Accepted Manuscript

The influence of pelvic rotation on clinical measurements of hip flexion and extension range of motion across sex and age

George J. Beneck, David M. Selkowitz, Dani Skeie Janzen, Erin Malecha, Brandi Ramirez Tiemeyer

PII: S1466-853X(17)30335-8

DOI: 10.1016/j.ptsp.2017.07.005

Reference: YPTSP 826

To appear in: Physical Therapy in Sport

Received Date: 25 March 2016
Revised Date: 15 April 2017
Accepted Date: 30 July 2017

Please cite this article as: Beneck, G.J., Selkowitz, D.M., Janzen, D.S., Malecha, E., Tiemeyer, B.R., The influence of pelvic rotation on clinical measurements of hip flexion and extension range of motion across sex and age, *Physical Therapy in Sports* (2017), doi: 10.1016/j.ptsp.2017.07.005.

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

The influence of pelvic rotation on clinical measurements of hip flexion and extension range of motion across sex and age

George J. Beneck, PT, PhD, OCS, KEMG¹

David M. Selkowitz, PT, PhD, OCS, DAAPM²

Dani Skeie Janzen, MPT³

Erin Malecha, MPT⁴

Brandi Ramirez Tiemeyer, MPT, ATC⁵

This study was approved by the Institutional Review Board of California State University, Long Beach.

Address correspondence to: George J Beneck, Department of Physical Therapy, ET 122

California State University, Long Beach, 1250 Bellflower Blvd, Long Beach, CA 90840.

Phone: (562) 985-1974.

Email: gbeneck@csulb.edu

¹ Associate Professor, Department of Physical Therapy, California State University at Long Beach, CA, USA; gbeneck@csulb.edu

² Associate Professor, Department of Physical Therapy, MGH Institute of Health Professions, Boston, MA, USA; <u>DSELKOWITZ@MGHIHP.EDU</u>

³ Department of Physical Therapy, California State University at Long Beach, CA, USA; danibanani@hotmail.com

⁴ Department of Physical Therapy, California State University at Long Beach, CA, USA; erinmalecha@yahoo.com

⁵ Department of Physical Therapy, California State University at Long Beach, CA, USA; brandiatcmpt@gmail.com

Download English Version:

https://daneshyari.com/en/article/8596549

Download Persian Version:

https://daneshyari.com/article/8596549

<u>Daneshyari.com</u>