

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 57375

Manuscript Type: EDITORIAL

Is dynesys dynamic stabilization system superior to posterior lumbar fusion in the treatment of lumbar degenerative diseases?

Bao-Gan Peng

Abstract

Dynesys, a pedicle-based dynamic stabilization system, was introduced to overcome some undesirable complications of fusion procedures. Nevertheless, the theoretical advantages of dynesys over fusion have not been clearly confirmed. The purpose of this editorial was to compare clinical and radiological outcomes of patients who underwent dynesys system with those who underwent posterior lumbar fusion according to the

Match Overview

1	Internet 49 words crawled on 17-Dec-2019 thejns.org	2%
2	Internet 27 words crawled on 26-Sep-2020 journals.sagepub.com	1%
3	Internet 17 words crawled on 06-Jul-2019 link.springer.com	1%
4	Crossref 16 words Annan Hu, Chi Sun, Yun Liang, Houlei Wang, Xilei Li, Jian Dong. "Multi-segmental lumbar spinal stenosis treated with Dynesys", <i>Spine</i> , 03/2007	1%
5	Internet 14 words crawled on 26-Sep-2020 journals.plos.org	1%
6	Crossref 13 words James Beastall. "The Dynesys Lumbar Spinal Stabilization System", <i>Spine</i> , 03/2007	1%
7	Internet 12 words crawled on 21-Aug-2020 www.researchsquare.com	<1%



国内版

国际版

Is Dynesys dynamic stabilization system superior to posterior l



ALL

IMAGES

VIDEOS

24,900 Results

Any time ▼

[Dynamic Neutralization Using the Dynesys System for ...

<https://pubmed.ncbi.nlm.nih.gov/20619111>

Dynamic stabilization using the Dynesys system versus posterior lumbar interbody fusion for the treatment of degenerative lumbar spinal disease: a clinical ...

Cited by: 9

Author: Jan Cienicala, Richard Chaloupka, Martin...

Publish Year: 2010

Dynamic stabilization using the Dynesys system versus ...

<https://thejns.org/focus/view/journals/neurosurg-focus/40/1/article-pE7.xml> ▼

Jan 01, 2016 · Dynamic stabilization using the Dynesys system versus posterior lumbar interbody fusion for the treatment of degenerative lumbar spinal disease: a clinical and radiological outcomes-based meta-analysis ... Spinal fusion has been the cornerstone of surgical treatment for degenerative spinal disease during the last 3 decades. 30 Fusion ...

Cited by: 11

Author: Chang-Hyun Lee, Tae-Ahn Jahng, Tae-Ah...

Publish Year: 2016

Long-Term Outcome of Dynesys Dynamic Stabilization for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6213831>

Nov 05, 2018 · INTRODUCTION. Decompression and spinal fusion are considered to be the gold standard for lumbar degenerative disease; however, the benefit of spinal fusion is associated with higher complications, such as significant instrumentation failure, infection, and accelerated degeneration of adjacent segments.[1,2,3] Dynamic stabilization is a potential alternative to rigid lumbar fusion for lumbar ...

Cited by: 1

Author: Yang Zhang, Zhi-Cheng Zhang, Fang Li, T...

Publish Year: 2018

Comparison of the Dynesys Dynamic Stabilization System ...

<https://europepmc.org/article/PMC/PMC4732666> ▼

Jan 29, 2016 · Many clinical studies performed over the past decade have reported positive outcomes in patients with lumbar degenerative disease treated with the Dynesys system [4, 5]. However, relatively few studies have compared clinical and radiographic outcomes between the Dynesys system and posterior lumbar interbody fusion (PLIF) [6].

Cited by: 11

Author: Yang Zhang, Jian-Lin Shan, Xiu-Mei Liu, F...

Is dynesys dynamic stabilization system superior to posterior lumbar



ALL

IMAGES

VIDEOS

45,500 Results

Any time ▼

Comparison of the Dynesys Dynamic Stabilization System ...

<https://europepmc.org/article/PMC/PMC4732666> ▼

Jan 29, 2016 · Many clinical studies performed over the past decade have reported positive outcomes in patients with **lumbar degenerative disease** treated with the **Dynesys system** [4, 5]. However, relatively few studies have compared clinical and radiographic outcomes between the **Dynesys system and posterior lumbar interbody fusion (PLIF)** [6].

Cited by: 12

Author: Yang Zhang, Jian-Lin Shan, Xiu-Mei Liu, ...

Publish Year: 2016

Dynamic stabilization using the Dynesys system versus ...

<https://thejns.org/focus/view/journals/neurosurg-focus/40/1/article-pE7.xml> ▼

Jan 01, 2016 · OBJECTIVE. The **Dynesys**, a **pedicle-based dynamic stabilization (PDS) system**, was introduced to overcome **the drawbacks of fusion procedures**. Nevertheless, the theoretical advantages of **PDS over fusion** have not been clearly confirmed.

Cited by: 11

Author: Chang-Hyun Lee, Tae-Ahn Jahng, Tae-A...

Publish Year: 2016

Dynamic stabilization using the Dynesys system versus ...

<https://www.researchgate.net/publication/288992073...>

Aug 23, 2020 · **Dynamic stabilization using the Dynesys system versus posterior lumbar interbody fusion** for the **treatment of degenerative lumbar spinal disease**: A ...

The Prevalence and Risk Factors of Low Back Pain in Rural ...

<https://www.researchgate.net/publication/224965702...>

This retrospective study included 72 patients (mean age 61.4 years) with one- or two-level **lumbar spinal**

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

54,200 Results

Any time ▾

[Comparison of the Dynesys Dynamic Stabilization System and ...](#)

<https://europepmc.org/article/PMC/PMC4732666> ▾

Jan 29, 2016 · Many clinical studies performed over the past decade have reported positive outcomes in patients with **lumbar degenerative disease** treated with the **Dynesys system** [4, 5]. However, relatively few studies have compared clinical and radiographic outcomes between the **Dynesys system** and **posterior lumbar interbody fusion (PLIF)** [6].

Cited by: 12

Author: Yang Zhang, Jian-Lin Shan, Xiu-Mei Liu, ...

Publish Year: 2016

[Dynamic stabilization using the Dynesys system versus ...](#)

<https://thejns.org/focus/view/journals/neurosurg-focus/40/1/article-pE7.xml> ▾

Jan 01, 2016 · OBJECTIVE. The **Dynesys**, a **pedicle-based dynamic stabilization (PDS) system**, was introduced to overcome **the drawbacks of fusion procedures**. Nevertheless, the theoretical advantages of **PDS over fusion** have not been clearly confirmed.

Cited by: 11

Author: Chang-Hyun Lee, Tae-Ahn Jahng, Tae-A...

Publish Year: 2016

[\[Dynamic Neutralization Using the Dynesys System for ...](#)

<https://pubmed.ncbi.nlm.nih.gov/20619111>

Dynamic stabilization using the **Dynesys system** versus **posterior lumbar interbody fusion** for the **treatment of degenerative lumbar spinal** disease: a clinical ...

Cited by: 9

Author: Jan Cienciala, Richard Chaloupka, Martin...

Publish Year: 2010

[Comparison of the Dynesys Dynamic Stabilization System and ...](#)

<https://www.researchgate.net/publication/292304817...>

Methods: Of 96 patients with **lumbar degenerative** disease included in this retrospectively analysis, 46