# Accepted Manuscript

Title: Atypical anticipatory postural adjustments during gait initiation among individuals with sub-acute stroke

Author: Roshanth Rajachandrakumar Julia E. Fraser Alison Schinkel-Ivy Elizabeth L. Inness Lou Biasin Karen Brunton

William E. McIlroy Avril Mansfield

PII: S0966-6362(16)30707-X

DOI: http://dx.doi.org/doi:10.1016/j.gaitpost.2016.12.020

Reference: GAIPOS 5269

To appear in: Gait & Posture

Received date: 29-6-2016 Revised date: 14-11-2016 Accepted date: 18-12-2016

Please cite this article as: Rajachandrakumar Roshanth, Fraser Julia E, Schinkel-Ivy Alison, Inness Elizabeth L, Biasin Lou, Brunton Karen, McIlroy William E, Mansfield Avril. Atypical anticipatory postural adjustments during gait initiation among individuals with sub-acute stroke. *Gait and Posture* http://dx.doi.org/10.1016/j.gaitpost.2016.12.020

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.



## ACCEPTED MANUSCRIPT

Atypical anticipatory postural adjustments during gait initiation among individuals with sub-

acute stroke

Roshanth Rajachandrakumar, a,b Julia E. Fraser, Alison Schinkel-Ivy, Elizabeth L. Inness, Lou

Biasin, a,b Karen Brunton, a,b William E. McIlroy, a-e Avril Mansfield a-d

<sup>a</sup>Toronto Rehabilitation Institute – University Health Network, Toronto, ON, Canada; <sup>b</sup>University of

Toronto, Toronto, ON, Canada; cHeart and Stroke Foundation Canadian Partnership for Stroke

Recovery, Toronto, ON, Canada; dSunnybrook Research Institute, Toronto, ON, Canada; University of

Waterloo, Waterloo, ON, Canada.

**CORRESPONDING AUTHOR:** Avril Mansfield, Toronto Rehabilitation Institute – University

Health Network, 550 University Ave, Toronto, ON, Canada, M5G 2A2; tel: +1-416-597-3422 ext.

7831; **email:** avril.mansfield@uhn.ca

WORD COUNT: 3100

**NUMBER OF TABLES:** 4

**NUMBER OF FIGURES: 2** 

## **HIGHLIGHTS**

• Anticipatory postural adjustments (APAs) preserve stability during gait initiation

• Individuals with stroke show 3 APA patterns: single (typical), multiple, and absent

• No differences in APA characteristics were noted between single and absent APAs

• Differences in response timing were identified between single and multiple APAs

#### **ABSTRACT**

2

## Download English Version:

# https://daneshyari.com/en/article/5707562

Download Persian Version:

https://daneshyari.com/article/5707562

<u>Daneshyari.com</u>