

Accepted Manuscript

Title: Effect of forward-directed aiding force on gait mechanics in healthy young adults while walking faster

Authors: Valdeci C. Dionisio, Christopher P. Hurt, David A. Brown



PII: S0966-6362(18)30576-9
DOI: <https://doi.org/10.1016/j.gaitpost.2018.05.018>
Reference: GAIPOS 6100

To appear in: *Gait & Posture*

Received date: 9-6-2017
Revised date: 14-5-2018
Accepted date: 16-5-2018

Please cite this article as: Dionisio VC, Hurt CP, Brown DA, Effect of forward-directed aiding force on gait mechanics in healthy young adults while walking faster, *Gait and Posture* (2018), <https://doi.org/10.1016/j.gaitpost.2018.05.018>

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.

Effect of forward-directed aiding force on gait mechanics in healthy young adults while walking faster

Effect of forward-directed aiding force on gait mechanics in healthy young adults while walking faster

Valdeci C. Dionisio, PT, PhD^{a,b,1} (vcdionisio@gmail.com) Christopher P. Hurt, PhD^a (cphurt@uab.edu) David A. Brown, PT, PhD^a (dbrownpt@uab.edu)

^aDepartment of Physical Therapy, University of Alabama at Birmingham, 1720 2nd Avenue South, Birmingham, Alabama, 35294, USA.

^bPhysical Therapy Course, Federal University of Uberlandia, 1876 Benjamin Constant St, Uberlandia, Minas Gerais, 38400-678, Brazil.

*Corresponding author

Valdeci C. Dionisio

Physical Therapy Course, Federal University of Uberlandia, 1876 Benjamin Constant St, Uberlandia, Minas Gerais, 38400-678, Brazil. Email: vcdionisio@gmail.com

Highlights

- Spatiotemporal parameters when walking fast are similar with/without aiding force
- Aiding force reduced the ankle power and propulsive forces needed to walk faster
- Aiding force allowed faster walking without extra mechanical effort

Download English Version:

<https://daneshyari.com/en/article/8798314>

Download Persian Version:

<https://daneshyari.com/article/8798314>

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