

Stroke Research Publications

2024 PUBLICATIONS

Groves, C., Seigel, CR., Bartlett, S., Williams, LS., **Parrott, D.R.**, & Comer, A.R. Abstract TP92: Feasibility of a Poststroke Without-Fail Care Rate to Assess Rehabilitation and Follow-Up Care. *Stroke*, 55(11, Suppl), 2024 February 1. doi.org/10.1161/str.55.suppl_1.TP92.

Hornby TG, Plawecki A, Lotter JK, Shoger LH, Voigtmann C, Inks E, Henderson CE. Acute Intermittent Hypoxia With High-Intensity Gait Training in Chronic Stroke: A Phase II Randomized Crossover Trial. *Stroke*. 2024. Jun 11. Epub ahead of print.
<https://doi.org/10.1161/STROKEAHA.124.0472>.

Thompson ED, Pohlig RT, McCartney KM, **Hornby TG**, Kasner SE, Raser-Schramm J, Miller AE, **Henderson CE**, Wright H, Wright T, Reisman DS. Increasing Activity After Stroke: A Randomized Controlled Trial of High-Intensity Walking and Step Activity Intervention. *Stroke*. 2024 Jan;55(1):5-13. doi: 10.1161/STROKEAHA.123.044596. Epub 2023 Dec 22. PMID: 38134254; PMCID: PMC10752299.

2022 PUBLICATIONS

Henderson CE, Moore JL, Vivra R, Lenca L, Butzer JF, Lovell L, Roth EJ, **Hornby TG**. Gait and Balance Outcome Measures are Responsive in Severely Impaired Individuals Undergoing Inpatient Stroke Rehabilitation *Arch Phys Med Rehabil*.103(6):1210-1212. PMID: 35093332.

Henderson CE, Plawecki A, Lotter JK, Lucas EH, Scofield M,. **Carbone A**, Jang J, **Hornby TG**. Increasing the Amount and Intensity of Stepping Training During Inpatient Stroke Rehabilitation Improves Locomotor and Non-Locomotor Outcomes. *Neurorehabil Neural Repair*. 2022, 36(9):621- 632. PMID: 36004813.

Henderson CE, Plawecki A, Lucas E, **Lotter JK, Scofield M, Carbone A**, Jang JH, **Hornby TG**. Increasing the Amount and Intensity of Stepping Training During Inpatient Stroke Rehabilitation Improves Locomotor and Non-Locomotor Outcomes. *Neurorehabil Neural Repair*. 2022 Sep;36(9):621-632. doi: 10.1177/15459683221119759. Epub 2022 Aug 25. PMID: 36004813.

Henderson CE, Toth L, Kaplan A, **Hornby TG**. Step Count Accuracy During Post-Stroke Physical Therapy and Simulated Activities. *Transl J Am Coll Sports Med*. Winter 2022; 7(1):e000186.

Henderson CE, Toth L, Kaplan A, **Hornby TG**. Step Monitor Accuracy During Post-Stroke Physical Therapy and Simulated Activities. *Trans J Amer Coll Sports Med*. NIHMS1745420. Winter;7(1):e000186. doi: 10.1249/tjx.0000000000000186. PMID: 35425853.

Henderson CE, Virva R, Lenca L, Butzer JF, Lovell, Roth E, **Hornby TG**, Moore JL. Gait and Balance Outcome Measures are Responsive in Severely Impaired Individuals Undergoing

Inpatient Stroke Rehabilitation. *Arch Phys Med Rehabil.* 2022. Jan 27;S0003-9993(22)00159-9. doi: 10.1016/j.apmr.2022.01.140. PMID: 35093332.

Hornby, TG. Rethinking the Tools in the Toolbox. *J Neuroeng Rehabil.* 2022 Jun 20;19(1):61. PMID: 35725474.

Hornby TG, Plawecki A, Lotter JK, Lucas EH, Scofield M, Henderson CE. Gains in Daily Stepping Activity in People with chronic stroke after High-Intensity Gait Training in Variable Contexts. *Phys Ther.* 2022 Jun 7;pzac073. Online ahead of print. PMID: 35670001.

Hornby TG, Plawecki A, Lotter JK, Scofield ME, Lucas E, Henderson CE. Gains in Daily Stepping Activity in People With Chronic Stroke After High-Intensity Gait Training in Variable Contexts. *Phys Ther.* 2022 Aug 4;102(8):pzac073. doi: 10.1093/ptj/pzac073. PMID: 35670001; PMCID: PMC9396452.

2021 PUBLICATIONS

Hornby TG, Rafferty MR, Pinto D, French D, Jordan NE. Cost-effectiveness of high-intensity training versus conventional therapy for individuals with subacute stroke. *Arch Phys Med Rehabil.* 2021 July doi: 10.1016/j.apmr.2021.05.017

2020 PUBLICATIONS

Ardestani MM, **Henderson CE**, Mahtani G, Connolly M, **Hornby TG.** Locomotor Kinematics and Kinetics Following High-Intensity Stepping Training in Variable Contexts Poststroke. *Neurorehabil Neural Repair.* 2020 Jul;34(7):652-660. doi: 10.1177/1545968320929675. Epub 2020 Jun 6. PMID: 32507027.

Henderson CE, Moore JL, Brazg G, Fahey M, Hornby TG. Predicting discharge walking function with high-intensity stepping training performed during inpatient rehabilitation in non-ambulatory patients post-stroke. *Arch Phys Med Rehabil.* 28 Dec 2020:S0003-9993(20)31339-3. doi: 10.1016/j.apmr.2020.09.399.

Hornby TG, Henderson CE, Holleran CL, Lovell L, Roth EJ, Jang JH. (2020) Stepwise Regression and Latent Profile Analyses of Locomotor Outcomes Poststroke. *Stroke.* Oct;51(10):3074-3082. doi: 10.1161/STROKEAHA.120.031065. Epub 2020 Sep 4. PMID: 32883192.

Moore JL, Virva R, **Henderson C**, Lenca L, Butzer JF, Lovell L, Roth E, Graham ID, **Hornby TG.** Applying the Knowledge-to-Action Framework to Implement Gait and Balance Assessments in Inpatient Stroke Rehabilitation. *Arch Phys Med Rehabil.* 27 Nov 2020:S0003-9993(20)31255-7.

Moore JL, Nordvik JE, Erichsen A, Rosseland I, Bo E, **Hornby TG.** FIRST-Oslo Team. Implementation of High-Intensity Stepping Training During Inpatient Stroke Rehabilitation Improves Functional Outcomes. *Stroke.* 2020 Feb;51(2):563-570. doi:10.1161/STROKEAHA.119.027450. [Epub ahead of print].