



Multiple Sclerosis & GAITRite papers

Motl, R. W. *et al.* Combined training improves walking mobility in persons with significant disability from multiple sclerosis: a pilot study. *J. Neurol. Phys. Ther.* **36**, 32–7 (2012).

Wühr, M., Schniepp, R. & Jahn, K. 4-aminopyridine improves cerebellar tremor in a patient with multiple sclerosis. *Klinische Neurophysiologie* **43**, (2012).

Nogueira, L. A. C. *et al.* Gait characteristics of multiple sclerosis patients in the absence of clinical disability. *Disabil. Rehabil.* **35**, 1472–8 (2013).

Sosnoff, J. J., Weikert, M., Dlugonski, D., Smith, D. C. & Motl, R. W. Quantifying gait impairment in multiple sclerosis using GAITRite technology. *Gait Posture* **34**, 145–147 (2011).

Socie, M. J., Motl, R. W., Pula, J. H., Sandroff, B. M. & Sosnoff, J. J. Gait variability and disability in multiple sclerosis. *Gait Posture* **38**, 51–55 (2013).

Hebert, J. R. & Corboy, J. R. The association between multiple sclerosis-related fatigue and balance as a function of central sensory integration. *Gait Posture* **38**, 37–42 (2013).

Sosnoff, J. J., Sandroff, B. M. & Motl, R. W. Quantifying gait abnormalities in persons with multiple sclerosis with minimal disability. *Gait Posture* **36**, 154–6 (2012).

Bethoux, F. Gait disorders in multiple sclerosis. *Continuum (Minneap. Minn.)* **19**, 1007–22 (2013).

Dixon, J. *et al.* Effect of textured insoles on balance and gait in people with multiple sclerosis: an exploratory trial. *Physiotherapy (United Kingdom)* (2013).

Nieuwenhuis, M., Van Tongeren, H., Sørensen, P. & Ravnborg, M. The Six Spot Step Test: a new measurement for walking ability in multiple sclerosis. *Mult. Scler.* **12**, 495–500 (2006).

Lo, A. C. & Triche, E. W. Improving gait in multiple sclerosis using robot-assisted, body weight supported treadmill training. *Neurorehabil. Neural Repair* **22**, 661–71 (2008).

Sandroff, B. M., Klaren, R. E., Pilutti, L. a & Motl, R. W. Oxygen cost of walking in persons with multiple sclerosis: disability matters, but why? *Mult. Scler. Int.* **2014**, 162765 (2014).

Van den Berg, M. E. L., Newman, M. A., Dawes, H. & Wade, D. 20.33 A randomised crossover trial: The effects of aerobic treadmill training on gait characteristics, walking



speed and endurance and fatigue in individuals with multiple sclerosis. *Gait Posture* **21, Supple**, S135 (2005).

Motl, R. W., Sandroff, B. M., Suh, Y. & Sosnoff, J. J. Energy Cost of Walking and Its Association With Gait Parameters, Daily Activity, and Fatigue in Persons With Mild Multiple Sclerosis. *Neurorehabilitation and Neural Repair* **26**, 1015–1021 (2012).

Motl, R. W., Sandroff, B. M., Suh, Y. & Sosnoff, J. J. Energy Cost of Walking and Its Association With Gait Parameters, Daily Activity, and Fatigue in Persons With Mild Multiple Sclerosis. *Neurorehabil. Neural Repair* (2012). doi:10.1177/1545968312437943

Sandroff, B. M., Sosnoff, J. J. & Motl, R. W. Physical fitness, walking performance, and gait in multiple sclerosis. *J. Neurol. Sci.* **328**, 70–76 (2013).

Kalron, A., Dvir, Z. & Achiron, A. Walking while talking—Difficulties incurred during the initial stages of multiple sclerosis disease process. *Gait Posture* **32**, 332–335 (2010).

Sandroff, B. M. *et al.* Accuracy of StepWatchTM and ActiGraph accelerometers for measuring steps taken among persons with multiple sclerosis. *PLoS One* **9**, (2014).

Stone, L. Teamwork, Trends and Technology: New Solutions in Multiple Sclerosis. *Int. J. MS Care* **11**, (2009).

Motl, R. W. *et al.* Cognitive processing speed has minimal influence on the construct validity of Multiple Sclerosis Walking Scale-12 scores. *J. Neurol. Sci.* **335**, 169–173 (2013).

Gianfrancesco, M. A. *et al.* Speed- and cane-related alterations in gait parameters in individuals with multiple sclerosis. *Gait Posture* **33**, 140–142 (2011).

Spain, R. I. *et al.* Body-worn motion sensors detect balance and gait deficits in people with multiple sclerosis who have normal walking speed. *Gait Posture* **35**, 573–578 (2012).

Balantrapu, S., Sandroff, B. M., Sosnoff, J. J. & Motl, R. W. Perceived Impact of Spasticity Is Associated with Spatial and Temporal Parameters of Gait in Multiple Sclerosis. *ISRN Neurology* **2012**, 1–6 (2012).

Givon, U., Zeilig, G., Achiron, A. & Givon, U. Zeilig, G. Achiron, A. Gait analysis in multiple sclerosis: characterization of temporal-spatial parameters using GAITRite functional ambulation system. *Gait Posture* **29**, 138–42 (2009).

Zeilig, L., Friedman, I., Chen, M. & Al, E. Computerised gait analysis in patients with multiple sclerosis. *NA* **98**

Corporaal, S. H. A. *et al.* Balance control in multiple sclerosis: Correlations of trunk sway during stance and gait tests with disease severity. *Gait Posture* **37**, 55–60 (2013).



Balantrapu, S., Sosnoff, J. J., Pula, J. H., Sandroff, B. M. & Motl, R. W. Leg spasticity and ambulation in multiple sclerosis. *Mult. Scler. Int.* **2014**, 649390 (2014).

Monticone, M. *et al.* Reliability of spatial-temporal gait parameters during dual-task interference in people with multiple sclerosis. A cross-sectional study. *Gait and Posture* (2014).

Feys, P. *et al.* Spatio-temporal gait parameters change differently according to speed instructions and walking history in MS patients with different ambulatory dysfunction. *Mult. Scler. Relat. Disord.* **2**, 238–246 (2013).

Hwang, Y.-I., Yoo, W.-G., An, D.-H. & Heo, H.-J. The effect of an AFO-shaped elastic band on drop-foot gait in patients with central neurological lesions. *NeuroRehabilitation* **32**, 377–383 (2013).

Munoz-Lasa, S., Ferriero, G., Valero, R., Rabini, A. & Varela, E. Effect of therapeutic horseback riding on balance and gait. *G Ital Med Lav Erg* 462–467 (2011).

Sacco, R., Bussman, R., Oesch, P., Kesselring, J. & Beer, S. Assessment of gait parameters and fatigue in MS patients during inpatient rehabilitation: a pilot trial. *J. Neurol.* **258**, 889–894 (2011).

Barker, S. P., Freedman, W. & Hillstrom, H. A novel method of producing a repetitive dynamic signal to examine reliability and validity of gait analysis systems. *Gait Posture* **24**, 448–452 (2006).

Gait CCRE. *Stepping Out.* (2006).

Gouelle, A., Megrot, F., Presedo, A., Pennecot, G.-F. & Yelnik, A. Validity of Functional Ambulation Performance Score for the evaluation of spatiotemporal parameters of children's gait. *J. Mot. Behav.* **43**, 95–100 (2011).

GAITRite. *Selected gait and dynamic balance articles.* **77**, (2009).

NeuroCom International, I. *Balance Manager Systems: Clinical Interpretation Guide.* **6744**, (1991).