

Stroke Research Publications

2025 PUBLICATIONS

Groves CC, Damush TM, Myers LJ, Baye F, Daggy JK, Perkins AJ, Martin H, Mounsey L, Clark DO, Williams LS. Enhancing Stroke Awareness and Activation Among High-Risk Populations: A Randomized Direct Mail Intervention in Diverse Healthcare Settings. *Circ Cardiovasc Qual Outcomes*. 2025 Mar 24:e011425. doi: 10.1161/CIRCOUTCOMES.124.011425. Epub ahead of print. PMID: 40123486.

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].