

Select Publications by ICORD Researchers, 2013-14

An appendix to ICORD's Annual Report for 2013-14. Papers relating to SCI have been highlighted.

Hugh Anton

Grant C, Goldsmith C, **Anton HA**, *Inpatient Stroke Rehabilitation Lengths of Stay in Canada Derived from the National Rehabilitation Reporting System, 2008 & 2009. Archives of Physical Medicine and Rehabilitation.* 2014;95:74-78.

Gary Birch

Farhad Faradji, Rabab K Ward, and **Gary E Birch**, *Using Autoregressive Models of Wavelet Bases in the Design of Mental Task-based BCIs, in Brain-Computer Interface Systems - Recent Progress and Future Prospects*, ed. Reza Fazel-Rezai, InTech, ISBN 978-953-51-1134-4, 270 pages, June 2013.

Paul Bishop

Quon JA1, Sobolev BG, Levy AR, Fisher CG, **Bishop PB**, Kopec JA, Dvorak MF, Schechter MT. *The effect of waiting time on pain intensity after elective surgical lumbar discectomy. Spine J.* 2013 Dec;13(12):1736-48. doi: 10.1016/j.spinee.2013.05.038. Epub 2013 Jul 11

Bishop PB, Quon JA, Arthur B. *Does underlying spine pathology affect outcome of clinical practice guideline-based treatment for acute lower back pain? I.S.S.L.S. Annual Meeting Scottsdale* May 2013

Quon J, **Bishop P**, Arthur B: *The Chiropractic Hospital-based Interventions Research Outcomes (CHIRO) Study – Part 2: the consistency of outcomes between chiropractors treating patients with acute lower back pain. J Manip Phy Ther Best Paper Award 2013*

Jaimie Borisoff

Cragg JJ, VK Noonan, M Dvorak, A Krassioukov, GBJ Mancini, and **JF Borisoff**. *Spinal cord injury and Type 2 Diabetes: results from a population health survey.* 2013. *Neurology.* Nov 19;81(21):1864-8. PMID: 24153440

Mark Carpenter

Tokuno CD, Cresswell AG, Thorstensson A, **Carpenter MG**. *Recruitment order of the abdominal muscles varies with postural task. Scand J Med Sci Sport* 2013; 23:349-54.

Horslen BC, Murnaghan CD, Inglis JT, Chua R, **Carpenter MG**. *The effects of postural threat on spinal stretch reflexes: Evidence for increased muscle spindle sensitivity? J Neurophysiol* 2013;110:899-906.

Campbell AD, Squair JW, Chua R, Inglis JT, **Carpenter MG**. *First trial and StartReact effects induced by balance perturbations to upright stance. J Neurophysiol* 2013;110:2236-45.

Murnaghan CD, Squair JW, Chua R, Inglis JT, **Carpenter MG**. *Cortical contributions to control of posture during unrestricted and restricted stance? J Neurophysiol* 2014;111:1920-1926.

Victoria Claydon

N Udpa, R Ronen, D Zhou, J Liang, T Stobdan, O Appenzeller, Y Yin, Y Du, L Guo, R Cao, Y Wang, X Jin, C Huang, W Jia, D Cao, G Guo, **VE Claydon**, R Hainsworth, JL Gamboa, M Zibenigus, G Zenebe, J Xue, S Liu, KA Frazer, Y Li, V Bafna, GG Haddad *Whole genome sequencing of Ethiopian highlanders reveals conserved hypoxia tolerance genes. Genome Biology,* 15: R36.

HJC Ravensbergen, S de Groot, MWM. Post, HJ Slootman, LHV van der Woude, **VE Claydon** *Cardiovascular function after spinal cord injury: prevalence and progression of dysfunction during inpatient rehabilitation and the 5 years after discharge.* *Neurorehabilitation and Neural Repair*, 28: 219-229.

BH Shaw and **VE Claydon** *The relationship between orthostatic hypotension and falling in older adults.* *Clinical Autonomic Research*, 24: 3-13.

C Gibbons, W Cheshire, A Barboi, B Levine, B Olshansky, L Kinsella, **VE Claydon**, C Crandall, G Fink, M Joyner, V Macefield, L Norcliffe-Kaufmann, R Freeman, S Raj, J Stewart, P Sandroni, H Kaufmann, T Chelimsky *Endovascular procedures for the treatment of autonomic dysfunction.* *Clinical Autonomic Research*, 24: 1-2.

HJC Ravensbergen, SA Lear, **VE Claydon** *Waist circumference is the best index for obesity in individuals with spinal cord injury.* *Journal of Neurotrauma*, 31: 292-300.

Peter Cripton

Dressler D, Dennison CR, **Cripton PA.** *Development of an advanced football helmet to provide increased protection against concussion.* *Mechanism of Concussion in Sports*, STP 1552, Alan Ashare and Mariusz Ziejewski, Eds., pp. 1–18, doi:10.1520/STP155220120172, ASTM International, West Conshohocken, PA 2014

Newell RS, Siegmund GP, Blouin J-S, Street J, **Cripton PA.** *Cervical Vertebral Realignment When Voluntarily Adopting a Protective Neck Posture Spine.* 2014. (epub ahead of print)

Cripton PA, Dressler DM, Stuart CA, Dennison CR, Richards D. *Bicycle helmets are highly effective at preventing head injury during head impact: Head-form accelerations and injury criteria for helmeted and unhelmeted impacts.* *Accident Analysis & Prevention.* 2014;70:1–7.

Helgason B, S Gilchrist, Ariza O, Chak JD, Zheng G, Widmer RP, Ferguson SJ, Guy P, **Cripton PA.** *Development of a balanced experimental-computational approach to understanding the mechanics of proximal femur fractures.* *Med Eng Phys.* 2014. (epub ahead of print)

Shetye SS, Troyer KL, Streijger F, Lee JHT, Kwon BK, **Cripton PA,** Puttlitz CM. *Nonlinear viscoelastic characterization of the porcine spinal cord.* *Acta Biomaterialia.* 2014;10(2):792–797.

Van Toen C, Melnyk AD, Street J, Oxland TR, **Cripton PA.** *The effect of lateral eccentricity on failure loads, kinematics, and canal occlusions of the cervical spine in axial loading.* *Journal of Biomechanics.* 2013. (epub ahead of print). doi 10.1016/j.jbiomech.2013.12.001

Cripton PA. *“Perspective: Protecting the neck.”* *Nature.* 2013;503(7475):S13.

Gilchrist S, Guy P, **Cripton PA.** *Development of an Inertia-Driven Model of Sideways Fall for Detailed Study of Femur Fracture Mechanics.* *Journal of Biomechanical Engineering.* 2013;135(12):121001–121001.

Jones CF, Lee JHT, Burstyn U, Okon EB, Kwon BK, **Cripton PA.** *Cerebrospinal Fluid Pressures Resulting From Experimental Traumatic Spinal Cord Injuries in a Pig Model.* *Journal of Biomechanical Engineering.* 2013;135(10):101005–101005.

Namjoshi DR, Good C, Cheng WH, Panenka W, Richards D, **Cripton PA,** Wellington CL. *Towards clinical management of traumatic brain injury: a review of models and mechanisms from a biomechanical perspective.* *Disease models & mechanisms.* 2013;6(6):1325–1338.

Newell RS, Blouin J-S, Street J, **Cripton PA,** Siegmund GP. *Neck posture and muscle activity are different when upside down: A human volunteer study.* *Journal of Biomechanics.* 2013;46(16):2837–2843.

Saari A, Dennison CR, Zhu Q, Nelson TS, Morley P, Oxland TR, **Cripton PA,** Itshayek E. *Compressive follower load influences cervical spine kinematics and kinetics during simulated head-first impact in an in vitro model.* *Journal of Biomechanical Engineering.* 2013;135(11):111003.

Melnyk AD, Kingwell SP, Zhu Q, Chak JD, **Cripton PA**, Fisher CG, Dvorak MF, Oxland TR. *An in vitro Model of Degenerative Lumbar Spondylolisthesis*. *Spine* 2013;(epub ahead of print April 3, 2013)

Lee JHT, Jones CF, Okona EB, Anderson L, Tigchelaara S, Koonera P, Godbey T, Chu B, Gray G, Hildebrandt R, **Cripton PA**, Tetzlaff W, Kwon BK, *A Novel Porcine Model of Traumatic Thoracic Spinal Cord Injury*. *Journal of Neurotrauma*. 2013;30(3):142-59.

Marcel Dvorak

Noonan V, Phalgun J, **Dvorak MF**, Fehlings M, Craven C, Linassi G, Fourney D, Kwon B, Bailey C, Tsai E, Brian D, Ahn H, Tsui D, Thorogood N. *Meeting the Privacy Requirements for the Development of a Multi-Centre Patient Registry in Canada: The Rick Hansen Spinal Cord Injury Registry, to Healthcare Policy*. *Healthc Policy*. 2013 May; 8(4): 87-99. CA.

Kong CY, Hosseini AM, Belanger LM, Ronco JJ, Paquette SJ, Boyd MC, Dea N, Street J, Fisher CG, **Dvorak MF**, Kwon BK. *A Prospective Evaluation of Hemodynamic Management in Acute Spinal Cord Injury Patients*. *Spinal Cord*. 2013 Jun; 51(6): 466-71. CA.

Melnyk AD, Kingwell SP, Zhu Q, Chak JD, Cripton PA, Fisher CG, **Dvorak MF**, Oxland TR. *An in vitro model of degenerative lumbar spondylolisthesis*. *Spine*. 2013 Jun 15; 38(14): E870-7. CA.

Sjovold SG, Mattucci S, Choo AM, Liu J, **Dvorak MF**, Kwon BK, Tetzlaff W, Oxland TR. *Histological Effects of Residual Compression Sustained for 60 Minutes at Different Depths in a Novel Rat Spinal Cord Injury Contusion Mode*. *J Neurotrauma*. 2013 Aug 1; 30(15): 1374-84.

Street JT, Noonan VK, Cheung A, Fisher CG, **Dvorak MF**. *Incidence of acute care adverse events and long-term health-related quality of life in patients with TSCI*. *Spine J*. 2013 Aug 24. [Epub ahead of print] SA.

Santos A, Soril L, Fallah N, **Dvorak M**, Noonan V. *Modeling the Patient Journey from Injury to Community Reintegration for Persons with Acute Traumatic SCI in a Canadian Centre*. *PLoS One*. 2013. Aug 30; 8(8):e72552. CA

Noreau L, Cobb J, Belanger LM, **Dvorak MF**, Noonan VK, Leblond J. *Development and Assessment of a Community Follow-Up Questionnaire for the Rick Hansen Spinal Cord Injury Registry*. *Arch Phys Med Rehabil*. 2013 Sep; 94(9): 1753-65. SA.

Schouten R, Keynan O, Lee RS, Street JT, Boyd MC, Paquette SJ, Kwon BK, **Dvorak MF**, Fisher CG. *Health-related quality-of-life outcomes after thoracic (T1-T10) fractures*. *Spine J*. 2013 Oct 15 [Epub ahead of print].

Bailey CS, Urquhart JC, **Dvorak MF**, Nadeau M, Boyd M, Thomas K, Kwon BK, Gurr KR, Bailey SI, Fisher CG. *Orthosis versus No Orthosis for the treatment of thoracolumbar burst fractures without neurological injury: A multicenter prospective randomized equivalence trial*. *Spine J*. 2013 Oct 30 [Epub ahead of print]. CA.

Cheung A, Thorogood NP, Noonan VK, Zhong G, Fisher CG, **Dvorak MF**, Street J. *Onset, Risk Factors, and Impact of Delirium in Patients with Traumatic Spinal Cord Injury*. *J Neurotrauma*. 2013 Nov 1; 30(21): 1824-9. CA.

Varccaro AR, Oner C, Kepler CK, **Dvorak M**, Schnake K, Bellabarba C, Reinhold M, Aarabi B, Kandziara F, Chapman J, Shanmuganathan R, Fehlings M, Vialle L; for the AOSpine Spinal Cord Injury & Trauma Knowledge Fom. *AOSpine thoracolumbar spine injury classification system: Fracture description, neurological status and key modifiers*. *Spine (Phila Pa 1976)*. 2013 Nov 1; 38(23): 2028-3. CA.

Cragg JJ, Noonan VK, **Dvorak M**, Krassioukov A, Mancini GB, Borisoff JF. *Spinal cord injury and type 2 diabetes: Results from a population health survey*. *Neurology*. 2013 Nov 19; 81(21): 1864-8. CA,

Quon JA, Sobolev BG, Levy AR, Fisher CG, Bishop PB, Kopec JA, **Dvorak MF**, Schechter MT. *The effect of waiting time on pain intensity after elective surgical lumbar discectomy.* Spine J. 2013 Dec 1; 13(12): 1736-48. CA.

Aarabi B, Mirvis S, Shanmuganathan K, Vaccaro AR, Holmes CJ, Akhtar-Danesh N, Fehlings MF, **Dvorak MF**. *Comparative effectiveness of surgical versus nonoperative management of unilateral, nondisplaced, subaxial cervical spine facet fractures without evidence of spinal cord injury.* J Neurosurg Spine. 2014 Jan 3. [Epub ahead of print]. SA.

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Stacy Elliott

Elliott S. *Investigation and treatment of Sexual Dysfunction in Autonomic Diseases : Autonomic Failure: A Textbook of Clinical Disorders of the Autonomic Nervous System – 5th Edition, Oxford University Press, Editors: Professor Chris Mathias, Sir Roger Bannister June 2013*

Elliott SL. *Chapter 14: Sexuality and Fertility after Spinal Cord Injury . Essentials of Spinal Cord Injury, editors Fehlings, MG, Vaccaro A, Boakye M, Rossingnol S, Burns A and DiTunno J. Thieme Medical Publishers, Inc New York – Stuttgart 2013:143 – 157.*

Janice Eng

Tang A, **Eng JJ**, Brasher PM, Madden KM, Mohannadi A, Krassioukov AV, Tsang TSM. *Physical activity correlates with arterial stiffness in community-dwelling individuals with stroke.* J Stroke Cerebrovasc Dis 2014;23:259-66

Tang A, **Eng JJ.** *Physical training after stroke.* Phys Ther Jan;94(1):9-13.

Murray DK, Sacheli MA, **Eng JJ**, Stoessl AJ. *The effects of exercise on cognition in Parkinson's disease: A systematic review.* Translational Neurodegeneration. 2014;3(1):5.

Celebrini RG, **Eng JJ**, Miller WC, Ekegren CL, Johnston JD, Depew TA, MacIntre DL. *The effect of a novel movement strategy in decreasing ACL risk factors in female adolescent soccer players: A randomized controlled trial.* Canadian Journal of Sports Medicine. 2014;24:134-41.

Connell LA, McMahon NE, **Eng JJ**, Watkins CL. *Prescribing upper limb exercises after stroke: a survey of current UK therapy practice.* J Rehabil Med. 2014;46:212-8.

Simpson LA, **Eng JJ**, Backman CL, Miller WC. *Rating of Everyday Arm-Use in the Community and Home (REACH) Scale for capturing affected arm-use after stroke: development, reliability, and validity.* PLoS ONE 2013;8(12):e83405. doi:10.1371/journal.pone.0083405

Tang A, **Eng JJ**, Tsang TSM, Krassioukov AV. *Cognition and motor impairment correlates with exercise test performance after stroke.* Medicine and Science in Sports and Exercise 2013 Apr;45(4):622-7.

Simpson LA, **Eng JJ.** *Functional recovery following stroke: Capturing changes in upper extremity function.* Neurorehabilitation and Neural Repair. 2013;27:240-250.

Rushton WP, Miller WC, Kirby RL, **Eng JJ.** *Measure for the assessment of confidence with manual wheelchair use (WheelCon-M) version 2.1: Reliability, Validity and Responsiveness.* J Rehabil Med 2013 Jan;45(1):61-7.

Sakakibara BM, Miller WC, **Eng JJ**, Backman CL, Routhier F. *Preliminary examination of the relationship between participation and confidence in older manual wheelchair users.* Arch Phys Med Rehabil 2013 Apr;94(4):791-4.

Noble JW, **Eng JJ**, Boyd LA. *Effect of visual feedback on brain activation during motor tasks: an FMRI study.* Motor Control. 2013;17:298-312.

Giesbrecht EM, Miller WC, Eng JJ, Mitchell IM, Woodgate RL, Goldsmith CH. *Enhancing participation in the community by improving wheelchair skills (EPIC Wheels): A feasibility study.* Trials 2013 Oct 24;14(1):350

Susan Forewell

Laliberte Rudman, D & **Forwell, SJ.** *Social policy and occupational science.* Journal of Occupational Science, 20.3, 2013. p. 2

Forwell, SJ, Copperman, L, Hugos, C & Ghahari, S *Chapter 35 - Neurodegenerative Diseases.* Occupational Therapy in Physical Dysfunction. Ed. C.A. Trombly and M. Vining Radomski. 7th Edition. Baltimore, Maryland: Lippincott Williams & Wilkins. 2014: 1076-1102.

Forwell, SJ *Chapter 17: Fatigue and MS.* Multiple Sclerosis and Related Disorders: Clinical Guide to Diagnosis, Medical Management, and Rehabilitation. Eds. A. Rae-Grant, R.J. Fox, F. Bethoux. New York:Demos Medical. 2013. 145-154.

Forwell, SJ & Perrin Ross, A. *Chapter 14: Self Care.* Multiple Sclerosis Rehabilitation: From Impairment to Participation. Ed. M. Finlayson. Taylor & Francis LLC. 2013: 327-354.

Finlayson, M, Lexell Mansson, E & **Forwell, SJ.** *Chapter 15: Domestic Life.* Multiple Sclerosis Rehabilitation: From Impairment to Participation. Ed. M. Finlayson. Taylor & Francis LLC. 2013: 355-380.

Tom Grigliatti

Bains, OS, Szeitz, A, Lubieniecka, JM, Cragg, GE, **Grigliatti, TA,** Riggs, WK, and Reid, RE. *A Correlation between cytotoxicity and reductase-mediated metabolism in cell lines treated with doxorubicin and daunorubicin.* Journal of Pharmacology and Experimental Therapeutics. 2013. PMID: 23995598

Lubieniecka, JM, Graham, J, Heffner, D, Mottus, R, Reid, R, Hogge, D, **Grigliatti, TA,** and Riggs, WK. *A discovery study of daunorubicin induced cardiotoxicity in a sample of acute myeloid leukemia patients prioritizes P450 oxidoreductase polymorphisms as a potential risk factor.* Frontiers in Genetics: Pharmacogenetics and Pharmacogenomics 4: 231-243. 2013 PMID: PMC3822292

Grigliatti, TA and Mottus, RA. *Genetic Position Effects: Where You Live Can be Important.* In: Encyclopedia of Genetics 2nd Edition (Stanley Maloy and Kelly Hughes, eds) Elsevier/Academic Press, San Diego, pp 418-421. 2013.

Sandra Hundza

Hundza S, Hook W, Harris C, Mahajan S, Leslie P, Spani C, Spalteholz L, Commandeur D, Livingston N. *Accurate and Reliable Gait Cycle Detection in Parkinson's Disease.* IEEE- Transactions on Neural Systems and Rehabilitation Engineering VOL. 22, NO. 1, JANUARY 2014

Domingo, A, Nakajima T, Lam T, Klimstra M, **Hundza SR.** *Constrained treadmill walking suppresses and phase modulates the flexor carpi radialis H-reflex.* J Mot Behav.46(1);49-57.

Nakajima T, Mezzarane R, Klarner T, Barss T, **Hundza SR,** Komiyama T, and Zehr EP. *Neural mechanisms influencing interlimb coordination during locomotion in humans: presynaptic modulation of forearm H-reflexes during leg cycling.* PLOS ONE Oct 18;8(10):e76313

Tal Jarus

Imam, B, **Jarus, T.** *Virtual Reality Rehabilitation from Social Cognitive and Motor Learning Theoretical Perspectives in Stroke Population.* Rehabilitation Research and Practice, October 227, 2013. Published, Jan 10, 2014, doi:10.1155/2014/594540.

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Piotr Kozlowski

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- Zhang Y, Moore GRW, Laule C, Bjarnason TA, **Kozlowski P**, Traboulsee A, Li DKB, *Pathological correlates of MRI texture heterogeneity in multiple sclerosis*, Annals of Neurology, 74(1), 91 – 99 (2013). PMID: 23939554
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- Moroz J, Wong C, Yung AC, **Kozlowski P**, Reinsberg S, *Rapid measurement of Arterial Input Function in mouse tail from projection phases*, Magnetic Resonance in Medicine, 71(1), 238 – 245 (2014). PMID: 23413008

Andrei Krassioukov

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Brian Kwon

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