# COMPARING POSTURE CLASSIFICATIONS FROM WEARABLE CAMERAS TO ACCELEROMETRY

Julian Martinez1, Scott J. Strath1,2

1Department of Kinesiology, University of Wisconsin-Milwaukee, Milwaukee, WI

2Center for Aging and Translational Research, University of Wisconsin-Milwaukee, Milwaukee, WI

Address for correspondence:

Scott J. Strath, PhD.

University of Wisconsin-Milwaukee

College of Health Sciences

Department of Kinesiology

2400 E. Hartford Avenue

Milwaukee, WI 53201-0413

[sstrath@uwm.edu](mailto:sstrath@uwm.edu)

phone: 414 229 3666

fax: 414 229 2619

Running Title:

# Abstract

**Purpose. Methods. Results.** **Conclusion.**

# **Keywords:**

# **Introduction**

Gvvjv

# Methods

*Participants.* Ninety-nine

*Study Overview.* Participants reported

*Anthropometrics and Body Composition.*  Anthropometrics

*Resting Metabolic Rate.*  RMR was

*Physical Activity Battery.*  Each

*Physical Activity Accelerometer Monitoring.*  During each

*Data Processing: Energy Cost.* Breath-by-breath

*Data Processing: Physical Activity Accelerometer - Ngram-based Feature Representation.*

*Modeling and Statistical Methods*

# Results

*Descriptive Results.* Physical

*Predicting Energy Cost.* Table 2A, 2B, and

*Predicting Physical Activity Type Classification.*  For all

# Discussion

# Acknowledgments

This work was partially supported by grant R01-HL091019, and UL1RR031973 from the Clinical and Translational Science Award (CTSA) program of the National Center for Research Resources and the National Center for Advancing Translational Sciences. The authors would like to thank Nora E. Miller, Teresa L. Hart, Elizabeth E. Lenz, Jason Jones, and Aubri Rote for assistance with data collection.

# Conflict of Interest

The results of the present study do not constitute endorsement by the authors of the products described in this paper. The authors have no financial conflict of interest with any of the monitor manufacturers and have received no research funding from these companies.

# References