatric Patients With Spinal Cord Disease.** 3<sup>rd</sup> National Spinal Cord Injury Conference & 16<sup>th</sup> Interurban SCI Conference, Toronto ON, November 6-8 2008. (*Poster*)
- P-40.\* Furlan JC, **Craven BC**, Fehlings MG: **Attitudes toward elderly individuals with SCI: A questionnaire-based survey among registered nurses.** 3<sup>rd</sup> National Spinal Cord Injury Conference & 16<sup>th</sup> Interurban SCI Conference, Toronto ON, November 6-8 2008. (*Podium & Poster-Winner Education Category*)
- P-41. Flett HM, **Craven BC**, Popovic MR, McIlroy WE, Verrier MC: **Relationship Between Clinical Measures of Sensory Motor Function and Walking Ability in Chronic Incomplete Spinal Cord Injury.** Spinal Cord: Function, Repair and Rehabilitation after Injury, Montreal PQ, Canada, June 24-26 2008. (*Poster*)
- P-42. Richards K, Ganley C, **Craven BC: Intensive Physiotherapy Maximizes Youths SCI Physical Potential.** Spinal Cord: Function, Repair and Rehabilitation after Injury, Montreal PQ, Canada, June 24-26 2008. (*Poster*)
- P-43. Furlan JC, **Craven BC**, Coukos L, Fehlings MG: **Analysis of Attitudes Toward Elderly Individuals with Traumatic Spinal Cord Injury Among Registered Nurses: A Cross-Sectional Study.** 56<sup>th</sup> Annual CAPM&R Meeting, Fredericton NB, Canada, June 11-14 2008. (*Poster*)
- P-44. Furlan JC, Hitzig SL, **Craven BC: Functional Recovery after Rehabilitation of Elderly Patients with Spinal Cord Disease.** 56<sup>th</sup> Annual CAPM&R Meeting, Fredericton, NB, Canada, June 11-14 2008. (*Poster*)

- P- 45. Boschen K, Katz J, Craven BC, Hunter J, Tonack M, Hitzig S, Rapson L, Walker K, Popovic MR, Thrasher A, Petrie S: **Spinal Cord Injury Pain and Quality of Life Post Discharge: New Research Initiatives**. 2<sup>nd</sup> National Spinal Cord Injury Rehab Conference, Toronto, ON, Canada, October 28-29 2006. (Poster)
- P- 46. Craven BC, Morris AR: **Abandon the Ashworth? – Consider the Alternatives**. 55<sup>th</sup> CAPM&R Annual Meeting, Vancouver VA, Canada, June 9 2006. (Poster)
- P- 47. Brown A, Craven BC: **Presenting Common Anomalies and their Impact on BMD Interpretation from a Tertiary Spinal Cord Injury Rehab Centre Category – Central DXA**. ISCD 2006 Annual Meeting, San Diego CA, USA, February 1-4 2006. (Poster)
- P- 48. Hitzig SL, Flett H, Tonack M, Craven BC, McGillivray CF, Green C, Greves J, Johnson M, Catz A, Itzkovich M, Biering-Sorensen F: **Evaluation of the 3<sup>rd</sup> Version of the Spinal Cord Independence Measure: Reliability and Sensitivity to Functional Changes**. 1<sup>st</sup> National Spinal Cord Rehab Conference, Toronto ON, Canada, September 17-18 2004. (Poster)
- P- 49.\* Craven BC, Kaiser A, Hassouna M, MacMillan RD: **ED and Sex: Finding New Pathways to Pleasure**. 1<sup>st</sup> National Spinal Cord Rehab Conference, Toronto ON, September 17-18 2004. (Poster & Podium - Received Winner, First Place, Education Category)
- P-50. Caine S, McGillivray CF, Craven BC: **Antibiotic Prophylaxis Prior to Urologic Investigations in the Spinal Cord Injury Population: A Retrospective Cohort Study**. 1<sup>st</sup> National Spinal Cord Rehab Conference, Toronto ON, Canada, September 17-18 2004. (Poster)
- P-51. Craven BC, Morris A, Ganley C, Guy K, Cross S, McGillivray CF: **The Quantification of Spasticity in Persons with SCI: A Pilot Project**. 1<sup>st</sup> National Spinal Cord Rehab Conference, Toronto ON, September 17-18 2004. (Poster)
- P-52. Craven BC. **Calcium Intake After Spinal Cord Injury: An Observational Study**. 47<sup>h</sup> CAPMR, Annual Meeting, Canada, June 1999. (Poster)

### E1.3 Provincial - 17

- P-53. Totosy de Zepetnek JO, Giangregorio LM, Craven BC, & Gordon C: **The relationship between muscle size and bone strength among individuals with spinal cord injury**. Toronto Rehab 4<sup>th</sup> Annual Research Day Toronto ON, Canada, Nov 19 2008. (Poster)
- P-54. Craven BC, Giangregorio LM, Morris A, Popovic MR, Miyatani M, You L, Hitzig S, Alizadeh-Meghbrazi M, Totosy De Zepetnek J: **Wave vs. Juvent: Whole-Body Vibration Assessment Feasibility & Usability for Patients with SCI**. Toronto Rehab 4<sup>th</sup> Annual Research Day Toronto ON, Canada, Nov 19 2008. (Poster)
- P-55. Miyatani M, Masani K, Totosy de Zepetnek J, Alizadeh-Meghbrazi M, Popovic MR, Craven BC: **Acute Effects of Whole Body Vibration During Passive Standing on Arterial Stiffness**. Toronto Rehab 4<sup>th</sup> Annual Research Day Toronto ON, Canada, Nov 19 2008. (Poster)

- P-56. **Craven BC. Overview of the SCI Solutions Network Environmental Scan Activities.** Ontario Neurotrauma Foundation Data Strategy Meeting, Toronto ON, Canada, July 28 2008. *(Podium)*
- P-57. Flett HM, **Craven BC**, Popovic MR, McIlroy WE, Verrier MC: **Measurement of Walking Function in Chronic Incomplete Spinal Cord Injury.** Toronto Rehab 3<sup>rd</sup> Annual Research Day, Toronto ON, Canada, November 28 2007. *(Poster)*
- P-58. Alizadeh-Meghbrazi M, Popovic MR, **Craven BC: Whole Body Vibration After Spinal Cord Injury.** **Tator-Turnbull Research Day**, Toronto ON, Canada, Nov 23 2007. *(Poster)*
- P-59. **Craven BC. Individualizing Therapy for Patients with SCI & Osteoporosis.** Hamilton Health Sciences & McMaster University Conference Rethinking SCI Rehabilitation: Knowledge Translation in Action, Hamilton ON, Canada, Dec 7 2005. *(Podium)*
- P-60. **Craven BC, Bisphosphonates for Treatment of Sublesional Osteoporosis after SCI: Queries and Conundrums.** University of Toronto Psychiatry Grand Rounds, Toronto ON, Oct 21 2005 *(Podium)*
- P-61. McGillivray CF, Hitzig S, Tonack M, Krassioukov A, **Craven BC**, Green C, Fehlings MG: **Autonomic Dysreflexia – Evaluating Knowledge Among Consumers and Health Practitioners.** 11<sup>th</sup> Annual Academic Day for Ontario Physiatrists, Toronto, ON, Oct 22 2004. *(Poster)*
- P-62. Caine S, **Craven BC**, McGillivray CF: **Prophylactic Antibiotic Use for Spinal Cord Injury Inpatients Prior Urological Investigations.** 11<sup>th</sup> Annual Academic Day for Ontario Physiatrists, Toronto, ON, Oct 22 2004. *(Podium)*
- P-63. Johnson P, Ross M, Oddson B, **Craven BC: Bone Mineral Density and Fracture Risk in Children with Spina Bifida.** Association de Spina-bifida et d'hydrocephaliedu Québec Symposium, Montréal, QC Canada, October 17 2003. *(Podium)*
- P-64. Oddson B, Johnson P, Ross M, **Craven BC: Using Dual-Energy X-ray Absorptiometry (DEXA) and Ultrasound (QUS) to Measure Bone Mineral Density in Children with Spina Bifida,** Association de spina-bifida et d'hydrocephaliedu Quebec, Symposium, Montreal QC, Canada, Oct 17 2003. *(Podium)*
- P-65. **Craven BC, Conventional Versus Vibrating Standing Frame for the Treatment of Osteoporosis After Spinal Cord Injury.** Ontario Neurotrauma Foundation Conference, Toronto ON, Canada, Jan 30 2003. *(Podium)*
- P-66. **Craven BC**, Moreno JC, Webber CE: **Measuring Regional Changes in Bone Mineral Density Among Patients With Neurologic Impairment.** Ontario Neurotrauma Foundation Conference, Toronto ON, Jan 30 2003. *(Podium)*
- P-67. **Craven BC, Measuring Regional Changes in Bone Mineral Density Amongst Patients With Neurologic Impairment.** U Of T Academic Physiatry Day, Toronto ON, Oct 25, 2002. *(Podium)*

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- P-68. **Craven BC**, Adachi JD, McGillivray CF, Webber CE, Bugaresti JM: **The Benefits of Standing as a Rehab Intervention**. University of Toronto Academic Physiatry Day, Toronto ON, October 12 2001. *(Podium)*
- P-69. **Craven BC**, Webber CE, McGillivray CF, Adachi JD: **The Accuracy and Reliability of Knee DEXA for Persons with SCI**. University of Toronto Academic Physiatry Day, Toronto ON, October 12, 2001. *(Poster)*

#### E1.4 Local - 15

- P-70. **Craven BC**, Giangregorio LM, Morris A, Popovic MR, Miyatani M, Tonack M, Alizdeh-Meghrazi M, Totosy De Zepetenek JO: **Wave vs. Juvent Whole Body Vibration: Feasibility and Usability for People with SCI**. TRI Annual Research Day, Toronto ON, November 28 2007. *(Poster)*
- P-71. **Craven BC**, Giangregorio LM, Popovic MR, Tonack M, Boschen K, Thrasher A, Lepper K: **Study Design and the Intervention Determines the Screening to Recruitment Ratio in SCI Research**. TRI Annual Research Day, Toronto ON, November 28 2007. *(Poster)*
- P-72. **Craven BC**, Hawker GA, Jamal S, Davis A, Bugaresti JM: **Bisphosphonate Therapy for Treatment of patients with Sublesional Osteoporosis after Spinal Cord Injury: A retrospective cohort study**. TRI Annual Research Day, Toronto ON, November 28 2007. *(Poster)*
- P-73. **Craven BC**, Kinsey JM, Kaiser A, Brown A, McGillivray CF: **The Good, the Bad, and the Ugly: Recruiting for Spinal Cord Injury Clinical Trials**. TRI Annual Research Day, Toronto ON, November 28 2007. *(Poster)*
- P-74. Brown A, **Craven BC**, Hawryluk M: **DXA Anomalies in SCI Patients and Their Impact on BMD Interpretation**. TRI Annual Research Day, Toronto ON, November 28 2007. *(Poster)*
- P-75. **Craven BC**, Miyatani M, McGillivray CF, Loewenberger E, Buchholz A, Adachi JD: **Dietary Calcium Intake of Persons with Spinal Cord Injury: An Observational Study**. TRI Annual Research Day, Toronto ON, November 29 2006. *(Poster)*
- P-76. Miyatani M, Adeel K, Oh P, Popovic MR, **Craven BC**: **Arterial Stiffness (Pulse Wave Velocity: PWV) in Persons with Spinal Cord Injury**. TRI Annual Research Day, Toronto ON, November 29 2006. *(Poster)*
- P-77. **Craven BC**, Adachi JD, Bugaresti JM, Goldsmith C, Johnston R, McGillivray CF, Nantais T, Pepper J, Webber CE: **Conventional Versus Innovative Standing Frame for the Treatment of Osteoporosis in Persons with Spinal Cord Injury**. TRI Annual Research Day, Toronto ON, October 6 2005. *(Poster)*
- P-78. Tonack M, Hitzig SL, **Craven BC**, Campbell KA, Boschen KA, McGillivray CF, Richards K, Johnson M: **Long-Term Follow-up after Spinal Cord Injury in Canada**. TRI Annual Research Day, Toronto ON, October 6 2005. *(Poster)*

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- P-79. McGillivray CF, Hitzig SL, Tonack M, Krassioukov A, **Craven BC**, Greene C, Fehlings MG: **Autonomic Dysreflexia – Evaluating Knowledge Among Consumers and Health Practitioners**. TRI Annual Research Day, Toronto ON, October 6 2005. *(Poster)*
- P-80. Hitzig SL, Flett H, Tonack M, **Craven BC**, McGillivray CF, Greene C, Greves J, Johnson M, Catz A, Itzkovich M, Beiring-Sorenson F: **Evaluation of the 3<sup>rd</sup> Version of the Spinal Cord Independence Measure: Reliability and Sensitivity to Functional Changes**. TRI Annual Research Day, Toronto ON, October 6 2005. *(Poster)*
- P-81. **Craven BC**. **How and When to Apply to the Health Canada Special Access Program**. 4AP Open House, Toronto Rehab, Lyndhurst Centre, August 4 2004. *(Workshop)*
- P-82. **Craven BC**, **Spasticity After SCI**. CPA Peer Connections, Toronto ON, May 27 2004. *(Podium)*
- P-83. Masanic C, **Craven BC**: **Brain Injury and Spinal Cord Injury**. University of Toronto, Undergraduate Medical Student Trauma Week, March 10 2004. *(Podium)*
- P-84. **Craven BC**. **Bisphosphonates for Treatment of Sublesional Osteoporosis after Spinal Cord Injury: A Retrospective Cohort Study**. Clinical Epidemiology Grand Rounds, University Health Network, December 15 2003. *(Podium)*
- P-85.\* Mittmann N, **Craven BC**, Gordon M, Hassouna M, MacMillan R, Lanctôt KL: **Erectile Dysfunction in Spinal Cord Injury: A Cost-Utility Analysis**. Annual Conference of The Canadian Association for Population Therapeutics, March 30 2003. *(Poster –Janssen Ortho Award for “Best Poster” presentation)*
- P-86. **Craven BC**, Adachi JD, McGillivray CF, Pepper J, Johnston R, Nantais T: **Development of Postural Retraining Protocol for Persons with SCI: Review of Literature**. University of Toronto Physiotherapy Day, Toronto ON, March 2000. *(Poster)*

## **E2.0 INVITED SPEAKER**

### **E2.1 International -11**

- I-1. **“Whole Body Vibration Clinical and Research Applications.”** 2009 Association of Academic Physiatry Annual Meeting, Colorado Springs CO, USA, February 26-28 2009. *(45 Minutes)*
- I-2. **“Treatment of Sublesional Osteoporosis after SCI: Current Evidence, Practice Patterns, Outcome Measures and Novel Therapies.”** 2008 Joint American Congress of Rehabilitation Medicine (ACRM) & American Society of NeuroRehabilitation (ASNR) Joint Educational Conference, Toronto ON, October 15-19 2008. *Faculty: Cathy Craven MD, Lora Giangregorio PhD, Leslie Morse DO*
- I-3. **“The Importance of Screening for Secondary Causes of Osteoporosis among Patients with Spinal Cord Injury.”** Congress on Spinal Cord Medicine and Rehabilitation, Orlando FL, USA, August 13 2008.

- I-4. **“Risedronate for Prevention of Sublesional Osteoporosis after SCI: A Randomized, Double Blind, Multicentre RCT.”** Joint ASIA - ISCOS Meeting, Boston MA, USA, June 1-4 2006.
- I-5. **“Medical Complications of Spinal Cord Injury: An FES User’s Guide,”** IFESS Conference, Montreal, PQ, Canada, July 5 2005. (*Pre-Conference Workshop – 3 hours*)
- I-6. \* **“Areal and Volumetric BMD in SCI Women: A Twin Study.”** Interurban Spinal Cord Conference Kingston ON, Canada, 2005. (*\*Award Recipient*)
- I-7. **“The Pitfalls of DEXA Measures of Bone Mineral Density after SCI.”** American Paraplegia Society Conference, Las Vegas NV, USA, September 8 2004.
- I-8. **“Articulating the Vision for a Multi-Centre Spinal Cord Injury Clinical Trials Network: Lessons Learned.”** New York Biotechnology Association Panel Successful Clinical Trial Recruitment, New York NY, USA, March 1 2004.
- I-9. **“CaM-SCI: Articulating the Vision for a Canadian Multi-Centre Spinal Cord Injury Trials Network.”** Interurban Spinal Cord Conference, London ON, Canada, October 3 2003.
- I-10. **“Osteoporosis After SCI: A Review of Literature and Current Ontario Research Initiatives.”** Spinal Cord Interurban Conference, Rochester NY, USA, May 4-5 2001.
- I-11. **“Development of a Tool for Measuring Regional Bone Mineral Density around the Knee.”** ISCD Conference, Houston TX, USA, March 13-17 2001.

## **E2.2 National -17**

- I-12. **“Whole Body Vibration As An Alternate to Therapeutic Exercise After Spinal Cord Injury.”** University of Calgary PM&R Grand Rounds, Calgary AB, Canada, December 10-12 2008. (*Podium*)
- I-13. **“Top 6 Articles You Should Have Read- Treadmill Training After SCI: It’s Not Just About the Walking”** 3rd National SCI Conference, Toronto ON, Canada, November 6-7 2008. (*Podium*)
- I-14. **“SCIRE Version 2.0 Evidence Based Practice for Neurogenic Bladder, Osteoporosis and Spasticity”.** 3rd National SCI Conference, Toronto ON, Canada, November 6-7 2008. (*Workshop*)  
*Faculty Wolfe DL, Ethans K, Craven BC, Townsend A, Hsieh J*
- I-15. **“Sublesional Osteoporosis – A New Treatment Paradigm.”** 56<sup>th</sup> Annual CAPMR-SCI Pre conference Symposium, Fredericton NB, Canada, June 11 2008. (*Podium*)
- I-16. **“Standing: Rethinking The Mobility Paradigm”** 5<sup>th</sup> Colloque Quebecois Positionnement et Mobilite, Quebec, Canada, 28 April 2008. (*Podium*)
- I-17. **“Medical Complications After Spinal Cord Injury”.** PM&R National Review Course, Toronto ON, Canada, April 4 2008. (*Podium*)

- I-18. **“Sublesional Osteoporosis What’s New in an Old Disease.”** University of Calgary PM&R Grand Rounds, Calgary AB, Canada, November 15 2008. (*Podium*)
- I-19. **“Fracture Threshold and Fragility Fracture Risk after SCI.”** The Top Six Rehab Articles You Should Have Read in 2005>” 2<sup>nd</sup> National Spinal Cord Rehabilitation Conference, Toronto, ON, Oct 25-26 2006. (*Podium*)
- I-20. **“Neuroanatomy for Dummies.”** 1st National Spinal Cord Rehabilitation Conference, Toronto ON, Canada, September 17 2004. (*Podium*)
- I-21. **“Bisphosphonates for Treatment of Sublesional Osteoporosis After SCI.”** 1st National Spinal Cord Rehabilitation Conference, Toronto ON, Canada, September 17 2004. (*Podium*)
- I-22. **“DEXA Measurement and Therapeutic Management of Sublesional Osteoporosis After SCI.”** CAPM&R Annual Meeting, Charlottetown PEI, Canada, June 17 2004. (*Podium*)
- I-23. **“Sexuality after SCI.”** 3rd Canadian Comprehensive PM&R Review Course, Toronto, ON, Canada, March 26 2004. (*Podium*)
- I-24. **“Medical Complications Post SCI.”** 3rd Canadian Comprehensive PM&R Review Course, Toronto, ON, March 26 2004. (*Podium*)
- I-25. **“Linking Research with Clinical Practice; The Toronto Rehab DEXA Experience.”** CAPM&R / RehabNet, Hecla Island, MB, Canada, June 14 2002. (*Podium*)
- I-26. **“Implementing Technology in Your Rehab Centre: Identification and Resolution of Challenge.”** CAPM&R Annual Meeting, Hecla Island MB, Canada, June 12 2002. (*Podium*)
- I-27. **“Bone Density Case Studies.”** CAPMR SCI Special Interest Group Workshop Leader, Halifax NS, Canada, June 16 2001. (*Podium*)
- I-28. **“Osteoporosis after Spinal Cord Injury: An Emerging Clinical Challenge.”** 45th CAPMR Annual Meeting, Canada, 1997. (*Podium*)

### **E2.3 Provincial - 10**

- I-29. **“SCI-IMPACT A Quebec-Ontario Interprovincial Initiative for Investigating Secondary Health Complications After Spinal Cord Injury.”** ONF-REPAR Meeting, Toronto ON, Dec 15, 2008.
- I-30. **“Overview of the SCI Solutions Network Environmental Scan (E-SCAN) Activities.”** Ontario Data Strategy Meeting, Toronto ON, July 28, 2008.
- I-31. **“Bone up on Bone Health.”** 6<sup>th</sup> Annual Charles Tator/ Barbara Turnbull Lectureship Series in Spinal Cord Injury, Toronto ON, November 23 2007.

- I-32. **“Recognition and Management of Sublesional Osteoporosis after SCI.”** Osteoporosis Canada, Toronto ON, October 10 2007.
- I-33. **“Sublesional Osteoporosis After SCI.”** Advances in Neurotrauma Conference.” Toronto ON, Carlu, June 21, 2007.
- I-34. **“Health Promotion: Bone Health.”** Hamilton Health Sciences Spinal Cord Injury Exchange, Women’s Health and Spinal Cord Injury, Hamilton ON, April 21 2006.
- I-35. **“Standing as a Rehabilitation Intervention.”** Queens’ University Department Physical Medicine & Rehabilitation Annual Research Day, Kingston ON, May 4 2005. (*Workshop*)
- I-36. **“Bisphosphonates for Treatment of Sublesional Osteoporosis after SCI.”** Queen’s University Department of Physical Medicine & Rehabilitation Annual Research Day, Kingston ON, Mark Smith Memorial Lectureship, May 4 2005.
- I-37. **“Articulating the Vision for a Canadian Multicentre Spinal Cord Injury Clinical Trials Network (CaM-SCI).”** Ontario Rehab Research Network Meeting, Toronto ON, February 19 2004.
- I-38. **“Standing as a Rehabilitation Intervention: Facts and Fallacies,”** CPA 2<sup>nd</sup> Annual Meeting of Experts Educational Conference, Toronto ON, March 5 2003. (*Panel Member*)
- I-39. **“Bone Health and SCI”**, CPA First Annual Meeting of Experts – Spinal Cord Injury and Acquired Brain Injury Conference, Toronto ON, March 20 2002.

#### **E2.4 Local -7**

- I-40. **“ASIA Examination for Engineers.”** Toronto Rehab Activity Team Research Rounds, Toronto ON, October 11 2007.
- I-41. **“The Pitfalls of DEXA Measures of Bone Mineral Density After Spinal Cord Injury.”** Toronto Rehab Researchers’ Network Presentation, Toronto ON, Oct 21 2004.
- I-42. **“Bone Density and Risk of Fractures in Children with Spina Bifida.”** Web Cast for Bloorview MacMillan Children’s Centre, Toronto ON, April 20 2004.
- I-43. **“Standing as a Rehab Intervention.”** 4th Annual Discharge & Beyond, Excel Care Conference, Burlington ON, September 12 2003.
- I-44. **“Managing Spasticity and Osteoporosis for Patients with SCI in the Community.”** SCI Care Workshop, Hamilton ON, May 13 2002.
- I-45. **“Impact of Impairments on the Safety and Ability to Exercise.”** Exercise In Neurologic Populations, Toronto ON, Sept 21 2001.

- I-46. **“Exercise and SCI: The Good the Bad and the Ugly.”** “Discharge and Beyond” Fall Spinal Cord Conference, Burlington ON, September 14 2001.

### **E3.0 ROUNDS**

#### **E3.1 University - 11**

- R-1. **“Risedronate for Prevention of Sublesional Osteoporosis: The Controversies Abound.”** McMaster University PMR Grand Rounds, Hamilton ON, September 30 2006.
- R-2. **“Osteoporosis in SCI.”** University of Toronto, PM&R Grand Rounds, Toronto ON, October 21 2005.
- R-3. **“Clinical Densitometry: Its Role in Physiatry Practice.”** McMaster University PMR Grand Rounds, Hamilton ON, Oct 1 2001.
- R-4. **“Prevention of Musculoskeletal Injuries in Wheelchair Athletes: The GHM Experience.”** University of Toronto Division of Physiatry Grand Rounds, Toronto ON, May 18 2001.
- R-5. **“Tracking the Development of a Tool for the Measuring Regional Bone Mineral Density (BMD) Around the Knee.”** University of Toronto Physiatry Research Day, West Park Hospital, Toronto ON, February 2 2001.
- R-6. **“Development of a Postural Retraining Protocol for Persons with SCI.”** University of Toronto, 7<sup>th</sup> Annual Academic Physiatry Day, Toronto ON, Sept 29 2000.
- R-7. **“Calcium Intake After Spinal Cord Injury: An Observational Study.”** University of Toronto, 5<sup>th</sup> PMR Annual Research Day, Toronto ON, November 1999.
- R-8. **“Osteoporosis after Spinal Cord Injury: Prevention and Treatment Strategies.”** Sunnybrook and Women’s College Health Science Centre Grand Medical Rounds, Toronto ON, October 1999.
- R-9. **“Regional DEXA and Q-CT in Incomplete Quadriplegia: A Pilot Study.”** McMaster University, Division of Physical Medicine & Rehabilitation Research Day, Hamilton ON, December 1998.
- R-10. **“Osteoporosis After Spinal Cord Injury: It’s a Snap!”** University of Toronto, Division of Physiatry Grand Rounds, Toronto ON, November 1998.
- R-11. **“Bone Loss After Spinal Cord Injury: A Review of Literature.”** McMaster University Division of Physical Medicine & Rehabilitation Research Day, Hamilton ON, April 1996.

#### **E3.2 Hospital - 7**

- R-12. **“Treatment of Sublesional Osteoporosis after SCI.”** Clinical Pharmacology Grand Rounds, Sunnybrook Hospital, Toronto ON, March 9 2006.

Beverley Catharine (Cathy) Craven

- R-13. **"Anatomy of a Methods Section."** Toronto Rehab Research Staff, Toronto ON, November 2005.
- R-14. **"Where Do You Fit?"** SCRP Physiotherapists, Toronto ON March 2002.
- R-15. **"The NOIR" Classification of Data."** SCRP Staff, Toronto ON, January 2002.
- R-16. **"Graphing Data: The ABCs based on Data Type"** Toronto Rehab Research Staff, Toronto ON, March 2002.
- R-17. **"How to Write a Structured Abstract."** Toronto Rehab Research Staff, Toronto ON, January 2001.
- R-18. **"Osteoporosis after Spinal Cord Injury."** Toronto Rehab Staff Education Sessions, Toronto ON, 1998.

### **E3.3 Consumer Presentations - 12**

- R-19. **"It's Good to be Dense."** CPA Knowledge Mobilization Seminar, London ON, April 12, 2007.
- R-20. **"It's Good to be Dense."** CPA Knowledge Mobilization Seminar, Toronto ON, March 8, 2006.
- R-21. **"Spasticity."** CPA Peer Connections, Hamilton ON, May 25 2005.
- R-22. **"The Users' Guide to Erectile Dysfunction and Sex After SCI,"** CPA Ontario Sex, Wheels and Relationship Forum, Toronto ON, October 6, 2005.
- R-23. **"Spasticity After SCI."** CPA Peer Connections, Toronto ON, May 27, 2004.
- R-24. **"Life After SCI."** *for Health* on the Line with Avery Haines, December 4 2004.
- R-25. **"Golden Horseshoe Marathon."** CBC's Television Series, "Moving On," Fall 2003.
- R-26. **"Bone Health and Aging."** Women with Spinal Cord Injury Teleconference, Toronto ON, May 26 2003.
- R-27. **"An Overview of Cure and Care Research Activities."** Patient Education, TRI, Toronto ON, August 8 2002.
- R-28. **"Conventional Standing Frame vs. Vibrating Platform Standing Frame for Treatment of Osteoporosis after SCI."** Consumer Results Session, Toronto ON, June 26 2002.
- R-29. **"Heat Stroke Prevention in Wheelchair Marathon Athletes: Consumer Presentation."** The Golden Horseshoe Marathon Experience, Hamilton ON, June 1999.
- R-30. **"How Much Calcium is Enough?"** SCI Consumer Education Workshop, Toronto ON, 1999.

## G. GRADUATE STUDENT SUPERVISION

### G1.0 Masters Student Supervision

Student	Degree Type	Thesis Topic	Supervision Period	Completion	Supervisory Role
Kayla Hummel	MSc (Kinesiology)	Vitamin D Levels after SCI	2009-2011		Committee Member
Farhana Jaffer	MSc (Rehab Science)	The Relationship of Walking Stability to Community Ambulation of Individuals with Incomplete SCI	2007-2009		Committee Member
Milad Alizadeh-Mehgrazi	MASc Biomedical Engineering	Whole Body Vibration	May 2007	June 2009	Committee Member
Julia Totosy De Zepetenek	MSc Kinesiology	Independent Study WBV and Osteoporosis	Nov` 2007- Sept 2008	Dec 2009	Supervisor
Julia Totosy De Zepetenek	MSc Kinesiology	Whole Body Vibration and SCI	June 2008 – June 2009	Dec 2009	Committee Member
Tracy Lee	Masters of Applied Sciences & Engineering		Jan 2002 - June 2002	Sept 2002	Ad Hoc Advisor
Juan Moreno	Masters of Health Sciences	Bone Mineral Density of the Distal Femur and Proximal Tibia	Jan 2000 - Sept 2001	Sept 2001	Co-Supervisor
Rob Pineau	Masters of Kinesiology	Body Weight Support Treadmill Training	Jan 1999 - Sept 1999	August 2001	Ad Hoc Supervisor

### G2.0 PhD Student Supervision

Student	Degree Type	Thesis Topic	Supervision Period	Completion	Supervisory Role
Sara Guilcher	PhD Clinic EPI	Health Service Utilization in SCI	2007-2009		Committee Member

### G3.0 Post Doctoral Supervision

<b>Student</b>	<b>Topic</b>	<b>Supervisory Role</b>	<b>Start</b>	<b>Completion</b>
Masae Miyatani	Pulse Wave Velocity Muscle and Bone Morphology Blood Flow	Co-Supervisor with M.Popovic	October 2005	March 2009
Alan Morris	Spasticity	Co-Supervisor with M Popovic	December 2004	May 2007
Lora Giangregorio	BWSTT Volumetric BMD FES Walking	Co-Supervisor with M.Popovic	October 2004	Aug 2006
Andrea Furlan	Spinal Cord Injury- Clinical	Outpatient Clinics	April 2007	May 2007