

ICORD ANNUAL REPORT 2020-21

Appendix 1: Selected Publications

Michael Berger

Chapman K, Berger MJ, Doherty C*, Anastakis D, Baltzer H, Boyd K, . . . Yeung J. (2020). Recommendations for patients with complex nerve injuries during the COVID-19 pandemic. *Canadian Journal of Neurological Sciences / Journal Canadien Des Sciences Neurologiques*, 1-23. doi:10.1017/cjn.2020.191

Moreta MC, Fleet A, Reebye R, Mckernan G, Berger MJ, Sandarage R, Munin M,. Validity and reliability of the Modified Heckmatt scale in evaluating muscle changes under ultrasound in patients with spasticity. *Archives of Rehabilitation Research and Clinical Translation*. Available online 1 July 2020, 100071. doi:10.1016/j.arrct.2020.100071

Berger MJ, Dorey T, Nouraei H & Krassioukov AV (2020) Test-retest reliability of the Valsalva maneuver in spinal cord injury, *The Journal of Spinal Cord Medicine*, doi: 10.1080/10790268.2020.1798134

Chapman KM, Doherty C, Bristol SG, O'Connor R and Berger MJ. Access to allied health care services in Canadian interdisciplinary complex nerve injury programs. *Canadian Journal of Neurological Sciences*; 2020 May 26;1-12. doi: 10.1017/cjn.2020.98

Haldane CE, Frost G, Ogalo E, Bristol S, Doherty C, Berger MJ. Patient-reported outcomes following nerve transfer surgery for brachial plexus injury: A systematic review of the literature. *American Society for Peripheral Nerve Injury*, 2021.

Jaimie Borisoff

Khalili M, Eugenio A, Wood A, Van der Loos M, Mortenson WB, Borisoff J. Perceptions of power-assist devices: interviews with manual wheelchair users. *Disabil Rehabil Assist Technol*. 2021 Apr 27:1-11. doi: 10.1080/17483107.2021.1906963. Online ahead of print.PMID: 33904351

Ripat J, Giesbrecht E, Borisoff J, Sibley KM, Touchette A, Palsis R, Morales E, Ethans K, Li Y. Design of an mHealth application for winter mobility for mobility device users. *Disabil Rehabil Assist Technol*. 2021 Mar 30:1-8. doi: 10.1080/17483107.2021.1904014.

Wong RN, Stewart AL, Sawatzky B, Laskin JJ, Borisoff J, Mattie J, Sparrey CJ, Mortenson WB. Exploring exercise participation and the usability of the adaptive rower and arm crank ergometer through wheelchair users' perspectives. *Disabil Rehabil*. 2021 Mar 17:1-10. doi: 10.1080/09638288.2021.1894245.

Mattie J, Tavares J, Matheson B, Smith E, Denison I, Miller WC, Borisoff JF. Evaluation of the Nino® Two-Wheeled Power Mobility Device: A Pilot Study. *IEEE Trans Neural Syst Rehabil Eng*. 2020 Nov;28(11):2497-2506. doi: 10.1109/TNSRE.2020.3028327.

Bourassa S, Best KL, Racine M, Borisoff J, Leblond J, Routhier F. Use of actigraphy to measure real-world physical activities in manual wheelchair users. *J Rehabil Assist Technol Eng*. 2020 Apr 8;7:2055668320907814. doi: 10.1177/2055668320907814.

Andrea Bundon

Goodyear V & Bundon A. (2021). Contemporary digital qualitative research in sport, exercise and health: Introduction. *Qualitative Research in Sport, Exercise and Health* 13(1), 1-10. doi:10.1080/2159676X.2020.1854836

Trainor L, Crocker P, Bundon A & Ferguson L. (2020). The rebalancing act: Injured varsity women athletes' experiences of global and sport psychological well-being. *Psychology of Sport and Exercise*. 49. doi:10.1016/j.psychsport.2020.101713

Victoria Claydon

Raj SR, Barboi A, Claydon VE, Limberg JK, Lucci V-EM, Numan M, Peltier A, Singer W, Snapper H, Vernino s (2021) Long-COVID dysautonomia and Long-COVID POTS: An American Autonomic Society Statement. *Clinical Autonomic Research*, 19: 1-4.

Taylor CE, Arnold AC, Fanciulli AF, Provini F, Fu Q, Macefield VG, Weese-Mayer DE, Shibao C, Charkoudian N, Claydon VE. (2021) Women in Clinical Autonomic Research: how far have we come in 30 years? *Clinical Autonomic Research*, 17: 1-4.

Lucci V-EM, Inskip JA, McGrath MS, Ruiz I, Lee R, Kwon BK, Claydon VE (2020) Longitudinal assessment of autonomic function during the acute phase of spinal cord injury: use of low-frequency blood pressure variability as a quantitative measure of autonomic function. *Journal of Neurotrauma*, 38: 309-321.

Shi Y, Pang ZK, Venkateshappa R, Gunawan M, Kemp J, Truong E, Chang C, Lin E, Shafaattalab S, Faizi S, Rayani K, Tibbits G, V.E. Claydon VE, Claydon T (2020) The hERG channel activator, RPR260243, enhances protective IKr current early in the refractory period reducing arrhythmogenicity in zebrafish hearts. *American Journal of Physiology*, 319: H251-H261.

Figueroa JJ, Cheshire WP, Claydon VE, Norcliffe-Kaufmann L, Peltier A, W. Singer, H. Snapper, S. Vernino, S.R. Raj (2020) Autonomic function testing in the COVID-19 pandemic: An American Autonomic Society Position Statement. *Clinical Autonomic Research*, 30: 295-297.

Barboi A, Gibbons CH, Bennaroch EE, Biaggioni I, Chappleau MW, Chelimsky G, Chelimsky T, Cheshire WP, Claydon VE, Freeman R, Goldstein DS, Joyner MJ, Kaufmann H, Low PA, Norcliffe-Kaufmann L, Robertson D, Shibao CA, Singer W, Snapper H, Vernino S, Raj SR (2020) Response to: "Human papilloma virus (HPV) vaccine safety concerning POTS, CRPS and related conditions". *Clinical Autonomic Research*, 30: 183-184.

Hockin BCD and Claydon VE (2020) Intermittent calf compression delays the onset of presyncope in young healthy individuals. *Frontiers in Physiology*, 10: 1598.

Lucci V-EM, McGrath MS, Inskip JA, Sarveswaran S, Willms R, Claydon VE (2020) Clinical recommendations for use of lidocaine lubricant during bowel care after spinal cord injury prolong care routines and worsen autonomic dysreflexia. *Spinal Cord*, 58: 430-440. This publication was designated "Paper of the Month" in April 2020.

Barboi AB, Gibbons CH, Axelrod F, Bennaroch EE, Biaggioni I, Chappleau MW, Chelimsky G, Chelimsky T, Cheshire WP, Claydon VE, Freeman R, Goldstein DS, Joyner MJ, Kaufmann H, Low PA, Norcliffe-Kaufmann L, Robertson D, Shibao CA, Singer W, Snapper H, Vernino S, Raj SR (2020) Human papilloma vaccine (HPV) and autonomic disorders: a position statement from the American Autonomic Society. *Autonomic Neuroscience: Basic and Clinical*, 223: 102550. [Priority Double-Publication].

Barboi AB, Gibbons CH, Axelrod F, Bennaroch EE, Biaggioni I, Chappleau MW, Chelimsky G, Chelimsky T, Cheshire WP, Claydon VE, Freeman R, Goldstein DS, Joyner MJ, Kaufmann H, Low PA, Norcliffe-Kaufmann L, Robertson D, Shibao CA, Singer W, Snapper H, Vernino S, Raj SR (2020) Human papilloma vaccine (HPV) and autonomic disorders: a position statement from the American Autonomic Society. *Clinical Autonomic Research*, 30: 13-18. [Priority Double-Publication].

Jacquelyn Cragg

Warner F, Cragg JJ, Jutzeler CR, Grassner L, Mach O, Maier DD, Curt A, Kramer JK. Association of timing of gabapentinoid use with motor recovery after spinal cord injury. *Neurology* 2020;95(24):e3412-e3419.

Liu LJW, Bach P, Crispo JAG, Kramer JLK, Cragg JJ. A Population Study of Prescribed Opioid-based Pain Reliever Use among Individuals with Mood and Anxiety Disorders in Canada. *Drug Alcohol Depend*. 2020 Nov 1;216:108229.

Dorton MC, Lucci VM, de Groot S, Loughin TM, Cragg JJ, Kramer JK, Post MWM, Claydon VE. Evaluation of cardiovascular disease risk in individuals with chronic spinal cord injury. *Spinal Cord* 2020. doi: 10.1038/s41393-020-00566-5. b)

Marzoughi S, Banerjee A, Jutzeler CR, Prado MAM, Rosner J, Cragg JJ, Cashman N. Tardive neurotoxicity of anticholinergic drugs: A review. *J Neurochem* 2021 (epub ahead of print) doi: 10.1111/jnc.15244.

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Cragg JJ, Jutzeler CR, Grassner L, Ramer M, Bradke F, Kramer JLK. Beneficial "Pharmaceutical Pleiotropy" of Gabapentinoids in Spinal Cord Injury. *Neurorehabil Neural Repair*. 2020 Aug;34(8):686-689.

Peter Crompton

Whyte T, Barker JB, Cronin DS, Dumas GA, Nolte L-P, Crompton PA. Load-Sharing and Kinematics of the Human Cervical Spine Under Multi-Axial Transverse Shear Loading: Combined Experimental and Computational Investigation. *Journal of Biomechanical Engineering*. 2021 Mar 17;143(061013). doi:10.1115/1.4050030

Fice JB, Mang DWH, Ólafsdóttir JM, Brodin K, Crompton PA, Blouin J-S, Siegmund GP. Neck muscle and head/neck kinematic responses while bracing against the steering wheel during front and rear impacts. *Ann Biomed Eng*. 2021 Mar 1;49(3):1069-82.

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Stuart CA, Brubacher JR, Yau L, Yip R, Crompton PA. Skiing and snowboarding head injury: A retrospective centre-based study and implications for helmet test standards. *Clinical Biomechanics*. 2020 Mar 1;73:122-9.

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Stacy Elliott

Wong J, Witherspoon L, Wu E, Sheikholeslami S, Liao W, Yuen W, Bentley J, Zarowski C, Sundar M, Elliott S, Higano CS, Flannigan R. Clinic utilization and characteristics of patients accessing a prostate cancer supportive care program's sexual rehabilitation clinic. *J of Clin Med* Oct 20 2020 932657; doi: 10.3390/jcm9103363.

Ibrahim E, Jensen CFS, Sunara I, Khodamoradi K, Aballa TC, Elliott S, Sonksen J, Phl DA, Hultling C, Lynne CM, Seager SWJ, Brackett NL. Evaluation of a re-engineered device for penile vibratory stimulation in men with spinal cord injury. *Spinal Cord* (July 2020). doi:10.1038/s41393-020-0515-6.

Lim CAR, Nightingale TE, Elliott S, Krassioukov AV. Lifestyle modifications and pharmacological approaches to improve sexual function and satisfaction in men with spinal cord injury: a narrative review. *Spinal Cord*. 2020 Apr;58(4):391-401.

Janice Eng

Bernhardt J, Urimubenshi G, Gandhi DBC, Eng JJ. Stroke rehabilitation in low-income and middle-income countries: a call to action. *Lancet*. 2020 Oct 31;396(10260):1452-1462.

Hoogenes B, Querée M, Townson A, Willms R, Eng JJ. COVID-19 and spinal cord injury: Clinical presentation, clinical course, and clinical outcomes: a rapid systematic review. *J Neurotrauma*. 2021 Jan 27.

Nabata KJ, Tse EK, Nightingale TE, Lee AHX, Eng JJ, Querée M, Walter M, Krassioukov AV. The therapeutic potential and usage patterns of cannabinoids in people with spinal cord injuries: a systematic review. *Curr Neuropharmacol*. 2021;19(3):402-432.

Johns JS, Krogh K, Ethans K, Chi J, Querée M, Eng JJ, Spinal Cord Injury Research Evidence Team. Pharmacological management of neurogenic bowel dysfunction after spinal cord injury and multiple sclerosis: A systematic review and clinical implications. *J Clin Med*. 2021 Feb 22;10(4):882.

Klassen TD, Dukelow SP, Bayley MT, Benavente O, Hill MD, Krassioukov A, Liu-Ambrose T, Pooyania S, Poulin MJ, Schneeberg A, Yao J, Eng JJ. Higher doses improve walking recovery during stroke inpatient rehabilitation. *Stroke*. 2020;51:2639-2648

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Parappilly BP, Mortenson WB, Field TS, Eng JJ. Exploring perceptions of stroke survivors and caregivers about secondary prevention: a longitudinal qualitative study. *Disabil Rehabil*. 2020;42:2020-2026.

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Susan Forwell

Breen J, Forwell SJ. The Difference Model of disability: A change in direction for vocational rehabilitation practice. *The Australian Journal of Rehabilitation Counselling.* 2020. 26(1), 12-17. doi:10.1017/jrc.2020.2

Gainforth HL, Hoekstra F, McKay R, McBride CB, Sweet SN, Martin Ginis KA, Anderson K, Chernesky J, Clarke T, Forwell S, Maffin J, McPhail L, Mortenson B, Scarrow G, Schaefer L, Sibley K, Athanasopoulos P, Willms R. (2020). The Integrated Knowledge Translation (IKT) Guiding Principles for Conducting and Disseminating Spinal Cord Injury (SCI) Research in Partnership. *Archives of Physical Medicine and Rehabilitation.* doi:10.1016/j.apmr.2020.09.393

Forwell SJ, Hugos C, Ghahari S. Chapter 38 - Neurodegenerative Diseases. *In Occupational Therapy in Physical Dysfunction.* Eds. D. Powers Durette & S. Gutman M. 8th Edition. Philadelphia, PA: Wolters Kluwer. 2021: 789-811.

Heather Gainforth

Cradock KA, Quinlan L, Finucane FM, Gainforth HL, Martin Ginis KA, de Barros AC, Sanders EB-N, O'Laughlin G. (2021). Identifying barriers and facilitators to diet and physical activity behaviour change in Type 2 Diabetes using a design probe methodology. *Journal of Personalized Medicine,* 11(2):72. doi:10.3390/jpm11020072

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Hoekstra F, Mrklas KJ, Khan M, McKay RC, Vis-Dunbar M, Sibley KM, Nguyen T, Graham ID, SCI Guiding Principles Consensus Panel, Gainforth HL. (2020). A review of reviews on principles, strategies, outcomes, and impacts of research partnerships approaches: a first step in synthesizing the research partnership literature. *Health Research Policy and Systems,* 18, 51. doi:10.1186/s12961-020-0544-9

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David Granville

Turner CT, Bolsoni J, Zeglinski MR, Zhao H, Ponomarev T, Richardson K, Hiroyasu S, Schmid E, Papp A, Granville DJ. Granzyme B mediates impaired healing of pressure injuries in aged skin. *NPJ Aging Mech Dis.* 2021 Mar 5;7(1):6.

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Veronica Hirsch-Reinshagen

Levine A, Lee C, Fava C, Tsang F, McNeil K, Yip ST, Hirsch-Reinshagen V. Detailed neuropathologic report of COVID-19 complicated by large intracerebral hemorrhage and periventricular lesions with macrophagic infiltrates. *Free Neuropathol*. 2021 Mar 25;2:7. LA

Lee S, Jiang K, McIlmoyle B, To E, Xu QA, Hirsch-Reinshagen V, Mackenzie IR, Hsiung GR, Eadie BD, Sarunic MV, Beg MF, Cui JZ, Matsubara JA. Amyloid Beta Immunoreactivity in the Retinal Ganglion Cell Layer of the Alzheimer's Eye. *Front Neurosci*. 2020 Jul 31;14:758. CA

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John Kramer

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Andrei Krassioukov

Sachdeva R, Nightingale TE, Pawar K, Kalimullina T, Mesa A, Marwaha A, Williams AMM, Lam T, Krassioukov AV. Noninvasive Neuroprosthesis Promotes Cardiovascular Recovery After Spinal Cord Injury. *Neurotherapeutics* 2021 Mar 31.

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- Gee CM, Nightingale TE, West CR, Krassioukov AV. Infographic. Doping without drugs: how para-athletes may self-harm to boost performance. 2020 Apr 19. doi: 10.2174/1570159X18666200420085712
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