

Accepted Manuscript

Transfemoral amputee intact limb loading and compensatory gait mechanics during down slope ambulation and the effect of prosthetic knee mechanisms

D.C. Morgenroth, M. Roland, A.L. Pruziner, J.M. Czerniecki



PII: S0268-0033(18)30316-4
DOI: doi:[10.1016/j.clinbiomech.2018.04.007](https://doi.org/10.1016/j.clinbiomech.2018.04.007)
Reference: JCLB 4517
To appear in: *Clinical Biomechanics*
Received date: 26 June 2017
Accepted date: 10 April 2018

Please cite this article as: D.C. Morgenroth, M. Roland, A.L. Pruziner, J.M. Czerniecki , Transfemoral amputee intact limb loading and compensatory gait mechanics during down slope ambulation and the effect of prosthetic knee mechanisms. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Jclb*(2017), doi:[10.1016/j.clinbiomech.2018.04.007](https://doi.org/10.1016/j.clinbiomech.2018.04.007)

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.

Manuscript title: Transfemoral Amputee Intact Limb Loading and Compensatory Gait Mechanics During Down Slope Ambulation and the Effect of Prosthetic Knee Mechanisms

Morgenroth DC^{1,2}, Roland M¹, Pruziner AL³⁻⁵, Czerniecki JM^{1,2}

¹VA Rehabilitation Research and Development Center for Limb Loss and Mobility, VA Puget Sound Health Care System, Seattle, WA, USA

²Department of Rehabilitation Medicine, University of Washington, Seattle, WA, USA

³DoD/VA Extremity Trauma and Amputation Center of Excellence, USA

⁴Department of Rehabilitation, Walter Reed National Military Medical Center, Bethesda, MD, USA

⁵Department of Rehabilitation Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, USA

Corresponding author:

David C. Morgenroth, M.D.
Rehabilitation Care Services (117-RCS)
VAPSHCS
1660 S. Columbian Way
Seattle, WA 98108
USA
dmorgen@uw.edu

Acknowledgements

This material is based on work supported in part by the U.S. Department of Veterans Affairs, Office of Research and Development (VA Merit Review Grant O1474-R, Joseph Czerniecki PI, and VA Career Development Award A7489W David Morgenroth PI), the DoD-VA Extremity Trauma & Amputation Center of Excellence (Public Law 110-417, National Defense Authorization Act 2009, Section 723), the Military Amputee Research Program (MARF) and the Telemedicine and Advanced Technology Research Center (TATRC) (Prime Award No W81XWH-06-2-0073 to Charles Scoville). The contents of this article do not represent the views of the US Department of Veterans Affairs or the United States Government.

Conflict of Interests Statement: None of the authors have any conflicts of interest related to this work.

Keywords: Amputee; Prosthetics; Gait

Abstract word count: 249

Manuscript word count: 4000

Download English Version:

<https://daneshyari.com/en/article/8797764>

Download Persian Version:

<https://daneshyari.com/article/8797764>

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