

Accepted Manuscript

The influence of adipose tissue location on postural control

Joanna Cieślińska-Świder, Mariusz Paweł Furmanek, Janusz Wiesław Błaszczyk

PII: S0021-9290(17)30327-5
DOI: <http://dx.doi.org/10.1016/j.jbiomech.2017.06.027>
Reference: BM 8266

To appear in: *Journal of Biomechanics*

Accepted Date: 16 June 2017



Please cite this article as: J. Cieślińska-Świder, M.P. Furmanek, J.W. Błaszczyk, The influence of adipose tissue location on postural control, *Journal of Biomechanics* (2017), doi: <http://dx.doi.org/10.1016/j.jbiomech.2017.06.027>

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.

The influence of adipose tissue location on postural control

Joanna Cieślińska-Świder¹, Mariusz Paweł Furmanek², Janusz Wiesław Błaszczyk^{2,3}

¹ The Jerzy Kukuczka Academy of Physical Education, Department of Physiotherapy of the Nervous System and the Musculoskeletal System, Katowice, Poland.

² The Jerzy Kukuczka Academy of Physical Education, Department of Human Motor Behavior, Katowice Poland.

³ Department of Neurophysiology, Nencki Institute of Experimental Biology, Polish Academy of Science, Warsaw, Poland.

Corresponding author:

Joanna Cieślińska-Świder, PhD, PT

The Jerzy Kukuczka Academy of Physical Education

Department of Physiotherapy of the Nervous System and the Musculoskeletal System, Mikołowska 72B, 40-065 Katowice, Poland.

Phone: +48 32 207 53 01

E_mail: j.cieslinska-swider@awf.katowice.pl

ABSTRACT

A growing body of evidence suggests, that excessive body weight is inseparably connected with postural instability. In none of previous studies, body weight distribution has been considered as a factor, which may affect results of a static posturography. The purpose of the present study is to quantify some center of foot pressure (COP) characteristics in 40 obese women with android type of obesity (waist-to-hip ratio - WHR ≥ 0.85 , BMI: 37.5 ± 5.4) and 40 obese women with gynoid type of obesity (WHR < 0.85 , BMI: 36.9 ± 5.1). Variables of postural sway were acquired while subjects were standing quietly on a force plate with eyes open and closed. Both in the sagittal and frontal plane sway range, average velocity, and maximal velocity of COP

Download English Version:

<https://daneshyari.com/en/article/5031967>

Download Persian Version:

<https://daneshyari.com/article/5031967>

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