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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 50954

Manuscript Type: CASE REPORT

Lumbar disc rehydration in the bridged segment using BioFlex dynamic stabilization system: A case report and review of literature

Li YC *et al.* Disc rehydration and BioFlex system

Yong-Chao Li, Xiao-Fei Feng, Xiao-Dong Pang, Jun Tan, Bao-Gan Peng

ABSTRACT

BACKGROUND

In recent years, the mechanical concept of intervertebral disc regeneration has become more and more popular due to the increasing awareness of the importance of the preservation of the spine movement. Interestingly, there is increasing evidence, however, that dynamic stabilization systems may compensate non-physiological loads, limit pathological movement, normalize disc height and intradiscal pressure, and provide an adaptive environment for

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Disc Rehydration after Dynamic Stabilization: A Report of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5481589>

Jun 15, 2017 · Cho et al. published a **case report** of obvious **disc** regeneration visualized on MRI at 1 year after a DSS procedure. Bordes-Monmeneu et al. reported **rehydration** in nine of 20 (45%) patients in a 9-month follow-up period after **dynamic stabilization**. Similarly, in our study, we observed **rehydration** in 34 of 55 patients (34%), with single-grade ...

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Author: Atilla Yilmaz, Salim Senturk, Mehdi Sasa...

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The **Bioflex system** has been granted FDA approval as a semi-rigid fixation **system**, but it was designed to achieve **dynamic stabilization**. The **BioFlex System** is a flexible pedicle screw-based **dynamic stabilization system**, which has been used off-label in Korean to treat degenerative **lumbar** conditions with the goal of preserving motion in the area ...

Cited by: 6

Author: Ho Yeol Zhang, Jeong Yoon Park, Bo You...

Publish Year: 2009



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5481589>

Jun 15, 2017 · Patients with **simultaneous segmental instability and disc herniation** are well known to be at a risk of recurrent **disc herniation**. Although these patients may be treated via microdiscectomy alone, we performed **lumbar dynamic stabilization** in addition to microdiscectomy for such patients.

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Disc Rehydration after Dynamic Stabilization: A Report of ...

https://www.researchgate.net/publication/317804597_Disc_Rehydration_after_Dyna mic...

This study aimed to evaluate clinical **outcomes and disc regeneration** via MRI in a series of patients with **degenerative disc disease** (DDD) who **underwent lumbar stabilization** with a **dynamic stabilization system** (DSS). Overview of Literature A **dynamic system** provides **rehydration** during early DDD.

Lumbar disc rehydration postimplantation of a posterior ...

https://www.researchgate.net/publication/47642484_Lumbar_disc_rehydration...

Previous case reported the **lumbar disc rehydration** after the **implantation of a posterior dynamic stabilization system** in a single patient [8], the **Coflex™ device**...

Effectiveness of Transpedicular Dynamic Stabilization in ...

<https://www.sciencedirect.com/science/article/pii/S1878875017321381>

Glycosaminoglycan was increased in 61% of **fixed segment discs**, and the result suggested that **dynamic stabilization** was able to stop or partially reverse the degeneration. 15 Some researchers have reported the phenomenon of **intervertebral disc rehydration** after **lumbar dynamic stabilization**.16, 17 Our study evaluated the **disc signal** on T2-weighted images obtained



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Cited by: 2

Author: Lei Luo, Chengmin Zhang, Qiang Zhou, ...

Publish Year: 2017