

Selected Publications by ICORD researchers, 2018-19

Paul Bishop:

Bishop PB, Street J, Quon JA, Arthur BE, Petrollini GM, Nadeau M, Ailon T, Dea N, Fisher CG, Kwon BK. (2018). Biological and clinical outcomes of chiropractic spinal manipulative therapy in the treatment of patients with acute inflammatory radiculopathy secondary to lumbar disc herniation: a pilot study. *Spine J.* 18(8): S74. doi: 10.1016/j.spinee.2018.06.413.

Jaimie Borisoff:

Best KL, Routhier F, Sweet SN, Lacroix E, Arbour-Nicitopoulos KP, Borisoff JF. (2019). Smartphone-delivered peer physical activity counseling program for individuals with spinal cord injury: protocol for development and pilot evaluation. *JMIR Res Protoc.* 8(3):e10798. doi: 10.2196/10798. PMID: 30901001.

Thomas L, Borisoff J, Sparrey CJ. (2018). Manual wheelchair downhill stability: an analysis of factors affecting tip probability. *J Neuroeng Rehabil.* 15(1):95. doi: 10.1186/s12984-018-0450-3. PMID: 30400911.

Cragg JJ, Kramer JLK, Borisoff JF, Patrick DM, Ramer MS. (2018). Ecological fallacy as a novel risk factor for poor translation in neuroscience research: A systematic review and simulation study. *Eur J Clin Invest.* 49(2):e1304. doi: 10.1111/eci.13045. PMID: 30372787.

Mattie J, Wong A, Leland D, Borisoff J. (2018). End user evaluation of a Kneeling Wheelchair with "on the fly" adjustable seating functions. *Disabil Rehabil Assist Technol.* 14(6):543-554. doi: 10.1080/17483107.2018.1462861. PMID: 29667464.

Victoria Claydon

L. Guan, J-P. Collet, G. Mazowita, V.E. Claydon (2018) Autonomic nervous system and stress to predict secondary ischemic events after transient ischemic attack or minor stroke: possible implications of heart rate variability. *Frontiers in Neurology - Stroke*, 9: 90.

A. Farias-Godoy, S. Chan, V.E. Claydon, A. Ignaszewski, J. Mendell, J.E. Park, J. Singer, S.A. Lear (2018) The impact of reduced cardiac rehabilitation on maximal treadmill exercise time: a randomised controlled trial. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 38: 24-30.

C.L. Protheroe, A.M De Souza, K.C. Harris, V.E. Claydon, S. Sanatani (2018) A survey of teacher and student perspectives on how running is taught and evaluated in British Columbia schools. *UBCMJ*, 9: 16-19.

H. Moein, R. Jhalli, A.P. Blaber, V.E. Claydon, C. Menon (2017) Evaluating the efficacy of an active compression brace on orthostatic cardiovascular responses. *PLOS One*, 12: e0187885.

K.R. Armstrong, A.M. De Souza, P. Sneddon, J.E. Potts, V.E. Claydon, S. Sanatani (2017) Optimising physiology for adolescents with dysautonomia: the authors reply. *Acta Paediatrica*, 106: 2066.

M.G. Lloyd, J. Wakeling, M. Koehle, R.J. Drapala, V.E. Claydon (2017) Carotid sinus hypersensitivity: block of the sternocleidomastoid muscle does not affect responses to carotid sinus massage in healthy young adults. *Physiological Reports*, 5: e13448.

S. Franciosi, F.K.G. Perry, T.M. Roston, K.R. Armstrong, V.E. Claydon, S. Sanatani (2017) The role of the autonomic nervous system in arrhythmias and sudden cardiac death. *Autonomic Neuroscience: Basic and Clinical*, 205: 1-11.

J.A. Inskip, H.J.C. Ravensbergen, I.S.S. Sahota, C. Zawadzki, L.T. McPhail, J.F. Borisoff, V.E. Claydon (2017) Dynamic wheelchair seating positions impact cardiovascular function after spinal cord injury. *PLOS One*, 12: e0180195.

A. Laurin, M.G. Lloyd, T. Hachiya, M. Saito, V.E. Claydon, A.P. Blaber (2017) New indices from microneurography to investigate the arterial baroreflex. *Physiological Reports*, 5: e13220.

Peter Cripton:

Whyte T, Stuart C, Mallory A, Ghajari M, Plant D, Siegmund GP, Cripton PA. (2019). A review of impact testing methods for headgear in sports: Considerations for improved prevention of head injury through research and standards. *J Biomech Eng.* doi: 10.1115/1.4043140. PMID: 30861063.

Vonder Haar C, Martens KM, Bashir A, McInnes KA, Cheng WH, Cheung H, Stukas S, Barron C, Ladner T, Welch KA, Cripton PA, Winstanley CA, Wellington CL. (2019) Repetitive closed-head impact model of engineered rotational acceleration (CHIMERA) injury in rats increases impulsivity, decreases dopaminergic innervation in the olfactory tubercle and generates white matter inflammation, tau phosphorylation and degeneration. *Exp Neurol.* 317:87-99. doi: 10.1016/j.

expneurol.2019.02.012. PMID: 30822421

Cheng WH, Martens KM, Bashir A, Cheung H, Stukas S, Gibbs E, Namjoshi DR, Button EB, Wilkinson A, Barron CJ, Cashman NR, Cripton PA, Wellington CL. (2019). CHIMERA repetitive mild traumatic brain injury induces chronic behavioural and neuropathological phenotypes in wild-type and APP/PS1 mice. *Alzheimers Res Ther.* 11(1):6. doi: 10.1186/s13195-018-0461-0. PMID: 30636629s

Kim KT, Streijger F, Manouchehri N, So K, Shortt K, Okon EB, Tigchelaar S, Cripton PA, Kwon BK. (2018). Review of the UBC Porcine Model of Traumatic Spinal Cord Injury. *J Korean Neurosurg Soc.* 61(5):539-547. doi: 10.3340/jkns.2017.0276. PMID: 30196652.

Newell RS, Blouin JS, Street , Cripton PA, Siegmund GP. (2018). The neutral posture of the cervical spine is not unique in human subjects. *J Biomech.* 80:53-62. doi: 10.1016/j.jbiomech.2018.08.012. PMID: 30170839.

Fleps I, Enns-Bray WS, Guy P, Ferguson SJ, Cripton PA, Helgason B. (2018). On the internal reaction forces, energy absorption, and fracture in the hip during simulated sideways fall impact. *PLoS ONE.* 13(8):e0200952. doi: 10.1371/journal.pone.0200952. PMID: 30114192.

Fleps I, Vuille M, Melnyk A, Ferguson SJ, Guy P, Helgason B, Cripton PA. (2018). A novel sideways fall simulator to study hip fractures ex vivo. *PLOS ONE.* 13(7):e0201096. doi: 10.1371/journal.pone.0201096. PMID: 30040858.

Lucas E, Whyte T, Liu J, Russell C, Tetzlaff W, Cripton PA. (2018) High-speed fluoroscopy to measure dynamic spinal cord deformation in an in vivo rat model. *J Neurotrauma.* 35(21):2572-2580. doi: 10.1089/neu.2017.5478. PMID: 29786472.

Lucas E, Whyte T, Liu J, Tetzlaff W, Cripton PA. (2018). Radiography used to measure internal spinal cord deformation in an in vivo rat model. *J Biomech.* 71:286-290. doi: 10.1016/j.jbiomech.2018.01.036. PMID: 29477261.

Stacy Elliott:

Hallam BJ, Willms R, Abel RL, Elliott S, Houle L, Gorrel K, Lawrence W, Mortenson WB. (2019). Aging with spinal cord injury. In RJ Gatchel, IZ Schultz & CT Ray (Eds.), *Handbook of Rehabilitation in Older Adults.* New York: Springer.

Elliott S. (2018). Sexual dysfunction and infertility in individuals with spinal cord disorders. In: S Kirshblum, VW Lin (Eds.), *Spinal Cord Medicine 3rd edition* (pp. 411-435). New York, NY: Springer Publishing.

Macnab AJ, Stothers L, Berkowitz J, Elliott S, Bajunirwe F. (2019). Associations between sexual satisfaction and function and the severity of lower urinary tract symptoms among men in a rural sub-Saharan African community. *Can Urol Assoc J.* doi: 10.5489/cuaj.5603. PMID: 30817291

Hedden L, Pollock P, Elliot S, Bossio JA, Weller S, Van Patten CL, Dayan M, Lutz K, Kuhl D, Spillane M, Sundar M, Goldenberg L, Higano S. (2018). Development, implementation, and evaluation of a prostate supportive care program. *JCSO.* 16(6):e234-e242. doi: 10.12788/jsco.0438

Stoffel JT, Van der Aa F, Wittmann D, Yande S, Elliott S. (2018). Neurogenic bowel management for the adult spinal cord injury patient. *World J Urol.* 36 (10):1587-1592. doi: 10.1007/s00345-018-2388-2. PMID: 29951791

Stoffel JT, Van der Aa F, Wittmann D, Yande S, Elliott S. (2018). Fertility and sexuality in the spinal cord injury patient. *World J Urol.* 36(10) 1577-1585. doi: 10.1007/s00345-018-2347-y. PMID: 29948051.

Holmgren T, Lee AHX, Hocaloski S, Hamilton LJ, Helsing I, Elliott S, Hultling C, Krassioukov AV. (2018). The influence of spinal cord injury on breastfeeding ability and behavior. *J Hum Lact.* 34(3):556-565. doi: 10.1177/0890334418774014. PMID: 29787691.

Stoffel JT, Elliott S, Van Der Aa F, Yande S, Wittmann D. SIU- ICUD Recommendations for the Urologic Management of Spinal Cord Injured patients (SIU - ICUD) (. Societe Internationale D'Urologie (SIU) International Consultation on Urological Diseases (ICUD)) Committee 6 , Chapter 6: Neurogenic Bowel, Fertility and Sexuality in the Spinal Cord Injured Patient 2018

Janice Eng:

Connell LA, Klassen TK, Janssen J, Thetford C, Eng JJ. (2018). Delivering intensive rehabilitation in stroke: factors influencing implementation. *Phys Ther.* 98:233-250. doi: 10.1093/ptj/pzy018. PMID: 29415282.

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McIntyre A, Benton B, Janzen S, Iruthayarajah J, Wiener J, Eng JJ, Teasell R. (2018). A mapping review of randomized controlled trials in the spinal cord injury research literature. *Spinal Cord.* 56:725-732. doi: 10.1038/s41393-018-0155-2. PMID: 29904188.

Crozier J, Roig M, Eng JJ, MacKay-Lyons M, Fung J, Ploughman M, Bailey DM, Sweet SN, Giacomantonio N, Thiel A, Trivino M, Tang A. (2018). High-intensity interval training after stroke: An opportunity to promote functional recovery, cardiovascular health, and neuroplasticity. *Neurorehabil Neural Repair*. 32:543-556. doi: 10.1177/1545968318766663. PMID: 29676956.

Tse CM, Chisholm AE, Lam T, Eng JJ, SCIRE Research Team. (2018). A systematic review of the effectiveness of task-specific rehabilitation interventions for improving independent sitting and standing function in spinal cord injury. *J Spinal Cord Med*. 41:254-266. doi: 10.1080/10790268.2017.1350340. PMID: 28738740.

Imam B, Miller WC, Finlayson HC, Eng JJ, Jarus T. (2018). A clinical survey about commercial games in lower limb prosthetic rehabilitation. *Prosthet Orthot Int*. 42:311-317. doi: 10.1177/0309364617740238. PMID: 29126375.

Aziz Ghahary:

Jalili RB, Kilani RT, Li Y, Khosravi-Maharlooie M, Nabai L, Wang EHC, McElwee KJ, Ghahary A. (2018). Fibroblast cell-based therapy prevents induction of alopecia areata in an experimental model. *Cell Transplant*. 27(6):994-1004. doi: 10.1177/0963689718773311. PMID: 29871523.

Papp A, Hartwell R, Evans M, Ghahary A. (2018). The safety and tolerability of topically delivered Kynurenic Acid in humans. *J Pharm Sci*. 107(6):1572-1576. doi: 10.1016/j.xphs.2018.01.023. PMID: 29421218.

Farrokhi A, Pakyari M, Nabai L, Pourghadiri A, Hartwell R, Jalili R, Ghahary A. Evaluation of detergent-free and detergent-based methods of decellularization of murine skin. *Tissue Eng Part A*. 24(11-12):955-967.

Heather Gainforth:

Sweet SN, Michalovic E, Baxter K, Baron J, Gainforth HL. (2019). RE-AIMing conferences: A reach, effectiveness, and maintenance evaluation of the Rick Hansen Institute's Praxis 2016. *Transl Behav Med*. doi: 10.1093/tbm/ibz002. PMID: 30753657

Hoekstra F, Mrklas KJ, Sibley KM, Nguyen T, Vis-Dunbar M, Neilson CJ, Crockett LK, Gainforth HL, Graham ID. (2018). A review protocol on research partnerships: a coordinated multicenter team approach. *Syst Rev*. 7(1):217. doi: 10.1186/s13643-018-0879-2. PMID: 30497527.

Gainforth HL, Lorencatto F, Erickson K, Baxter K, Owens K, Michie S, West R. (2019). Use of dynamic systems methods to characterize dyadic interactions in smoking cessation behavioural support sessions: A feasibility study. *Br J Health Psychol*. 24(1):192-214. doi: 10.1111/bjhp.12347. PMID: 30489001.

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Dunn E, Robertson-Wilson J, Gainforth HL. (2018). Behavior change techniques in mobile applications for sedentary behavior. *Digital Health*. 4, 1-8. doi: 10.1177/2055207618785798.

David Granville:

Shen Y, Zeglinski MR, Turner CT, Raithatha SA, Wu Z, Russo V, Oram C, Hiroyasu S, Nabai L, Zhao H, Bozin T, Westendorf K, Kopko I, Huang R, Arns S, Tan S, Zeng H, Boey A, Liggins R, Jaquith J, Cameron DR, Papp A, Granville DJ. (2018). Topical small-molecule Granzyme B inhibitor improves remodeling in a murine model of impaired burn wound healing. *Mol Exp Med*. 50(5):68. doi: 10.1038/s12276-018-0095-0

Russo V, Klein T, Lim DJ, Solis N, Machado Y, Hiroyasu S, Nabai L, Shen Y, Zeglinski M, Zhao H, Oram C, Lennox PA, Van Laeken N, Carr NJ, Crawford RI, Franzke CW, Overall CM, Granville DJ. (2018). Granzyme B is elevated in autoimmune blistering diseases and cleaves key anchoring proteins of the dermal-epidermal junction. *Sci Rep*. 7(1):15857. doi: 10.1038/s41598-017-16194-8.

Haage A, Goodwin K, Whitewood A, Camp D, Bogutz A, Turner CT, Granville DJ, Lefebvre L, Plotnikov S, Goult BT, Tanentzapf G. (2018). Talin autoinhibition regulates cell-ECM adhesion dynamics and wound healing in vivo. *Cell Rep*. 27;25(9):2401-2416. doi: 10.1016/j.celrep.2018.10.098.

Turner CT, Lim D, Granville DJ. (2019). Granzyme B in Skin inflammation and disease. *Matrix Biol*. 75-76:126-140. doi: 10.1016/j.matbio.2017.12.005. PMID: 29247692.

Seller SL, Turner CT, Sathananthan J, Cartlidge T, Sin F, Bouchareb R, Mooney J, Norgaard BL, Bax JJ, Bernatchez PN, Dweck MR, Granville DJ, Newby DE, Lauck S, Web JG, Payne GW, Pibarot P, Seidman MA, Leipsic JA. (2019). Transcatheter aortic heart valves: histological analysis providing insight to leaflet thickening and structural valve degeneration. *JACC Cardiovasc*

Imaging. 12(1):135-145. doi: 10.1016/j.jcmg.2018.06.028. PMID: 30448122.

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Cait J, Hughes MR, Zeglinski M, Chan A, Osterhof S, Canals D, Cait A, Vogl W, Bernatchez P, Granville DJ, Murphy T, Roskelley C, McNagny KM. (2019). Podocalyxin is required for appropriate endothelial cell-cell junction formation and maintenance of blood brain barrier integrity during acute inflammation. *PNAS.* 116(10) 4518-4527. doi: 10.1073/pnas.1814766116. PMID: 30787191.

Reza Jalili

Jalili RB, Kilani RT, Li Y, Khosravi-Maharlooie M, Nabai L, Wang EHC, McElwee KJ, Ghahary A. (2018). Fibroblast cell-based therapy prevents induction of alopecia areata in an experimental model. *Cell Transplant.* 27(6):994-1004. doi: 10.1177/0963689718773311. PMID: 29871523.

Jalili RB, Farrokhi A, Ghahary A. (2019). Phenotypic modulation of adipose-derived stem cells within 3D scaffolds; applications in skin bioengineering. *J Burn Care Res.* 40 (Supplement_1), S152-S153. doi: 10.1093/jbcr/irz013.261

Pakyari M, Farokhi A, Jalili RB, Kilani RT, Brown E, Ghahary A. (2019). Local expression of indoleamine 2, 3, dioxygenase prolongs allogenic skin graft take in a mouse model. *Adv wound care.* 8 (2), 58-70. doi: 10.1089/wound.2018.0811.

Poormasjedi-Meibod MS, Fossey M, Tong B, Kramer JK, Geisler F, McNeill JH, Jalili RB, West CR. Acute Spinal Cord Injury Prevents Frank Type 2 Diabetes in Zucker Diabetic Fatty Rats and Improves Glucose Profile in Humans. *Journal of Neurotrauma* 2018; 35 (16), A33-A33

Farrokhi A, Pakyari M, Nabai L, Pourghadiri A, Hartwell R, Jalili R, Ghahary A. (2018). Evaluation of detergent-free and detergent-based methods for decellularization of murine skin. *Tissue Eng Part A.* 24 (11-12), 955-967. doi: 10.1089/ten.TEA.2017.0273. PMID: 29303417.

Piotr Kozlowski:

Moosvi F, Baker J, Yung A, Kozlowski P, Minchinton AI, Reinsberg SA. (2019). Fast and sensitive dynamic oxygen-enhanced MRI with cycling gas challenge and independent component analysis. *Magn Reson Med.* 81(4), 2514-2525. doi: 10.1002/mrm.27584. PMID: 30368892.

Yung A, Mattuci S, Bohnet B, Liu J, Fournier C, Tetzlaff W, Kozlowski P, Oxland T. (2019). Diffusion tensor imaging shows mechanism-specific differences in injury pattern and progression in rat models of acute spinal cord injury. *Neuroimage.* 186, 43-55. doi: 10.1016/j.neuroimage.2018.10.067. PMID: 30409758.

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Sabouri S, Chang SD, Goldenberg SL, Savdie R, Jones EC, Black PC, Fazli L, Kozlowski P. (2019). Comparing diagnostic accuracy of luminal water imaging with diffusion-weighted and dynamic contrast-enhanced MRI in prostate cancer: a quantitative MRI study. *NMR Biomed.* 32(2):e4048. doi: 10.1002/nbm.4048. PMID: 30575145.

John Kramer:

Rosner J, Hostettler P, Scheuren PS, Sirucek L, Rinert J, Curt A, Kramer JLK, Jutzeler CR, Hubli M. (2018). Normative data of contact heat evoked potentials from the lower extremities. *Sci Rep.* 8(1):11003. doi: 10.1038/s41598-018-29145-8. PMID: 30030450.

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Scheuren PS, Gagné M, Jutzeler CR, Rosner J, Mercier C, Kramer JLK. (2019). Tracking changes in neuropathic pain after acute spinal cord injury. *Front Neurol.* 10:90. doi: 10.3389/fneur.2019.00090. PMID: 30837931.

Shupler MS, Kramer JK, Cragg JJ, Jutzeler CR, Whitehurst DGT. (2018). Pan-Canadian estimates of chronic pain prevalence from 2000 to 2014: A repeated cross-sectional survey analysis. *J Pain.* 20(5):557-565. doi: 10.1016/j.jpain.2018.10.010. PMID: 30503860.

Andrei Krassioukov:

- Aslan SC, Legg Ditterline BE, Park MC, Angeli CA, Rejc E, Chen Y, Ovechkin AV, Krassioukov A, Harkema SJ. (2018). Epidural spinal cord stimulation of lumbosacral networks modulates arterial blood pressure in individuals with spinal cord injury-induced cardiovascular deficits. *Front Physiol.* 9:565. doi: 10.3389/fphys.2018.00565. PMID: 29867586.
- Averbeck MA, Krassioukov A, Thiruchelvam N, Madersbacher H, Bøgelund M, Igawa Y. (2018). The impact of different scenarios for intermittent bladder catheterization on health state utilities: results from an internet-based time trade-off survey. *Med Econ.* 21(10):945-952. doi: 10.1080/13696998.2018.1486846. PMID: 29882712.
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- Krassioukov AV, Currie KD, Hubli M, Nightingale TE, Alrashidi AA, Ramer L, Eng JJ, Ginis KAM, MacDonald MJ, Hicks A, Ditor D, Oh P, Verrier MC, Craven BC. (2019). Effects of exercise interventions on cardiovascular health in individuals with chronic, motor complete spinal cord injury: protocol for a randomised controlled trial [Cardiovascular Health/Outcomes: Improvements Created by Exercise and education in SCI (CHOICES) Study]. *BMJ Open.* 9:e023540. doi: 10.1136/bmjopen-2018-023540. PMID: 30612110.
- Nightingale TE, Walter M, Williams AMM, Lam T, Krassioukov AV. (2019). Ergogenic effects of an epidural neuroprosthesis in one individual with spinal cord injury. *Neurology.* 92(7):338-340. doi: 10.1212/WNL.0000000000006923. PMID: 30635485.
- Walter M, Lee AHX, Kavanagh A, Phillips AA, Krassioukov AV. (2018). Epidural spinal cord stimulation acutely modulates lower urinary tract and bowel function following spinal cord injury: a case report. *Front Physiol.* 9:1816. doi: 10.3389/fphys.2018.01816. PMID: 30618826.
- West CR, Phillips AA, Squair JW, Williams AM, Walter M, Lam T, Krassioukov AV. (2018). Association of epidural stimulation with cardiovascular function in an individual with spinal cord injury. *JAMA Neurol.* 75(5):630-632. doi: 10.1001/jamaneurol.2017.5055. PMID: 29459943.
- Walter M, Ramirez AL, Lee AH, Rapoport D, Kavanagh A, Krassioukov AV. (2018). Protocol for a phase II, open-label exploratory study investigating the efficacy of fesoterodine for treatment of adult patients with spinal cord injury suffering from neurogenic detrusor overactivity for amelioration of autonomic dysreflexia. *BMJ Open.* 8(11):e024084. doi: 10.1136/bmjopen-2018-024084. PMID: 30467135.
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Brian Kwon:

- Mattucci S, Speidel J, Liu J, Kwon BK, Tetzlaff W, Oxland TR. (2018). Basic biomechanics of spinal cord injury - How injuries happen in people and how animal models have informed our understanding. *Clin Biomech (Bristol, Avon).* 64:58-68. doi: 10.1016/j.clinbiomech.2018.03.020. PMID: 29685426.
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Natural history, predictors of outcome and effects of treatment in thoracic spinal cord injury: A multicenter cohort study from the north american clinical trials network. *J Neurotrauma*. doi: 10.1089/neu.2017.5535. PMID: 29665733.

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