

Selected Publications by ICORD researchers, 2017-18

Jaimie Borisoff

Borisoff JF, Ripat J, and FHN Chan. (2018) Seasonal patterns of community participation and mobility of wheelchair users over an entire year. *Archives of Physical Medicine and Rehabilitation*.

Inskip J, Sahota IS, Camp JE, Mah CS, **Borisoff JF**, McPhail LT, and VE Claydon. (2018). Dynamic wheelchair seating positions impact cardiovascular function after spinal cord injury. *PLOS ONE*, 12(6), e1800195.

Routhier F, Lettre J, **Borisoff JF**, Miller WC, and I Mitchell. (2017). Data logger technologies for powered wheelchairs: A scoping review. *Assistive Technology*, 30(2), 1-6.

Victoria Claydon

L Guan, J-P Collet, G Mazowita, **VE 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.

Farias-Godoy S Chan, **VE Claydon**, A Ignaszewski, J Mendell, JE Park, J Singer, SA 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.

CL Protheroe, AM De Souza, KC Harris, **VE Claydon**, S Sanatani. A survey of teacher and student perspectives on how running is taught and evaluated in British Columbia schools. (2018). *UBCMJ*, 9(2), 16-19.

H Moein, R Jhalli, AP Blaber, **VE Claydon**, C Menon. (2017). Evaluating the efficacy of an active compression brace on orthostatic cardiovascular responses. *PLOS ONE*, 12: e0187885.

KR Armstrong, AM De Souza, P Sneddon, JE Potts, **VE Claydon**, S Sanatani. (2017). Optimising physiology for adolescents with dysautonomia: The authors reply. *Acta Paediatrica*, 106, 2066.

MG Lloyd, J Wakeling, M Koehle, RJ Drapala, **VE 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, FKG Perry, TM Roston, KR Armstrong, **VE 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. (JIF: 1.9)

JA Inskip, HJC Ravensbergen, ISS Sahota, C Zawadzki, LT McPhail, JF Borisoff, **VE Claydon**. (2017). Dynamic wheelchair seating positions impact cardiovascular function after spinal cord injury. *PLOS ONE*, 12, e0180195.

Laurin, MG Lloyd, T Hachiya, M Saito, **VE Claydon**, AP Blaber. (2017). New indices from microneurography to investigate the arterial baroreflex. *Physiological Reports*, 5, e13220.

Peter Cripton

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. *Journal of Biomechanics*, 71, 286-90.

Ramo NL, Shetye SS, Streijger F, Lee JHT, Troyer KL, Kwon BK, **Cripton P**, Puttlitz CM. (2018). Comparison of in vivo and ex vivo viscoelastic behavior of the spinal cord. *Acta Biomaterialia*, 68, 78-89.

Tang T, **Cripton PA**, Guy P, McKay HA, Wang R. (2017). Clinical hip fracture is accompanied by compression induced failure in the superior cortex of the femoral neck. *Bone*, 108, 121-31.

Haber M, Hutchinson EB, Sadeghi N, Cheng WH, Namjoshi D, **Cripton P**, Irfanoglu MO, Wellington C, Diaz-Arrastia R, Pierpaoli C. (2017). Defining an analytic framework to evaluate quantitative MRI markers of traumatic axonal injury: preliminary results in a mouse closed head injury model. *eNeuro*, 4(5).

Enns-Bray WS, Bahaloo H, Fleps I, Ariza O, Gilchrist S, Widmer R, Guy P, Pálsson H, Ferguson SJ, **Cripton PA**, Helgason B. (2018). Material mapping strategy to improve the predicted response of the proximal femur to a sideways fall impact. *Journal of the Mechanical Behavior of Biomedical Materials*, 78, 196-205.

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- Cheng WH, Stukas S, Martens KM, Namjoshi DR, Button EB, Wilkinson A, Bashir A, Robert J, **Cripton PA**, Wellington CL. (2018). Age at injury and genotype modify acute inflammatory and neurofilament-light responses to mild CHIMERA traumatic brain injury in wild-type and APP/PS1 mice. *Experimental Neurology*, 301(A), 26-38.
- Namjoshi DR, Cheng WH, Bashir A, Wilkinson A, Stukas S, Martens KM, Whyte T, Abebe ZA, McInnes KA, **Cripton PA**, Wellington CL. (2017). Defining the biomechanical and biological threshold of murine mild traumatic brain injury using CHIMERA (Closed Head Impact Model of Engineered Rotational Acceleration). *Experimental Neurology*, 292, 80-91.
- Gustafson HM, **Cripton PA**, Ferguson SJ, Helgason B. Comparison of specimen-specific vertebral body finite element models with experimental digital image correlation measurements. (2017). *Journal of the Mechanical Behaviour of Biomedical Materials*, 65, 801-807.
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Marcel Dvorak

- Salem KMI, Eranki AP, Paquette S, Boyd M, Street J, Kwon BK, Fisher CG, **Dvorak MF**. (2018). Do intraoperative radiographs predict final lumbar sagittal alignment following single-level transforaminal lumbar interbody fusion? *Journal of Neurosurgery: Spine*, 28(5), 486-491.
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- Iorio-Morin C, Noonan VK, White B, Noreau L, Leblond J, Dumont FS, Kwon BK, **Dvorak MF**, Dea N. (2018). Quality of life and health utility scores among Canadians living with traumatic spinal cord injury - a national cross-sectional study. *Spine (Phila Pa 1976)* 43(14), 999-1006
- Dalkilic T, Fallah N, Noonan VK, Salimi Elizei S, Dong K, Belanger L, Ritchie L, Tsang A, Bourassa-Moreau E, Heran MKS, Paquette SJ, Ailon T, Dea N, Street J, Fisher CG, **Dvorak MF**, Kwon BK. (2018). Predicting injury severity and neurological recovery after acute cervical spinal cord injury: A comparison of cerebrospinal fluid and magnetic resonance imaging biomarkers. *Journal of Neurotrauma* 35(3), 435-445.
- Rodrigues-Pinto R, Kurd MF, Schroeder GD, Kepler CK, Krieg JC, Holstein JH, Bellabarba C, Firoozabadi R, Oner FC, Kandziora F, **Dvorak MF**, Kleweno CP, Vialle LR, Rajasekaran S, Schnake KJ, Vaccaro AR. (2017). Sacral fractures and associated injuries. *Global Spine Journal* 7(7), 609-616.
- Squair JW, Bélanger LM, Tsang A, Ritchie L, Mac-Thiong JM, Parent S, Christie S, Bailey C, Dhall S, Street J, Ailon T, Paquette S, Dea N, Fisher CG, **Dvorak MF**, West CR, Kwon BK. (2017). Spinal cord perfusion pressure predicts neurologic recovery in acute spinal cord injury. *Neurology* 89(16), 1660-1667.
- White BAB, Dea N, Street JT, Cheng CL, Rivers CS, Attabib N, Kwon BK, Fisher CG, **Dvorak MF**. (2017). The economic burden of urinary tract infection and pressure ulceration in acute traumatic spinal cord injury admissions: Evidence for comparative economics and decision analytics from a matched case-control study. *Journal of Neurotrauma* 34(20), 2892-2900.
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- Paquet J, Rivers CS, Kurban D, Finkelstein J, Tee JW, Noonan VK, Kwon BK, Hurlbert RJ, Christie S, Tsai EC, Ahn H, Drew B, Bailey CS, Fourney DR, Attabib N, Johnson MG, Fehlings MG, Parent S, **Dvorak MF**; RHSCIR Network. (2018). The impact of spine stability on cervical spinal cord injury with respect to demographics, management, and outcome: a prospective cohort from a national spinal cord injury registry. *Spine Journal* 18(1), 88-98.

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- Glennie RA, Batke J, Fallah N, Cheng CL, Rivers CS, Noonan VK, **Dvorak MF**, Fisher CG, Kwon BK, Street JT. (2017). Rural and urban living in persons with spinal cord injury and comparing environmental barriers, their health, and quality-of-life outcomes. *Journal of Neurotrauma* 34(20), 2877-2882.
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Stacy Elliott

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- Elliott S**, Matthew A. (2017). Sexual recovery following prostate cancer: recommendations from 2 established Canadian sexual rehabilitation clinics. *Sexual Medicine Review*. Advance online publication.
- Park SE, **Elliott S**, Noonan VK, Thorogood NP, Fallah N, Aludino A, Dvorak MF. (2017). Impact of bladder, bowel and sexual dysfunction on health status of people with thoracolumbar spinal cord injuries living in the community. *Journal of Spinal Cord Medicine*, 40(5), 548-559.
- Goldstein I, Komisaruk BR, Rubin RS, Goldstein SW, **Elliott S**, Kisse J, Kim CW. (2017). A novel collaborative protocol for successful management of penile pain mediated by radiculitis of sacral spinal nerve roots from Tarlov cysts. *Sexual Medicine*, 5(3), e203-e211.
- Hocaloski S, **Elliott SL**, Hodge, K, McBride K, Hamilton L., McBride C, Basson M. (2017) Perinatal care for women with spinal cord injuries: A collaborative workshop for consensus on care in Canada. *Topics in Spinal Cord Injury Rehabilitation*, 23(4), 386-396.
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Janice Eng

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- Chan CWL, Miller WC, Querée M, Noonan V, Wolfe D and the SCIRE Research Team. (2017). The development of an outcome measures toolkit for spinal cord injury rehabilitation. *Canadian Journal of Occupational Therapy*, 84(2), 119-29.
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Susan Forwell

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Heather Gainforth

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Aziz Ghahary

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David Granville

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Book chapters:

- Turner CT, Russo V, Santacruz S, Oram C, & **Granville DJ.** (2017). Granzyme B. In Choi Sangdun (Ed.), *Encyclopedia of Signaling Molecules* (2nd Edition). New York, NY: Springer.

Andreas Hoffer

- Reynolds S, Ebner A, Meffen T, Thakkar V, Gani M, Taylor K, Clark L, Sadarangani G, Meyyappan R, Sandoval R, Rohrs E, **Hoffer JA.** (2017). Diaphragm Activation in Ventilated Patients Using a Novel Transvenous Phrenic Nerve Pacing Catheter. *Critical Care Medicine*, 45(7): e691-e694.

Reza Jalili

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- Danishwar A, Farrokhi A, **Jalili RB.** Functional and phenotypic comparison of adipose derived stem cells from diabetic and non-diabetic subjects. Under review in *Cell Stem Cell and Regenerative Medicine*.

Piotr Kozlowski

- Sabouri S, Fazli L, Chang SD, Savdie R, Jones EC, Goldenberg SL, Black P, **Kozlowski P.** (2017). MR measurement of luminal water in prostate gland: Quantitative correlation between MRI and histology. *Journal of Magnetic Resonance Imaging*, 46(3), 861-869.

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John Kramer:

- Kramer JLK**, Geisler F, Ramer L, Plunet W, Cragg JJ. (2017). Open access platforms in spinal cord injury: Existing clinical trial data to predict and improve outcomes. *Neurorehabilitation and Neural Repair*, 31(5), 399-401.
- Kramer JL**, Minhas NK, Jutzeler CR, Erskine EL, Liu LJ, Ramer MS. (2017). Neuropathic pain following traumatic spinal cord injury: Models, measurement, and mechanisms. *Journal of Neuroscience Research*, 95(6), 1295-1306.
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- Liu H, MacMillian EL, Jutzeler CR, Ljungberg E, MacKay AL, Kolind SH, Mädler B, Li DKB, Dvorak MF, Curt A, Laule C, **Kramer JLK**. (2017). Assessing structure and function of myelin in cervical spondylotic myelopathy: Evidence of demyelination. *Neurology*, 89(6), 602-610.
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Andrei Krassioukov

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