

STROKE RESEARCH PUBLICATIONS

2019 PUBLICATIONS:

T.George Hornby, Christopher E. Henderson, Abbey Plawecki, Emily Lucas, Jennifer Lotter, Molly Holthus, Gabrielle Brazg, Meghan Fahley, Jane Woodward, **Marzieh Ardestani,** Elliot J. Roth. Contributions of Stepping Intensity and Variability to Mobility in Individuals Post stroke. *Stroke*. 2019 Sep;50(9):2492-2499. doi: 10.1161/STROKEAHA.119.026254

Ardestani, MM. Compensation or Recovery? Altered Kinetics and Neuromuscular Synergies Following High-Intensity Stepping Training Poststroke. *Neurorehabil Neural Repair*. 2019 Jan;33(1):47-58. doi: 10.1177/1545968318817825.

Backhaus S, Neumann D, Parrot D, Hammond F, Brownson C, Malec J: A Couples' Intervention to Enhance Relationships after Brain Injury (Couples CARE): A Randomized, Controlled Trial. *Arch Phys Med Rehabil*. February 2019;100 (2):195-204.

Beaulieu CL, Peng J, Hade EM, Corrigan JD, Seel RT, Dijkers MP, **Hammond FM,** Horn SD, Timpson ML, Swan M, Bogner J. Impact of Level of Effort on the Effects of Compliance with the 3-Hour Rule. *Arch Phys Med Rehabil* (2019), doi: [https:// doi.org/10.1016/j.apmr.2019.01.014](https://doi.org/10.1016/j.apmr.2019.01.014).

Woodward JL, Connolly M, Hennessy PW, Holleran CL, Mahtani GB, Brazg G, Fahey M, Maganti K, **Hornby TG.** Cardiopulmonary Responses During Clinical and Laboratory Gait Assessment in People With Chronic Stroke. *Phys Ther*. 2018 Nov 26. doi: 10.1093/ptj/pzy128. [Epub ahead of print]. PMID: 30476281.

2018 PUBLICATIONS:

Strong, E., Swan, L., and **Neumann, D.** Clinical Implementation of a Facial Affect Recognition Intervention During Outpatient Therapy after Brain Injury. *Archives of Physical Medicine and Rehabilitation*. December 2018, 99 (12), pp e194 e195.
DOI: <https://doi.org/10.1016/j.apmr.2018.09.018>

2017 PUBLICATIONS:

Danilovich M, Conroy D, **Hornby TG.** Feasibility and impact of high intensity walking training in frail older adults. *J Aging Phys Act*. 2017 Jan 25:1-17. doi: 10.1123/japa.2016-0305. [Epub ahead of print].

Zorowitz, RD, Wein, TH, Dunning, K, Deltombe, T, Olver, J, **Davé, S**, Dimyan, M, Kelemen, J, Pagan, F, Evans, C, Gillard, P, and Kissela, B. A screening tool to identify spasticity in need of treatment. *American Journal of Physical Medicine and Rehabilitation*, May 2017, 96 (5), 315-320.

Hammond FM, Katta-Charles S: Magnetic Encephalography, Visual Evoked Potentials, Somatosensory Evoked Potentials, Brainstem Auditory Evoked Potentials, Coronary Artery Bypass Graft, Serum Amytal Test. *Encyclopedia of Clinical Neuropsychology*, Eds: Kreutzer JS, DeLuca J, Caplan B. 2nd ed, Vol 1-4, 2017. Springer, New York, NY.

Moore JL, Carpenter J, Doyle AM, Doyle L, Hansen P, Hahn B, **Hornby TG**, Roth HR, Spoeri S, Tappan R, Van Der Laan K. Development, Implementation and Use of a Process to Promote Knowledge Translation in Rehabilitation. *Arch Phys Med Rehabil*. 2017 Sep 16. PMID:28928025.

2016 PUBLICATIONS:

Backhaus S, Neumann D, Parrot D, Brownson C, Hammond FM, Malec JF. Examination of an intervention to enhance relationship satisfaction after brain injury: a feasibility study. *Brain Injury* 2016;16:1-11.

Chen S, Andary M, **Buschbacher R**, Del Toro D, Smith B, So Y, Zimmermann K, Dillingham T: Electrodiagnostic reference values for upper and lower limb nerve conduction studies in adult populations. *Muscle Nerve* 54;371-377:2016.

Dillingham T, Chen S, Andary M, **Buschbacher R**, Del Toro D, Smith B, Zimmermann K, So Y: Establishing high-quality reference values for nerve conduction studies: a report from the normative data task force of the american association of neuromuscular and electrodiagnostic medicine. *Muscle Nerve* 54;366-370:2016

Hornby TG, Holleran CL, Hennessy PW, Leddy AL, Connolly M, Camardo J, Woodward J, Mahtani G, Lovell L, Roth EJ Variable Intensive Early Walking Poststroke (VIEWS): A Randomized Controlled Trial. *Neurorehabilitation and Neural Repair*. 2016;30(5):440-50. DOI:10.1177/1545968315604396.

Hornby TG, Moore JL, Lovell L, Roth EJ. Influence of skill and exercise training parameters on locomotor recovery during stroke rehabilitation. *Curr Opin Neurol*. 2016 Dec;29(6):677-683.

Leddy AL, Connolly M, Holleran CL, Hennessy PW, Woodward J, Mahtani G, Arena R, Roth E. **Hornby TG**. Alterations in aerobic exercise performance and gait economy following high intensity dynamic stepping training in subacute stroke. *Journal of Neurologic Physical Therapy*. 2016;40(4):239-48.

Mahtani GB, Kinnaird CR, Connolly M, Holleran CL, Hennessy PW, Woodward J, Brazg G, Roth EJ, **Hornby TG**. Altered sagittal- and frontal-plane kinematics following high-intensity stepping training versus conventional interventions in subacute stroke. *Physical Therapy*, Epub ahead of print, 9/15/16; PMID: 27634921.

Books

Kumbare D, Robinson L, **Buschbacher R**. *Buschbacher's Manual of Nerve Conduction Studies*, 3rd ed. Demos, NY. 2016.