

## Reply to Selfe (2014) letter to the editor on: Measurement properties of patient-reported outcome measures (PROMS) in patellofemoral pain syndrome

Green, Andrew; Liles, Clive; Rushton, Alison; Kyte, Derek G.

DOI:

[10.1016/j.math.2014.10.018](https://doi.org/10.1016/j.math.2014.10.018)

License:

Other (please specify with Rights Statement)

*Document Version*

Peer reviewed version

*Citation for published version (Harvard):*

Green, A, Liles, C, Rushton, A & Kyte, DG 2014, 'Reply to Selfe (2014) letter to the editor on: Measurement properties of patient-reported outcome measures (PROMS) in patellofemoral pain syndrome: A systematic review', *Manual Therapy*. <https://doi.org/10.1016/j.math.2014.10.018>

[Link to publication on Research at Birmingham portal](#)

### **Publisher Rights Statement:**

NOTICE: this is the author's version of a work that was accepted for publication in *Manual Therapy*. Changes resulting from the publishing process, such as peer review, editing, corrections, structural formatting, and other quality control mechanisms may not be reflected in this document. Changes may have been made to this work since it was submitted for publication. A definitive version was subsequently published in *Manual Therapy*, DOI: [10.1016/j.math.2014.10.018](https://doi.org/10.1016/j.math.2014.10.018).

Eligibility for repository checked March 2015

### **General rights**

Unless a licence is specified above, all rights (including copyright and moral rights) in this document are retained by the authors and/or the copyright holders. The express permission of the copyright holder must be obtained for any use of this material other than for purposes permitted by law.

- Users may freely distribute the URL that is used to identify this publication.
- Users may download and/or print one copy of the publication from the University of Birmingham research portal for the purpose of private study or non-commercial research.
- User may use extracts from the document in line with the concept of 'fair dealing' under the Copyright, Designs and Patents Act 1988 (?)
- Users may not further distribute the material nor use it for the purposes of commercial gain.

Where a licence is displayed above, please note the terms and conditions of the licence govern your use of this document.

When citing, please reference the published version.

### **Take down policy**

While the University of Birmingham exercises care and attention in making items available there are rare occasions when an item has been uploaded in error or has been deemed to be commercially or otherwise sensitive.

If you believe that this is the case for this document, please contact [UBIRA@lists.bham.ac.uk](mailto:UBIRA@lists.bham.ac.uk) providing details and we will remove access to the work immediately and investigate.

# Accepted Manuscript

Reply to Selfe (2014) letter to the editor on: Measurement properties of patient-reported outcome measures (PROMS) in patellofemoral pain syndrome: A systematic review

Andrew Green , MSc MCSP MMACP, Clinical Specialist Physiotherapist, Clive Liles , MA MCSP, Lecturer in Physiotherapy, Dr Alison Rushton , EdD, MSc, FMACP, Senior Lecturer in Physiotherapy, Derek G. Kyte , MSc MCSP MMACP, Physiotherapy Teaching Associate

PII: S1356-689X(14)00219-7

DOI: [10.1016/j.math.2014.10.018](https://doi.org/10.1016/j.math.2014.10.018)

Reference: YMATH 1642

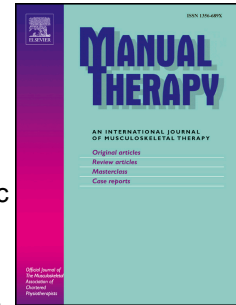
To appear in: *Manual Therapy*

Received Date: 23 October 2014

Accepted Date: 28 October 2014

Please cite this article as: Green A, Liles C, Rushton A, Kyte DG, Reply to Selfe (2014) letter to the editor on: Measurement properties of patient-reported outcome measures (PROMS) in patellofemoral pain syndrome: A systematic review, *Manual Therapy* (2014), doi: 10.1016/j.math.2014.10.018.

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 Title

2 Reply to Selfe (2014) Letter to the Editor on: Measurement properties of patient-  
3 reported outcome measures (PROMS) in Patellofemoral Pain Syndrome: A  
4 systematic review.

5

6 Authorship

7 Andrew Green<sup>a,\*</sup>, MSc MCSP MMAPCP, Clinical Specialist Physiotherapist.

8 Clive Liles<sup>b</sup>, MA MCSP, Lecturer in Physiotherapy

9 Dr Alison Rushton<sup>b</sup>, EdD, MSc, FMACP, Senior Lecturer in Physiotherapy

10 Derek G. Kyte<sup>b</sup>, MSc MCSP MMAPCP, Physiotherapy Teaching Associate

11

12 **Affiliations**

13 <sup>a</sup>The New Queen Elizabeth Hospital Birmingham, Mindelsohn Way, Edgbaston,  
14 Birmingham, B15 2GW.

15 <sup>b</sup>School of Sport, Exercise and Rehabilitation Sciences, College of Life and  
16 Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, B15  
17 2TT, UK.

18

19 Corresponding author

20 Andrew Green

21 Email: Andrew.Green@uhb.nhs.uk

22

We welcome the letter from Professor James Selfe and thank him for drawing our attention to these issues.

1: We acknowledge the incorrect use of the term 'Modified Functional Index Questionnaire (MFIQ)' in the paper. We agree the term 'Functional Index Questionnaire (FIQ)' should have been used in its place. This error has now been corrected.

2: The inclusion criteria for our review were: "studies had to include participants that presented with a main complaint of patellofemoral pain (defined as anterior peripatellar or retro- patellar knee pain) with symptoms that were provoked by at least two of the following: prolonged sitting or kneeling, stair walking, running, squatting, hopping, a positive Clarke's sign or grind test, a positive patellar compression test and recognisable painful symptoms on palpation of the patellar facets". These criteria have been employed by several low risk of bias randomised controlled trials (Collins et al., 2008; van Linschoten et al., 2009; Collins et al., 2010).

The two studies from by Professor Selfe (Selfe et al. 2001a and b) were excluded from our review as they did not fulfil the eligibility criteria detailed above. Specifically, they included patellofemoral pain patients based on the presence of "pain in the lower limb originating from the patellofemoral joint" (Selfe et al 2001a, p.508), but with no further criteria used to determine diagnosis.

The two further studies highlighted by Professor Selfe (Nijs et al. 2006; Negahban et al. 2013) were also excluded from our review. The abstract for Nijs et al. (2006) focused on the diagnostic validity of five clinical PFPS tests without reference to their examination of the measurement properties of a Dutch version of the MFIQ (MFIQ-DV), and this article was therefore excluded at the title/abstract screening phase. The Negahban et al. (2013) paper was not eligible for inclusion as it was published after our search to August 2013.

We have retrospectively analysed the Nijs et al (2006) article to examine whether their results would impact upon our conclusions. Whilst the paper did not mention the analysis of the MFIQ-DV within the abstract, the paper was published within the timeframe of our search and has subsequently been brought to our attention.

Nijs et al. (2006) reported an 'acceptable' level (Reeve et al., 2013) of internal consistency results (Cronbach's  $\alpha = 0.71$ ) and there was a moderate correlation for the MFIQ-DV with pain on movement ( $\rho = 0.42$ ) but not for pain at rest or at night ( $\rho = -0.21$  &  $-0.08$  respectively). Unfortunately, both these measurement properties were investigated using poor methodological quality. Thus, in accordance with the COSMIN assessment criteria presented in our paper, the quality of MFIQ measurement properties remains 'unknown' due to poor methodological quality.

These results do not alter the overall conclusions presented in our paper, namely, (1) that no PFPS instrument possesses supporting evidence for all important measurement properties; and (2) the measurement properties of existing PFPS PROMs should be subjected to further scrutiny, using greater methodological quality.

Yours sincerely

**References**

- Collins N, Crossley K, Beller E, Darnell R, McPoil T, Vicenzino B. Foot orthoses and physiotherapy in the treatment of patellofemoral pain syndrome: randomised clinical trial *British Medical Journal* 2008;337(7677):1735-43.
- Collins NJ, Crossley KM, Darnell R, Vicenzino B. Predictors of short and long term outcome in patellofemoral pain syndrome: a prospective longitudinal study. *BMC Musculoskeletal Disorders* 2010;11:11.
- Negahban H, Pouretzad M, Sohani SM, Mazaheri M, Salavati M, Mohammadi F. Validation of the Persian version of Functional Index Questionnaire (FIQ) and Modified FIQ in patients with patellofemoral pain syndrome. *Physiotherapy Theory and Practice* 2013;29(7):521-30.
- Nijs J, Van Geel C, Van der auwera C, Van de Velde B. Diagnostic value of five clinical tests in patellofemoral pain syndrome. *Manual Therapy* 2006;11(1):69-77.
- Reeve BB, Wyrwich KW, Wu AW, Velikova G, Terwee CB, Snyder CF, et al. ISOQOL recommends minimum standards for patient-reported outcome measures used in patient-centered outcomes and comparative effectiveness research. *Qual Life Res* 2013;22(8):1889-905.
- van Linschoten R, van Middelkoop M, Berger MY, Heintjes EM, Verhaar JA, Willemssen SP, et al. Supervised exercise therapy versus usual care for patellofemoral pain syndrome: an open label randomised controlled trial. *British Medical Journal* 2009;339:b4074.