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1

Name of Journal: *World Journal of Orthopedics*

ESPS Manuscript NO: 27811

Manuscript Type: Original Article

*Observational Study*

**Abnormal ground reaction forces lead to a general decline in gait speed in knee osteoarthritis patients**

Anatole Vilhelm Wiik, Adeel Aqil, Mads Brevadt, Gareth Jones, Justin Cobb

**Abstract**

*AIM*

To analyse ground reaction forces at higher speeds using another method to be more



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## Google 学术: Abnormal ground reaction forces lead to a general decline in gait speed in knee osteoarthritis patients

... ground reaction forces: objective measures of gait ... - McCrory - 被引用次数: 157

... knee osteoarthritis: a result of altered walking speed? - Zeni - 被引用次数: 157

... in patients with medial compartment knee osteoarthritis - Lewek - 被引用次数: 245

## Balance and gait adaptations in patients with early knee osteoarthritis

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: LD Duffell - 2014 - 被引用次数: 17 - 相关文章

Gait adaptations in people with severe knee osteoarthritis (OA) have been well ... may be the result of morphological changes in the joint, rather than the cause. ... speeds, reduced knee flexion during weight acceptance and reduced overall ... It is thought that an increased ground reaction force (GRF), combined with an ...

## The Pathophysiology of Osteoarthritis: A Mechanical Perspective on ...

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作者: KR Vincent - 2012 - 被引用次数: 36 - 相关文章

Correcting abnormalities of tibiofemoral rotation and/ or decreasing the Madd are ... Alterations in patterns of knee kinematics cause a shift from normal articular contact ... In patients with mild OA, medial compartment loading can distinguish ... Increasing gait speed increases the ground reaction force, and net joint forces ...

## [PDF] VERTICAL GROUND REACTION FORCE SHAPE IS ASSOCIATED ...

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作者: T Takahashi - 2004 - 被引用次数: 24 - 相关文章

the classification of vertical ground reaction forces correlates with gait ... Key words: knee pain, gait analysis, elderly females, ground reaction force, osteoarthritis. J Rehabil Med 2004; ... Go (TUG) test correlates with gait speed, balance and movement ... Patients were classified into 2 groups based on the

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### Balance and gait adaptations in patients with early knee osteoarthritis

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作者: LD Duffell - 2014 - 被引用次数: 24 - [相关文章](#)

Gait adaptations in people with severe **knee osteoarthritis** (OA) have been well ... may be the result of morphological changes in the joint, rather than the **cause**. ... **speeds**, reduced **knee** flexion during weight acceptance and reduced overall ... It is thought that an increased **ground reaction force** (GRF), combined with an ...

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作者: KR Vincent - 2012 - 被引用次数: 41 - [相关文章](#)

Correcting **abnormalities** of tibiofemoral rotation and/ or decreasing the Madd are ... Alterations in patterns of **knee** kinematics **cause** a shift from normal articular contact ... In **patients** with mild OA, medial compartment loading can distinguish ... Increasing **gait speed** increases the **ground reaction force**, and net joint forces ...

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作者: T Takahashi - 2004 - 被引用次数: 24 - [相关文章](#)

M-shaped vertical **ground reaction forces** with regard to timed up and ... Key words: **knee** pain, gait analysis, elderly females, ground reaction force, **osteoarthritis**. J Rehabil ... Go (TUG) test correlates with **gait speed**, balance and movement of the lower ... **Patients** were classified into 2 groups based on the VGRF: M-shaped.

### [PDF] Gait Analysis Using an Instrumented Treadmill

[https://spiral.imperial.ac.uk/bitstream/.../Wiik-AV-2016-MD\(Res\)-Thesis.pdf](https://spiral.imperial.ac.uk/bitstream/.../Wiik-AV-2016-MD(Res)-Thesis.pdf) - [翻译此页](#)

作者: AV Wiik - 2016

**ground reaction force** and spatiotemporal data was captured for both limbs ... reaction force and

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作者: KR Vincent - 2012 - 被引用次数: 42 - 相关文章

Osteoarthritis (OA) is the most frequent cause of disability in the United States, ... Correcting abnormalities of tibiofemoral rotation and/ or decreasing the Madd ... In patients with ACL tears, 60–90% of these knees develop OA within 15 years. ... Increasing gait speed increases the ground reaction force, and net joint forces ...

## Differences in gait parameters between healthy subjects and persons ...

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: JA Zeni Jr - 2009 - 被引用次数: 166 - 相关文章