

Accepted Manuscript

Psychological features and their relationship to movement-based subgroups in people living with low back pain

Nicholas V. Karayannis, Gwendolen A. Jull, Michael K. Nicholas, Paul W. Hodges



PII: S0003-9993(17)31250-9

DOI: [10.1016/j.apmr.2017.08.493](https://doi.org/10.1016/j.apmr.2017.08.493)

Reference: YAPMR 57037

To appear in: *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*

Received Date: 24 August 2017

Accepted Date: 25 August 2017

Please cite this article as: Karayannis NV, Jull GA, Nicholas MK, Hodges PW, Psychological features and their relationship to movement-based subgroups in people living with low back pain, *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION* (2017), doi: 10.1016/j.apmr.2017.08.493.

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.

Psychological features and their relationship to movement-based subgroups in people living with low back pain

Nicholas V. Karayannis,^{1,2} Gwendolen A. Jull,¹ Michael K. Nicholas³ Paul W Hodges¹.

¹NHMRC Centre of Clinical Research Excellence in Spinal Pain, Injury and Health, School of Health and Rehabilitation Sciences, The University of Queensland, Brisbane Qld Australia,

²Stanford University School of Medicine, Dept of Anesthesiology, Perioperative and Pain Medicine, Palo Alto, CA USA; ³Northern Clinical School Kolling Institute of Medical Research, Royal North Shore Hospital, The University of Sydney, Sydney, NSW Australia

Address for Correspondence

Dr. Nicholas Karayannis

Stanford University, School of Medicine, Department of Anesthesiology, Perioperative and Pain Medicine, Division of Pain Medicine

Palo Alto, CA 94304 USA

E-mails: nvkaray@stanford.edu, g.jull@uq.edu.au, miken@med.usyd.edu.au, p.hodges@uq.edu.au

Acknowledgements

This study was supported by funding from the National Health and Medical Research Council (NHMRC) of Australia (CCRE Grant: ID455863; Senior Research Fellowship (PH): APP1002190

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان 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