#### Accepted Manuscript

Title: Cervical and thoracic intervertebral disc hydration increases with recumbency. a study in 101 healthy volunteers

Author: Daniel L. Belavy, Matthew Quittner, Yuan Ling, David Connell, Timo Rantalainen

PII: S1529-9430(17)30268-1

DOI: http://dx.doi.org/doi: 10.1016/j.spinee.2017.06.006

Reference: SPINEE 57346

To appear in: The Spine Journal

Received date: 13-2-2017 Revised date: 22-5-2017 Accepted date: 7-6-2017



Please cite this article as: Daniel L. Belavy, Matthew Quittner, Yuan Ling, David Connell, Timo Rantalainen, Cervical and thoracic intervertebral disc hydration increases with recumbency. a study in 101 healthy volunteers, *The Spine Journal* (2017), http://dx.doi.org/doi: 10.1016/j.spinee.2017.06.006.

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**

## Cervical and thoracic intervertebral disc hydration increases

1

2

### with recumbency. A study in 101 healthy volunteers.

3	Running Title: Cervical disc expansion in lying
4	
5	Daniel L. Belavy <sup>1</sup> BPhty PhD
6	Matthew Quittner <sup>1</sup> BBiomedSc BEx&SS(Hons)
7	Yuan Ling <sup>2</sup> MBBS FRANZCR
8	David Connell <sup>2,3</sup> MBBS MMed FRANZCR FFSEM (UK)
9	Timo Rantalainen <sup>1</sup> MSc Docent PhD
10	
11	<sup>1</sup> Institute for Physical Activity and Nutrition, School of Exercise and Nutrition Sciences, Deakin
12	University, 221 Burwood Highway, Burwood, Victoria, 3125, Australia
13	<sup>2</sup> Imaging at Olympic Park, 60 Olympic Boulevard, Melbourne, Victoria, 3004, Australia
14	<sup>3</sup> Monash University, Wellington Road, Clayton, Victoria, 3168, Australia
15	
16	Corresponding Author: Daniel L. Belavy B.Phty, PhD; Institute for Physical Activity and
17	Nutrition, School of Exercise and Nutrition Sciences, Deakin University, 221 Burwood Highway,
18	Burwood, Victoria, 3125, Australia. Tel: +61 3 9244 6606; Fax: +61 3 9244 6017; E-mail:
19	belavy@gmail.com
20	Email addresses: belavy@gmail.com; matthew.quittner@gmail.com; y.ling@iop.net.au;
21	d.connell@iop.net.au; t.rantalainen@deakin.edu.au
22	Acknowledgements: We thank the subjects for participating in the study. We also thank the staff at
23	Imaging at Olympic Park and Dr. Nicola Ridgers for their support in implementing the study.
24	Funding: This project was supported by internal institutional funding from Deakin University (to
25	Belavy).

# دريافت فورى ب

# ISIArticles مرجع مقالات تخصصی ایران

- ✔ امكان دانلود نسخه تمام متن مقالات انگليسي
  - ✓ امكان دانلود نسخه ترجمه شده مقالات
    - ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
  - ✓ امكان دانلود رايگان ۲ صفحه اول هر مقاله
  - ✔ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
    - ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات