

Title: Episode 2: Dr. Nora Fritz on Dual Tasking in Degenerative Diseases

In this episode, we talk to Dr. Nora Fritz about the assessment of dual task ability and treatment strategies for dual task conditions in people with neurodegenerative diseases. Nora also explains some of her up and coming neuroimaging studies in people with MS and telerehab for people with MS.

Guest information

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Referenced articles

Fritz NE, Keller J, Calabresi PA, Zackowski KM. Quantitative measures of walking and strength provide insight into brain corticospinal tract pathology in multiple sclerosis. *Neuroimage Clin.* 2017 Feb 20;14:490-498. doi: 10.1016/j.nicl.2017.02.006.

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Strouwen C, Molenaar EA, Münks L, Keus SH, Bloem BR, Rochester L, Nieuwboer A. Dual tasking in Parkinson's disease: should we train hazardous behavior? *Expert Rev Neurother.* 2015;15(9):1031-9. doi: 10.1586/14737175.2015.1077116.

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Mclsaac TL, Lamberg EM, Muratori LM. Building a framework for a dual task taxonomy. *Biomed Res Int.* 2015;2015:591475. doi: 10.1155/2015/591475.

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10.1097/NPT.0000000000000090. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4470324/>

Kratz AL, Atalla M, Myles A, Thurston TL, Fritz NE. Feasibility, Acceptability and Effectiveness of Telephone-Delivered Exercise Therapy to Target Multiple Sclerosis Fatigue. CSM 2019 Platform Presentation. <https://journals.lww.com/jnpt/Pages/CSMabstractarchive.aspx>

Related links

Online Stroop Test (University of Washington):

<https://faculty.washington.edu/chudler/java/ready.html>

Stroop test app (Encephalapp): <http://www.encephalapp.com/>

BICAMS (Brief International Cognitive Assessment for MS): <https://www.bicams.net/>

Symbol Digit Modalities Test:

<https://www.wpspublish.com/store/p/2955/sdmt-symbol-digit-modalities-test>

Cleveland Clinic Mellen Center for Multiple Sclerosis (Resources):

<https://my.clevelandclinic.org/departments/neurological/depts/multiple-sclerosis#resources-tab>

Related articles

Kloos AD, Kegelmeyer DA, Fritz NE, Daley AM, Young GS, Kostyk SK Cognitive Dysfunction Contributes to Mobility Impairments in Huntington's Disease. *J Huntingtons Dis.* 2017;6(4):363-370. doi: 10.3233/JHD-170279.

Fritz NE, McCarthy CJ, Adamo DE. Handgrip strength as a means of monitoring progression of cognitive decline - A scoping review. *Ageing Res Rev.* 2017 May;35:112-123. doi: 10.1016/j.arr.2017.01.004.

Fritz NE^{1,2,3}, Roy S⁴, Keller J², Prince J⁵, Calabresi PA⁶, Zackowski KM^{2,3} Pain, cognition and quality of life associate with structural measures of brain volume loss in multiple sclerosis. *NeuroRehabilitation.* 2016 Oct 14;39(4):535-544

Fritz NE, Basso DM. Dual-Task training and mobility in a person with severe traumatic brain injury: a case study. *J Neurol Phys Ther.* 2013. Mar;37(1):37-43. doi: 10.1097/NPT.0b013e318282a20d. PubMed PMID: 23364169

Kloos, A., Fritz, N., Kostyk, S., Young, G., & Kegelmeyer, D. (2013). Video game play (Dance Dance Revolution) as a potential exercise therapy in Huntington's disease: a controlled clinical trial. *Clinical Rehabilitation*, 27(11), 972–982. <https://doi.org/10.1177/0269215513487235>

Link: <https://www.buzzsprout.com/361643/1360882-episode-2-dual-task-with-nora-fritz>