



icord

annual report 2022-23

Appendix: Selected
publications by
ICORD Principal
Investigators



Selected Publications by ICORD Principal Investigators, 2022-2023

Mike Berger

Sachdeva R, Hosseinzadeh A, Rizzardo A, Maharaj A, Berger MJ, Krassioukov A. No pain, no strain: Targin® mitigates pain and constipation following spinal cord injury. *Annals of Clinical and Translational Neurology*. 10(3):453-8.

Samejima S*, Shackleton C*, McCracken L, Malik RN*, Miller T*, Kavanagh A, Ghuman A, Elliott S, Walter M, Nightingale TE, Berger MJ, Lam T, Sachdeva R, Krassioukov AV. Effects of non-invasive spinal cord stimulation on lower urinary tract, bowel, and sexual functions in individuals with chronic motor-complete spinal cord injury: Protocol for a pilot clinical trial. *PLoS One*. 2022 Dec 13;17(12):e0278425. doi: 10.1371/journal.pone.0278425.

Mesa A*, Grasdal M*, Leong S, Dean NA, Marwaha A, Lee A, Berger MJ, Bundon A, Krassioukov AV. Effect of the COVID-19 pandemic on individuals with spinal cord injury: Mental health and use of telehealth. *PM R*. 2022 Sep 18. doi: 10.1002/pmrj.12900. Epub ahead of print.

Berger MJ, Adewuyi AA*, Fox IK, Franz CK. Clinical electrodiagnostic evaluation for nerve transfer surgery in spinal cord injury: a new indication and clinical pearls. *J Neurophysiol*. 2022 Oct 1;128(4):847-853. doi: 10.1152/jn.00289.2022. Epub 2022 Aug 31.

Curran MWT, Olson JL, Morhart MJ, Wu SSZ, Midha R, Berger MJ, Chan KM; Western Canadian Peripheral Nerve Research Initiative. Reverse End-to-Side Nerve Transfer for Severe Ulnar Nerve Injury: A Western Canadian Multicentre Prospective Nonrandomized Cohort Study. *Neurosurgery*. 2022 Sep 28. doi: 10.1227/neu.0000000000002143. Epub ahead of print.

Doherty C, Brown E, Berger M, et al. Contemporary Approaches to Peripheral Nerve Surgery. *Plastic Surgery*. 2022;0(0). doi:10.1177/22925503221120571.

Jaimie Borisoff

Sawatzky B, Herrington B, Choi K, Mortenson WB, Borisoff J, Sparrey C, Laskin JJ. (2022). Acute physiological comparison of sub-maximal exercise on a novel adapted rowing machine and arm crank ergometry in people with a spinal cord injury. *Spinal Cord*. 2022(Feb): 1-7.

Prescott M, Miller WC, Borisoff J, Feick R, and WB Mortenson. A conceptual framework of the route choices made by wheeled mobility device users to get around their community. *Journal of Environmental Psychology*, 2022.

Field DA, Borisoff JF, Livingstone, R; Chan, F.; Miller, B. (2022). Standing power wheelchairs and their use by children and youth with mobility limitations: An interrupted time series. *Disability and Rehabilitation: Assistive Technology*.

Prescott M, Routhier F, Labbé D, Grandisson M, Mahmood A, Morales E, Best KL, Mostafavi MA, Borisoff J, Gamache S, Sawatzky B, Miller WC, Bulk LY, Robillard JM, Jenkins HT, Seetharaman K, Mortenson, WB. (2022). Providing Accessible Recreation Outdoors-User-Driven Research on Standards (PARCOURS): Protocol for a Multiphase Study. *JMIR Research Protocols*. 11(3): e33611.

Derakhshan, P; Miller, WC; Borisoff, J; Esfandiari, E; Forwell, S; Jarus, T; Mohammadi, S; Rash, I; Sakakibara, B; Schmidt, J; Tao, G; Tregobov, N; Mortenson, WB. (2022). Describing the Function, Disability, and Health of Adults With Disabilities and Older Adults During the Early Coronavirus Disease 2019. *Pandemic Restrictions. Disabilities* 2022, 2(4), 575-587; doi: /10.3390/disabilities2040041

Andrea Bundon

Trainor, L., Bennett, E., Bundon, A., Tremblay, M., Mannella, S. & Crocker, P.R.E. (aop). Inescapable tensions: Performance and/or psychological well-being in Olympic and Paralympic athletes during sport disruption. *Qualitative Research in Sport, Exercise and Health*.

Sauvé, J.L., Waldhauser, K., Wilson, B., Bundon, A. & Beauchamp, M.R. (aop). What supports and what thwarts Olympic athlete well-being? Coach and organizational perspectives. *Journal of Applied Sport Psychology*.

Jeawon, M., Hase, B., Miller, S., Eng, J.J., Bundon, A., Chaudhury, H., Maffin, J., Clarkon, R., Wright, J., & Mortenson, W.B. (aop). Understanding the experiences of people with incomplete spinal cord injury who can ambulate. *Disability and Rehabilitation*.

Bundon, A., Trainor, L. R., Bennett, E. V., Tremblay, M. I., Mannella, S., & Crocker, P. R. (2022). From minding the gap to widening the gap: Paralympic athletes' experiences of wellbeing during the postponement of the Tokyo 2020 games. *Frontiers in Sports and Active Living*.

Mesa, A., Grasdahl, M., Leong, S., Dean, N. A., Marwaha, A., Lee, A., Berger, M., Bundon, A., & Krassioukov, A. V. (aop). Effect of the COVID-19 pandemic on individuals with Spinal Cord Injury: Mental health and use of telehealth. *PM & R The Journal of Injury, Function, and Rehabilitation*.

Dean, N. A., Marwaha, A., Grasdahl, M., Leong, A., Mesa, A., Krassioukov, A. & Bundon, A. (aop). Perspectives from the Spinal Cord Injury community with teleSCI services during the COVID-10 pandemic: A qualitative study. *Disability and Rehabilitation: Assistive Technology*.

Bennett, E., Trainor, L., Bundon, A., Tremblay, M., Mannella, S. & Crocker, P.R.E. (2022). From “blessing in disguise” to “what do I do now?” Canadian Olympic and Paralympic hopefuls’ coping and adaptation to the postponement of the Tokyo 2020 Games. *Psychology of Sport and Exercise*. 62, 102246

Bundon, A. & Mannella, S. (2022). Seeing without sight: the athlete/guider partnership in elite disability sport. In J. Brighton, B. Powis & P.D. Howe (Eds). *Researching Disability Sport*. Routledge.

Victoria Claydon

R. Hira, J.R. Baker, T. Siddiqui, S.I. Ranada, A. Soroush, K. Karalasingham, H. Ahmad, V. Mavai, L.M.A. Valani, S. Ambreen, K.M. Bourne, M.G. Lloyd, C.A. Morillo, R.S. Sheldon, S.R. Raj on behalf of the Canadian Long COVID Autonomic Network (CaLoCAN*) (2022) Objective hemodynamic autonomic abnormalities in post-acute sequelae of COVID-19 (PASC). *Canadian Journal of Cardiology*, In press. JIF: 6.62.

E.L. Williams, B.C.D. Hockin, N.D. Heeney, K. Elabd, H. Chong, A.P. Blaber, S.N. Robinovitch, I.T. Parsons, V. E. Claydon (2022) Exaggerated postural sway improves orthostatic cardiovascular and cerebrovascular control. *Frontiers in Cardiovascular Medicine*, 10:1040036. JIF: 5.85.

E.A. Hutcheon, V.A. Vakorin, A. Nunes, U. Ribary, S. Ferguson, V.E. Claydon, S.M. Doesburg (2022) Associations between spontaneous EEG oscillations and oxygen saturation across normobaric and hypobaric hypoxia. *Human Brain Mapping*, 44: 2345-2364. JIF: 5.04.

E.L. Williams, F.M. Khan, V.E. Claydon (2022) Counter pressure maneuvers for syncope prevention: a semi-systematic literature review and meta-analysis. *Frontiers in Cardiovascular Medicine*, 9: 1016420. JIF: 5.85.

I.S. Sahota*, V-E.M. Lucci*, H.J.C. Ravensbergen, M.S. McGrath, V.E. Claydon (2022) Cardiovascular and cerebrovascular responses to urodynamics testing after spinal cord injury: the influence of autonomic injury. *Frontiers in Physiology: Autonomic Neuroscience*, 13: 977772. JIF: 4.76. *Contributed equally to the manuscript.

R.E.Y. Wu, F.M. Khan, B.C.D. Hockin, T.C.A. Lobban, S. Sanatani, V.E. Claydon (2022) Faintly tired: a systematic review of fatigue in patients with orthostatic syncope. *Clinical Autonomic Research*, 32: 185-203. JIF: 5.63.

W. Wieling, H. Kaufmann, V.E. Claydon, V.K. van Wijnen, M.P.M. Harms, S.P. Juraschek, R. Thijs (2022) Diagnosis and treatment of orthostatic hypotension. *Lancet Neurology*, 21: 735-746. JIF: 59.94.

I.T. Parsons, B.C.D. Hockin, O Taha, N.D. Heeney, E.L. Williams, V-E.M. Lucci, R.H.Y. Lee, M.J. Stacey, N. Gall, P. Chowienzyk, D.R. Woods, V.E. Claydon (2022) The effect of water temperature on orthostatic tolerance: a randomised crossover trial. *Clinical Autonomic Research*, 32: 131-141. JIF: 5.63.

V-E.M. Lucci, R.C. McKay, C.B. McBride, M.S. McGrath, R. Willms, H.L. Gainforth, V.E. Claydon (2022) Barriers and facilitators to changing bowel care practices after spinal cord injury: a theoretical domains framework approach. *Spinal Cord*, 60: 664-673. JIF: 2.47.

B.C.D. Hockin, N.D. Heeney, D.G.T. Whitehurst, V.E. Claydon (2022) Evaluating the impact of syncope and presyncope on quality of life: a systematic review and meta-analysis. *Frontiers in Cardiovascular Medicine*, 9: 834879. JIF: 5.85.

C.J. Mathias, D.A. Low, V.E. Claydon (2022) Autonomic disturbances following spinal cord injury. In: *Primer on the Autonomic Nervous System*. Ed: D. Robertson, G. Burnstock, J.F.R. Paton, I. Biaggioni, P.A. Low. Elsevier Inc., 4th edition. Chapter 103, pages 599-606.

W. Wieling and V.E. Claydon (2022) Physiology of the upright posture. In: *Primer on the Autonomic Nervous System*. Ed: D. Robertson, G. Burnstock, J.F.R. Paton, I. Biaggioni, P.A. Low. Elsevier Inc., 4th edition. Chapter 34, pages 199-202.

Jacquelyn Cragg

Crispo JAG, Liu L, Bach P, Ansell DR, Sivapathasundaram B, Nguyen F, Kurdyak P, Seitz DP, Conlon M, Cragg JJ. Amphetamine-Related Emergency Department Visits in Ontario, Canada, 2003-2020. *Can J Psychiatry*. 2023 Mar 8:7067437231158933. doi: 10.1177/07067437231158933. Epub ahead of print. Featured on CTV News, Global News,

Toronto Star, CIHR Report

Jia A, Kuramoto L, Warner FM, Liu L, Williams AM, Conklin A, West CR, Cragg JJ. Sex differences in heart disease prevalence among individuals with spinal cord injury: A population-based study. *J Spinal Cord Med.* 2023 Mar 28;1-7. doi: 10.1080/10790268.2022.2147891. Epub ahead of print.

Liu LJW, Crispo JAG, Bach P, Ansell DR, Thibault D, Willis AW, Cragg JJ. Amphetamine-related care in the USA, 2003-2014: cross-sectional analyses examining inpatient trends and factors associated with hospitalisation outcomes. *BMJ Open.* 2022 Sep 20;12(9):e059898. doi: 10.1136/bmjopen-2021-059898.

Vo AK, Cerdeña JP, Loree JM, Cairns BE, Conklin AI, Kaseweter K, Chondoma L, Cragg JJ, Kramer JLK. Race-based reporting and participation of Black individuals in registered pain clinical trials, United States, 2000 to 2019. *Pain.* 2023 Apr 17. doi: 10.1097/j.pain.0000000000002893. Epub ahead of print.

Bourguignon L, Tong B, Geisler F, Schubert M, Röhrich F, Saur M, Weidner N, Rupp R, Kalke YB, Abel R, Maier D, Grassner L, Chhabra HS, Liebscher T, Cragg JJ; EMSCI study group; Kramer J, Curt A, Jutzeler CR. International surveillance study in acute spinal cord injury confirms viability of multinational clinical trials. *BMC Med.* 2022 Jun 14;20(1):225. doi: 10.1186/s12916-022-02395-0. Ludwig-Gutmann Award, German Medical Society for Paraplegia (recipient: senior author, Dr. Catherine Jutzeler)

Lee TY, Petkau J, Mangat N, Safari A, Cragg JJ, Lynd LD, FitzGerald JM, Turvey SE, Sadatsafavi M. 16-year trends in asthma hospital admissions in Canada. *Ann Allergy Asthma Immunol.* 2022 Oct;129(4):475-480.e2. doi: 10.1016/j.anai.2022.06.022. Epub 2022 Jun 30.

Peter Cripton

Fung A, Fleps I, Cripton PA, Guy P, Ferguson SJ, Helgason B. The efficacy of femoral augmentation for hip fracture prevention using ceramic-based cements: A preliminary experimentally-driven finite element investigation. *Front Bioeng Biotechnol.* 2023;11:1079644.

Fonseca G, Vakiel P, Cripton PA. UBC Neck C4-C5: An Anatomically and Biomechanically Accurate Surrogate C4-C5 Functional Spinal Unit. *Ann Biomed Eng.* 2023 Apr 14;

Yamamoto S, Whyte T, Van Toen C, Melnyk A, Shewchuk J, Street J, Cripton P, Oxland TR. The diagnostic precision of computed tomography for traumatic cervical spine injury: An in vitro biomechanical investigation. *Clin Biomech (Bristol, Avon).* 2022 Feb;92:105529.

Yamamoto S, Dias L, Street J, Cripton PA, Oxland TR. Anteroposterior shear stiffness of the upper thoracic spine at quasi-static and dynamic loading rates-An in vitro biomechanical study. *J Orthop Res.* 2022 Jul;40(7):1687-94.

Fung A, Fleps I, Cripton PA, Guy P, Ferguson SJ, Helgason B. Prophylactic augmentation implants in the proximal femur for hip fracture prevention: An in silico investigation of simulated sideways fall impacts. *J Mech Behav Biomed Mater.* 2022 Feb;126:104957.

Chung VWJ, Dias L, Booth G, Cripton PA. Incorporating neck biomechanics in helmet testing: Evaluation of commercially available WaveCel helmets. *Clinical Biomechanics.* 2022 Apr 1;94:105628.

Stacy Elliott

Invited AUA Update series for American Urological Association on Sexual and Fertility Rehabilitation of the Spinal Cord Injured Male (January 2023) Elliott, SL and Flannigan, R.

Krassioukov A, Biering-Sørensen F, Donovan W, Kennelly M, Kirshblum S, Krogh K, Alexander MS, Vogel L, Wecht J; Autonomic Standards Committee of the American Spinal Injury Association/International Spinal Cord Society. International standards to document remaining autonomic function after spinal cord injury. *J Spinal Cord Med.* 2012 Jul;35(4):201-10. doi: 10.1179/1079026812Z.00000000053. PMID: 22925746; PMCID: PMC3425875.

Rosetti L, Kanani A, Witherspoon L, Flannigan R, Elliott S. Case Series: expanding diagnostic markers in postorgasmic illness syndrome *Sexual Medicine* 2023, 11: 1 – 4 (ISSM ,Oxford) doi: /10.1093/sexmed/qfac021

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Wittmann D, Mehta A, McCaughan E, Faraday M, DUBY A, Matthew A, Incrocci L, Burnett A, Nelson CJ, Elliott S, Koontz BF, Bober SL, McLeod D, Capogrosso P, Yap T, Higano C, Loeb S, Capellari E, Glodé M, Goltz H, Howell D, Kirby

M, Bennett N, Trost L, Odiyo Ouma P, Wang R, Salter C, Skolarus TA, McPhail J, McPhail S, Brandon J, Northouse LL, Paich K, Pollack CE, Shiffert J, Erickson K, Mulhall JP. Guidelines for Sexual Health Care for Prostate Cancer Patients: Recommendations of an International Panel. *J Sex Med.* 2022 Nov;19(11):1655-1669.

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Meddings K, Klein C, Elliott S. Successful Multidisciplinary Management of Foot Pain With Orgasm: A Case Report. *Sex Med.* 2022 Apr;10(2):100499

Yuen W, Witherspoon L, Wu E, Wong J, Sheikholeslami S, Bentley J, Zarowski C, Sundar M, Elliott S, Higano C, Flannigan R. Sexual rehabilitation recommendations for prostate cancer survivors and their partners from a biopsychosocial Prostate Cancer Supportive Care Program. *Support Care Cancer.* 2022 Feb;30(2):1853-1861. doi: 10.1007/s00520-021-06335-1. Epub 2021 Oct 6.

Janice Eng

Simpson LA, Hayward KS, Boyd LA, Larssen BC, Mortenson WB, Schneeberg A, Silverberg ND, Eng JJ. Responsiveness and trajectory of changes in the rating of everyday arm-use in the community and home (REACH) scale over the first-year post-stroke. *Clin Rehabil.* 2023;37:557-568.

Jeawon M, Hase B, Miller S, Eng JJ, Bundon A, Chaudhury H, Maffin J, Clarkson R, Wright J, Mortenson WB. Understanding the experiences, needs, and strengths of people with incomplete spinal cord injury who can ambulate. *Disabil Rehabil.* 2023 Feb 5:1-10.

Mackie P, Eng JJ. The influence of seated exercises on balance, mobility, and cardiometabolic health outcomes in individuals living with a stroke: A systematic review and meta-analysis. *Clin Rehabil.* 2023 Jan 10:2692155221150002.

Peters S, Lim SB, Bayley MT, Best K, Connell LA, Corriveau H, Donkers SJ, Dukelow SP, Klassen TD, Milot MH, Sakakibara BM, Sheehy L, Wong H, Yao J, Eng JJ. Implementation of increased physical therapy intensity for improving walking after stroke: Walk 'n watch protocol for a multisite stepped-wedge cluster-randomized controlled trial. *Int J Stroke.* 2023;18:117-122.

Yang CL, Simpson LA, Eng JJ. A pilot study for remote evaluation of upper extremity motor function after stroke: The Arm Capacity and Movement Test (ArmCAM). *Am J Occup Ther.* 2023 Jan 1;77(1):7701205020

Peters S, Lohse KR, Klassen TD, Liu-Ambrose T, Dukelow SP, Bayley MT, Hill MD, Pooyania S, Yao J, Eng JJ. Higher intensity walking improves global cognition during inpatient rehabilitation: a secondary analysis of a randomized control trial. *Front Neurol.* 2023 Jun 9;14:1023488.

Sakakibara BM, Wiley E, Barclay R, Bayley M, Davis JC, Eng JJ, Harris A, Inness EL, MacKay-Lyons M, Monaghan J, Pollock C, Pooyania S, Schneeberg A, Teasell R, Yao J, Tang A. TeleRehabilitation with Aims to Improve Lower extremity recovery in community-dwelling individuals who have had a stroke: protocol for a multisite, parallel group, assessor-blinded, randomised attention-controlled trial. *BMJ Open.* 2023 Jul 19;13(7):e076723.

Yang CL, Chui R, Mortenson WB, Servati P, Servati A, Tashakori A, Eng JJ. Perspectives of users for a future interactive wearable system for upper extremity rehabilitation following stroke: a qualitative study. *J Neuroeng Rehabil.* 2023 Jun 13;20(1):77.

Bennett KJ, Leese J, Davis JC, Eng JJ, Liu-Ambrose T. Exploring the experience of cognitive changes among community-dwelling stroke survivors: a qualitative study. *Disabil Rehabil.* 2023 May 22:1-8.

Obembe AO, Simpson LA, Eng JJ. The relationship between Rating of Everyday Arm-use in the Community and Home (REACH) scale affected arm-use assessment, activity and participation after stroke. *Physiother Res Int.* 2023 Apr 27:e2010.

Charlton JM, Krowchuk NM, Eng JJ, Li LC, Hunt MA. Remotely delivered, individualized, and self-directed gait modification for knee osteoarthritis: A pilot trial. *Clin Biomech (Bristol, Avon).* 2023 Jun;106:105981.

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Atoyebi O, Eng JJ, Routhier F, Bird ML, Mortenson WB. A systematic review of systematic reviews of needs of family caregivers of older adults with dementia. *Eur J Ageing*. 2022;19(3):381-396.

Crockett RA, Hsu CL, Dao E, Tam R, Eng JJ, Handy TC, Liu-Ambrose T. Weight for it: Resistance training mitigates white matter hyperintensity-related disruption to functional networks in older females. *J Alzheimers Dis*. 2022;90:553-563

Lim SB, Yang CL, Peters S, Liu-Ambrose T, Boyd LA, Eng JJ. Phase-dependent brain activation of the frontal and parietal regions during walking after stroke - An fNIRS study. *Front Neurol*. 2022 Jul 19;13:904722.

Lim SB, Peters S, Yang CL, Boyd LA, Liu-Ambrose T, Eng JJ. Frontal, sensorimotor, and posterior parietal regions are involved in dual-task walking after stroke. *Front Neurol*. 2022 Jun 22;13:904145.

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Heather Gainforth

Herbison J.D., Osborne M., Andersen J., Lepage P., Pagé V., Levasseur C., Beckers M., Gainforth H.L., Lamontagne M.E., Sweet S.N. (2023). Strategies to improve access to physical activity opportunities for people with physical disabilities. *Translational Behavioral Medicine*. doi: 10.1093/tbm/ibac119

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Hoekstra F., Martin Ginis K.A., Collins, D., Dinwoodie, M., Ma, J.K., Gaudet, S. Rakiiecki, D., SCI Exercise Counselling Panel, Gainforth H.L. (2023). Applying state space grids methods to characterize counsellor-client interactions in a physical activity behavioural intervention for adults with disabilities. *Psychology of Sport and Exercise*. doi: 10.1016/j.psychsport.2022.102350

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Cary, M. A., Plamondon, K., Banner-Lukaris, D., Oelke, N., Sibley, K. M., Baxter, K., Vis-Dunbar, M., Hoens, A. M., Wick, U., Bigsby, S., Wuerstl, K., & Gainforth, H. (2022). Building consensus in research partnerships: a scoping review of consensus methods. *Evidence & Policy*. doi:10.1332/174426421X16645354235140

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Counsellor-client interactions in a physical activity behavioural intervention for adults with disabilities: A State Space Grid analysis study. *Psychology of Sport and Exercise*. doi: /10.31219/osf.io/jcenh

Sibley, K. M., Khan, M., Banner, D., Driedger, S. M., Gainforth, H. L., Graham, I D., & Plamondon, K. (2022). Recognition of Knowledge Translation Practice in Canadian Health Sciences Tenure and Promotion Documents: A Summative Content Analysis. *PLOS ONE*. doi: /10.1371/journal.pone.0276586

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Cradock, K. A., Quinlan, L. R., Finucane, F. M., Gainforth, H. L., Ginis, K. A. M., Sanders, E. B. N., & ÓLaighin, G. (2022). Design of a Planner-Based Intervention to Facilitate Diet Behaviour Change in Type 2 Diabetes. *Sensors*, 22(7), 2795.

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Lucci, V. E. M., McKay, R. C., **McBride, C. B., **McGrath, M. S., **Willms, R., Gainforth, H. L., & Claydon, V. E. (2022). Barriers and facilitators to changing bowel care practices after spinal cord injury: A Theoretical Domains Framework approach. *Spinal Cord*, 1-10.

Osborne, J. B., Rocchi, M. A., **McBride, C. B., McKay, R., Gainforth, H. L., Upper, R., & Sweet, S. N. (2022). Couples' experiences with sexuality after spinal cord injury. *Disability and Rehabilitation*, 1-9.

David Granville

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