

Influence of patellar position on the knee extensor mechanism in normal and crouched walking

Rachel L. Lenhart, Scott C.E. Brandon, Colin R. Smith, Tom F. Novacheck, Michael H. Schwartz, Darryl G. Thelen



PII: S0021-9290(16)31231-3  
DOI: <http://dx.doi.org/10.1016/j.jbiomech.2016.11.052>  
Reference: BM8013

To appear in: *Journal of Biomechanics*

Cite this article as: Rachel L. Lenhart, Scott C.E. Brandon, Colin R. Smith, Tom F. Novacheck, Michael H. Schwartz and Darryl G. Thelen, Influence of patella position on the knee extensor mechanism in normal and crouched walking *Journal of Biomechanics*, <http://dx.doi.org/10.1016/j.jbiomech.2016.11.052>

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 galley proof before it is published in its final citable 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.

# INFLUENCE OF PATELLAR POSITION ON THE KNEE EXTENSOR MECHANISM IN NORMAL AND CROUCHED WALKING

Rachel L. Lenhart<sup>a</sup>, Scott C. E. Brandon<sup>b</sup>, Colin R. Smith<sup>b</sup>, Tom F. Novacheck<sup>c,d</sup>, Michael H. Schwartz<sup>c,d</sup>,

Darryl G. Thelen<sup>a,b,e,\*</sup>

<sup>a</sup> Department of Biomedical Engineering, University of Wisconsin-Madison, USA

<sup>b</sup> Department of Mechanical Engineering, University of Wisconsin-Madison, USA

<sup>c</sup> Gillette Children's Specialty Healthcare, USA

<sup>d</sup> University of Minnesota – Twin Cities, Department of Orthopaedic Surgery, USA

<sup>e</sup> Department of Orthopedics and Rehabilitation, University of Wisconsin-Madison, USA

\* Corresponding Author

dgthelen@wisc.edu

+1 608-262-1902

**Keywords:** Cerebral Palsy; Patella Position; Patella Alta; Patella Baja; Knee Extensor; Moment Arm

**Abstract:** 276 words

**Manuscript:** 3285 words

Download English Version:

<https://daneshyari.com/en/article/5032068>

Download Persian Version:

<https://daneshyari.com/article/5032068>

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