

Accepted Manuscript

Title: Real-World Walking in Multiple Sclerosis: Separating Capacity from Behavior

Authors: Matthew M. Engelhard, Stephen D. Patek, John C. Lach, Myla D. Goldman



PII: S0966-6362(17)30971-2
DOI: <https://doi.org/10.1016/j.gaitpost.2017.10.015>
Reference: GAIPOS 5844

To appear in: *Gait & Posture*

Received date: 13-4-2017
Revised date: 31-8-2017
Accepted date: 12-10-2017

Please cite this article as: Engelhard Matthew M, Patek Stephen D, Lach John C, Goldman Myla D. Real-World Walking in Multiple Sclerosis: Separating Capacity from Behavior. *Gait and Posture* <https://doi.org/10.1016/j.gaitpost.2017.10.015>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Real-World Walking in Multiple Sclerosis: Separating Capacity from Behavior

Matthew M. Engelhard, MD, PhD^{1*}; Stephen D. Patek, PhD¹; John C. Lach, PhD²; and Myla D. Goldman, MD, MSc³

¹Department of Systems and Information Engineering, University of Virginia

²Department of Electrical and Computer Engineering, University of Virginia

³Department of Neurology, University of Virginia

*Conducted all statistical analyses

Corresponding Author: Myla D. Goldman, MD, MSc

University of Virginia Department of Neurology

PO Box 800394

Charlottesville, Virginia 22908

P: 434-982-3936

F: 434-243-5420

Email: mdg3n@virginia.edu

WORD COUNTS: Abstract 197; Body 2,747

TITLE CHARACTER COUNT: 75

NUMBER OF FIGURES: 2 (included in both color and b&w)

NUMBER OF TABLES: 3

RUNNING HEADER: Real-World Walking in MS

KEYWORDS: Multiple Sclerosis, Gait Disorders/Ataxia, Outcomes Research, Six-Minute Walk, Habitual Physical Activity, Habitual Walking Performance, Accelerometry

Highlights

- Habitual physical activity measures the real-world impact of walking disability.
- However, it's difficult to distinguish the *ability* to walk from activity behaviors.
- New activity statistics are proposed as specific measures of walking capacity.
- Their benefit is validated in multiple sclerosis via correlation to timed walks.

ABSTRACT

Download English Version:

<https://daneshyari.com/en/article/8798683>

Download Persian Version:

<https://daneshyari.com/article/8798683>

[Daneshyari.com](https://daneshyari.com)