

ANPT Degenerative Diseases SIG & JNPT Collaboration: Improvement in the Capacity for Activity Versus Improvement in Performance of Activity in Daily Life During Outpatient Rehabilitation– with Catherine Lang and Carey Holleran – Episode 32

In this episode, we talk with Dr. Catherine Lang and Dr. Carey Holleran from Washington University in St. Louis about their article scheduled for publication in the January 2023 issue of JNPT titled “Improvement in the Capacity for Activity Versus Improvement in Performance of Activity in Daily Life During Outpatient Rehabilitation.” Dr. Lang and Dr. Holleran discuss the difference between patients’ capacity in the clinic and their functional performance outside of the clinical setting. In this multi-site trial, they compared performance and capacity measures for patients with Parkinson disease and stroke, measuring upper limb and lower limb function. Tune in to hear more about their statistical analysis, selection of outcomes, and clinical implications of considering performance when evaluating patients, setting goals, and measuring progress. The Degenerative Diseases Special Interest Group is part of the Academy of Neurologic Physical Therapy – www.neuroPT.org

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Featured Article

Lang CE, Holleran CL, Strube MJ, Ellis TD, Newman CA, Fahey M, DeAngelis TR, Nordahl TJ, Reisman DS, Earhart GM, Lohse KR, Bland MD. Improvement in the Capacity for Activity Versus Improvement in Performance of Activity in Daily Life During Outpatient Rehabilitation. *J Neurol Phys Ther.* 2022 Aug 4. doi: 10.1097/NPT.0000000000000413. Epub ahead of print.

Referenced Articles

Bailey, R. R., Klaesner, J. W., & Lang, C. E. (2014). An accelerometry-based methodology for assessment of real-world bilateral upper extremity activity. *PLoS ONE*, 9(7). <https://doi.org/10.1371/journal.pone.0103135>

- Doman, C. A., Waddell, K. J., Bailey, R. R., Moore, J. L., & Lang, C. E. (2016). Changes in upper-extremity functional capacity and daily performance during outpatient occupational therapy for people with stroke. *The American Journal of Occupational Therapy, 70*(3). <https://doi.org/10.5014/ajot.2016.020891>
- Holleran, C. L., Bland, M. D., Reisman, D. S., Ellis, T. D., Earhart, G. M., & Lang, C. E. (2020). Day-to-day variability of walking performance measures in individuals poststroke and individuals with parkinson disease. *Journal of Neurologic Physical Therapy, 44*(4), 241–247. <https://doi.org/10.1097/npt.0000000000000327>
- Lang, C. E., Wagner, J. M., Dromerick, A. W., & Edwards, D. F. (2006). Measurement of upper-extremity function early after stroke: Properties of the action research arm test. *Archives of Physical Medicine and Rehabilitation, 87*(12), 1605–1610. <https://doi.org/10.1016/j.apmr.2006.09.003>
- Waddell, K. J., & Lang, C. E. (2018). Comparison of self-report versus sensor-based methods for measuring the amount of upper limb activity outside the clinic. *Archives of Physical Medicine and Rehabilitation, 99*(9), 1913–1916. <https://doi.org/10.1016/j.apmr.2017.12.025>