

Accepted Manuscript

PAIN CATASTROPHIZING MODERATES CHANGES IN SPINAL CONTROL IN RESPONSE TO NOXIOUSLY INDUCED LOW BACK PAIN

Gwyneth B. Ross, Peter J. Sheahan, Brian Mahoney, Brendon J. Gurd, Paul W. Hodges, Ryan B. Graham

PII: S0021-9290(17)30209-9

DOI: <http://dx.doi.org/10.1016/j.jbiomech.2017.04.010>

Reference: BM 8191

To appear in: *Journal of Biomechanics*

Accepted Date: 10 April 2017



Please cite this article as: G.B. Ross, P.J. Sheahan, B. Mahoney, B.J. Gurd, P.W. Hodges, R.B. Graham, PAIN CATASTROPHIZING MODERATES CHANGES IN SPINAL CONTROL IN RESPONSE TO NOXIOUSLY INDUCED LOW BACK PAIN, *Journal of Biomechanics* (2017), doi: <http://dx.doi.org/10.1016/j.jbiomech.2017.04.010>

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.

1 **PAIN CATASTROPHIZING MODERATES CHANGES IN SPINAL CONTROL IN**
2 **RESPONSE TO NOXIOUSLY INDUCED LOW BACK PAIN**

3
4 ***Original Article***

5
6 Gwyneth B. Ross^{1,2}, Peter J. Sheahan², Brian Mahoney³, Brendon J. Gurd², Paul W. Hodges⁴,
7 and Ryan B. Graham^{1,2*}

8 ¹School of Human Kinetics, Faculty of Health Sciences, University of Ottawa, Ottawa, Ontario,
9 Canada

10
11 ²School of Kinesiology and Health Studies, Faculty of Arts & Science, Queen's University,
12 Kingston, Ontario, Canada

13
14 ³School of Medicine, Faculty of Health Sciences, Queen's University, Kingston, Ontario, Canada

15
16 ⁴School of Health and Rehabilitation Sciences, Faculty of Health and Behavioural Sciences, The
17 University of Queensland, Brisbane, Queensland, Australia

18
19 Submitted to: Journal of Biomechanics

20 March 23rd, 2017

21 **Keywords:** *biomechanics, Lyapunov exponents, psychosocial, kinematics, local dynamic stability*

22
23 * Corresponding Author:

24 Ryan B. Graham, PhD
25 Assistant Professor
26 School of Human Kinetics
27 Faculty of Health Sciences
28 University of Ottawa
29 125 University Private
30 Ottawa, ON K1N 6N5
31 E-mail: rgraham@uottawa.ca
32 Phone: +1 613 562 5800 x 1025
33 Fax: +1 613 562 5497

Download English Version:

<https://daneshyari.com/en/article/5032021>

Download Persian Version:

<https://daneshyari.com/article/5032021>

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