



Is it time to replace publish or perish with get visible or vanish?

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Sport and Exercise Medicine Research Centre





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Disclosures



Teach courses related to running and knee injury management I was dragged kicking and screaming to social media

Not-for-profit initiatives knowledge translation initiatives

- GLA:D[®] Australia
- TREK (Translating Research Evidence and Knowledge)





Associate Editor, Deputy Editor for Social Media





1. Why did I get pulled to care about this area?

2. The looming cliff for academic journals?

3. Embracing digital and social media innovation

4. Can digital and social media to facilitate research impact?



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The 'Best Practice Guide to Conservative Management of Patellofemoral Pain': incorporating level 1 evidence with expert clinical reasoning

Christian John Barton,^{1,2,3,4} Simon Lack,¹ Steph Hemmings,¹ Saad Tufail,¹ Dylan Morrissey^{1,5}









The 'Best Practice Guide to Conservative Management of Patellofemoral Pain': incorporating level 1 evidence with expert clinical reasoning

Christian John Barton, ^{1,2,3,4} Simon Lack, ¹ Steph Hemmings, ¹ Saad Tufail, ¹ Dylan Morrissey^{1,5}

- Tailored multimodal intervention
- Hip and knee exercise
- Patellar taping and foot orthoses considered
- Emphasis on education and activity modification (no evidence)

"We provide a 'Best Practice Guide to Conservative Management of Patellofemoral Pain' outlining key considerations."















Original article

The 'Best Practice Guide to Conservative Management of Patellofemoral Pain': incorporating level 1 evidence with expert clinical reasoning

Christian John Barton, $^{\rm 1,2,3,4}$ Simon Lack, $^{\rm 1}$ Steph Hemmings, $^{\rm 1}$ Saad Tufail, $^{\rm 1}$ Dylan Morrissey $^{\rm 1,5}$











Contents lists available at ScienceDirect

Osteoarthritis and Cartilage Open

na Cartilage Open nals/osteoarthritis-and-cartilage-open/2665-9131



Barriers and enablers to uptake of a contemporary guideline-based management program for hip and knee osteoarthritis: A qualitative study

Jason A. Wallis ^{a,b,c,*}, Ilana N. Ackerman ^c, Natasha K. Brusco ^{a,d}, Joanne L. Kemp ^e, James Sherwood ^a, Kirby Young ^a, Sophie Jennings ^a, Adrian Trivett ^f, Christian J. Barton ^{e,g}

"I've been told that I've got bone on bone and I do need a new knee."

"I mean if the x-ray is really bad and showing bone-on-bone, I don't think physio is going to be able to do very much except keep the muscle strong and then joint replacement has be considered." – GP





LA TROBE



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"There are lots of things that I need at the moment. Yes financial considerations do matter."

"Parking around any hospital, not just [Hospital], is a nightmare"

""Well, the main thing will be cost for a lot of patients." - surgeon



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Individual (knowledge, attitude, skills)

Public Policy

Some context



Special Report

For reprint orders, please contact: reprints@futuremedicine.com





Some context



The direct-to-consumer market for stem cell-based interventions in Australia: exploring the experiences of patients

Catherine Waldby^{*,1}, Tereza Hendl², Ian Kerridge³, Wendy Lipworth³, Tamra Lysaght⁴, Megan Munsie^{5,6} & Cameron Stewart⁷

"They seem to be able to rebuild or recreate something you've lost."

"There's no down time. You don't have to spend time in hospital, you don't have to have physiotherapy because you've had a knee replacement. You just go in, you have the injection, then you get up and you walk out, and you just get on with it."



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Current journal model

DANGER

SAFE1

Research completion

Develop question are design
Complete r or revis
Are a second secon

, publication

- Vrite manuscript
- Submit to journal
- Peer review
- Address concerns
- Finalise paper and sign over copyright



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45% created to advertise products of services 22% recommended knee surgery









COMMENT

The Kardashian index: a measure of discrepant social media profile for scientists

Neil Hall



<u>**High K-index**</u> = researcher may have built their public profile on shaky foundations

Low K-index = scientist is being undervalued





$$K\text{-index} = \frac{F_{(a)}}{F_{(c)}}$$

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We wrote a paper





Education reviews

It is time to replace publish or perish with get visible or vanish: opportunities where digital and social media can reshape knowledge translation

Christian J Barton,¹ Mark A Merolli^{2,3}

Opportunities

- 1. Embrace social media
- 2. Embrace different written formats
- 3. Podcasts
- 4. Visual engagaing summaries (e.g. infographics)
- 5. Video



PROCESS TO IMPROVE KNOWLEDGE TRANSLATION



NOVEL STEP 3 AND 4



Designed by Cfisioterapianet

Barton CJ and Merolli MA, BJSM 2017

THE CONFLICT



Document & citation trends



Analyze author output

Citation overview



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CLINICAL PRACTICE GUIDELINES

RICHARD W. WILLY, PT, PhD • LISA T. HOGLUND, PT, PhD • CHRISTIAN J. BARTON, PT, PhD LORI A. BOLGLA, PT, PhD • DAVID A. SCALZITTI, PT, PhD • DAVID S. LOGERSTEDT, PT, PhD ANDREW D. LYNCH, PT, PhD • LYNN SNYDER-MACKLER, PT, ScD, FAPTA • CHRISTINE M. MCDONOUGH, PT, PhD

Patellofemoral Pain

Clinical Practice Guidelines Linked to the I Classification of Functioning, Disability o From the Academy of Orthopaedic Physic of the American Physical Therapy Ass

J Orthop Sports Phys Ther. 2019;49(9):CPG1-CPG95. doi:10.2519/jospt.201

03 ^{09/2019} New guidelines for Runner's Knee

in Share



Active rather than passive treatments are the key to recovering from "Runner's Knee", according to new international treatment guidelines co-authored by La Trobe University physiotherapy researcher Dr Christian Barton.

Patellofemoral Pain

Often known as "kneecap pain" or "runners knee'





Prevention of kneecap pain is challenging, based on the Clinical Practice Guidelines by the Academy of Orthopaedic Physical Therapy*, here are some suggestions:

- · Gradually increase the amount of activity you are doing.
- Do a variety of activities; adolescents who specialize in a single sport have greater risk of kneecap pain.
- Maximizing knee strength may reduce the risk of developing kneecap pain.
- Age, height, weight, and leg posture are not risk factors in developing kneecap pain.

How can a physical therapist work with you and your kneecap pain?

- Hip and knee exercises are the best thing for people with kneecap pain.
- Knee taping or inexpensive shoe inserts can be helpful, but should be combined with an exercise program.
- There are no quick fixes: Exercise is the best treatment option over other options.
- Improving the way a person runs, jumps, or adjusting a training routine often helps reduce kneecap pain.



*This infographic is based on the guideline by Willy et al titled "Pallofemoral Pain" (*J Orthop Sports Phys Ther.* 2019;49(9):CPG1-CPG95. doi:10.2519/jospt.2019.0302)

Dr. Christian Barton, Senior Post-Doctoral Researcher, La Trobe University's Sport and Exercise Medicine Research Centre, Australia; Dr. Richard Willy, Assistant Professor, School of Physical Therapy and Rehabilitation Sciences, University of Montana

The information provided in this graphic is for informational purposes and not a substitution for seeking proper health care to diagnose and treat this condition. Please consult a physical therapist or other health care provider specializing in musculoskeletal disorders for more information on managing this condition.



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Review



The relationships between golf and health: a scoping review

A D Murray, ^{1,2} L Daines, ³ D Archibald, ⁴ R A Hawkes, ^{5,6} C Schiphorst, ¹ P Kelly, ¹ L Grant, ^{3,7} N Mutrie¹

Infographics

Infographics and digital resources: an international consensus on golf and health

Andrew D Murray, ^{1,2} Christian J Barton, ^{3,4} Daryll Archibald, ^{5,6} Danny Glover, ⁷ Iain Robert Murray, ^{8,9} Kevin Barker, ¹⁰ Roger A Hawkes^{11,12}

"Golf can provide moderate intensity physical activity and is associated with physical health benefits."









PLAYING GOLF CAN MAKE Y HEALTHIER & HAPPIER

Golf & Health- key actions for policy/decision makers

WHAT CAN THE GOLF //FACILITIES DO TO MAXIMISE EALTH BENEFITS OF GOLF?





TRADITIONAL STEP 1 AND 2



NOVEL STEP 3 AND 4



Designed by Cfisioterapianet

Barton CJ and Merolli MA, BJSM 2017

Infographics and digital resources: an international consensus on golf and health

Andrew D Murray, ^{1,2} Christian J Barton, ^{3,4} Daryll Archibald, ^{5,6} Danny Glover, ⁷ Iain Robert Murray, ^{8,9} Kevin Barker, ¹⁰ Roger A Hawkes^{11,12}

- Twitter, Facebook, Instagram, and blogs
- Email, Press release distribution
- Direct communications targeting relevant stakeholders

Statistics from Altmetric.com



Picked up by **87** news outlets Blogged by **1** Tweeted by **868** On **28** Facebook pages Mentioned in **3** Google+ posts On **1** videos

Infographics

131 readers on Mendeley**2** readers on CiteULike

UNIVERSITY



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This is the 'go to' site for the general public, clinicians and academics with the most up to date evidence and insight from the centre's international expert team. Make sure you sign up to stay up to date with new information, alongside upcoming events and research studies which may interest you.

Important: This site should never replace real world consultation. If you have an injury or health condition you should seek appropriate assessment, advice and treatment from a gualified health professional

BARRIERS TO KNOWLEDGE









Our Centre













Early OA In The Athlete Symposium



Sport and Exercise Medicine **Research** Centre

Controlled Media





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"I don't see myself having to need knee surgery for a very long time. I don't think I would have ever needed surgery in the first place if it could have been managed prior with a proper exercise regime"

Search our blog





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Q

'I lived on pretty much any pain medication I could get my hands on'

SPORT

CYCLING

FOOTBALL

MOVIES

FOOD



Recommended

13 JUL 2018 - 3:02AM Quiz: facts and myths on mental illness

12 JUL 2018 - 1:46PM What does it take to be a survivor?

12 JUL 2018 - 1:49PM Women in prison: histories of trauma and abuse highlight the need for specialised care

12 JUL 2018 - 6:26PM In Baby Teeth, Links Between Chemical Exposure in Pregnancy and Autism

11 JUL 2018 - 1:41PM 'You are not alone': Lifeline seeks to reach out to Chinese community

12 JUL 2018 - 3:04PM Attention!

Browse by



By the time he was 31, Rhys has had 11 knee surgeries. He explains how he went from severe depression due to the extreme pain, to hiking the Inca Trail.



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MYTH BUSTED: Exercise isn't harmful for people with knee osteoarthritis

ON DEMAND

GUIDE



Advice to rest and avoid pain is commonly provided to people with knee and other joint pains - advice that is often wrong, and harmful.

Recommended

11 JUL 2018 - 11:19PM First footage of Thai boys after traumatic cave ordeal

13 JUL 2018 - 7:19AM New 'exercise pill' could be a game changer in fight against obesity

13 JUL 2018 - 8:33AM High carb diet worse than high fat: study

12 JUL 2018 - 1:46PM What does it take to be a survivor?

12 JUL 2018 - 6:26PM In Baby Teeth, Links **Between Chemical Exposure in Pregnancy** and Autism

12 JUL 2018 - 3:04PM Attention!

Browse by



TAKE HOMES

Patellofemoral pain: www.patellofemoral.trekeducation.org www.mykneecap.trekeducation.org



1. We are inherently poor at communicating research – incentives?

2. <u>ALL</u> need to embrace digital innovation

3. Multimedia/online resources are powerful

4. Knowledge translation is not simple



Individual (knowledge, attitude, skills)



