

## Accepted Manuscript

Title: Abnormal loading and functional deficits are present in both limbs before and after unilateral knee arthroplasty

Authors: A.J. Metcalfe, C.J. Stewart, N.J. Postans, P.R. Biggs, G.M. Whatling, C.A. Holt, A.P. Roberts



PII: S0966-6362(17)30120-0  
DOI: <http://dx.doi.org/doi:10.1016/j.gaitpost.2017.04.008>  
Reference: GAIPOS 5381

To appear in: *Gait & Posture*

Received date: 18-2-2016  
Revised date: 23-1-2017  
Accepted date: 3-4-2017

Please cite this article as: Metcalfe AJ, Stewart CJ, Postans NJ, Biggs PR, Whatling GM, Holt CA, Roberts A.P. Abnormal loading and functional deficits are present in both limbs before and after unilateral knee arthroplasty. *Gait and Posture* <http://dx.doi.org/10.1016/j.gaitpost.2017.04.008>

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.

# Abnormal loading and functional deficits are present in both limbs before and after unilateral knee arthroplasty

A.J.Metcalf<sup>\*3</sup>

C.J.Stewart<sup>1,4</sup>

N.J.Postans<sup>1</sup>

P.R.Biggs<sup>2</sup>

G.M.Whatling<sup>2</sup>

C.A.Holt<sup>2</sup>

A.P.Roberts<sup>1</sup>

1) The Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, United Kingdom.

2) The Arthritis Research UK Biomechanics and Bioengineering Centre, Cardiff School of Engineering, Cardiff University, United Kingdom.

3) Warwick Medical School, The University of Warwick, United Kingdom.

4) The Institute for Science and Technology in Medicine, Keele University, United Kingdom.

\*corresponding author. E-mail: [a.metcalf@warwick.ac.uk](mailto:a.metcalf@warwick.ac.uk) Tel +44 7809564440

Submission as an Original Article to Gait and Posture

## Highlights

Joint loading and function was assessed bilaterally in unilateral knee OA.

Gait data can be summarised using a functional classification approach.

Gait abnormalities in knee OA and following arthroplasty are relatively symmetrical.

Joint loading and function frequently remains abnormal following arthroplasty.

Pre-operative function (the Cardiff Classifier) can predict post-operative function.

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

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