



**A GUIDE FOR PATIENTS**

# **LITERATURE**

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literature page



# ❖ Degenerative Disc Disease

## ➤ **Stemming the degeneration: IVD stem cells and stem cells regenerative therapy for Degenerative disc disease**

The intervertebral disc (IVD) is immensely important for the integrity of vertebral column function. The highly specialized IVD functions to confer flexibility and tensile strength to the spine and endures various types of biomechanical force.



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## ➤ **Mesenchymal stem cell arrest intervertebral disc degeneration through chondrocyte differentiation and stimulation of endogenous cells**

Degenerative disc disease (DDD) is a common disease that affects millions of people. Autografts of the bone marrow-derived mesenchymal stem cells (BMSCs) have been shown to have the ability to arrest degeneration in rabbit and canine intervertebral discs.

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## ➤ **Stem cell therapy for degenerative disc disease**

Low back pain is widely recognized as one of the most prevalent pathologies in the developed world. In the United States, low back pain is the most common health problem for adults under the age of 50, resulting in significant societal and personal costs..

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## ➤ **Treatment of lumbar degenerative disc disease-associated regular pen with culture-expanded autologous mesenchymal stem cell: A pilot study on safety and efficacy**

In the present study, the clinical outcomes and second-look arthroscopic findings of intra-articular injection of stem cells with arthroscopic lavage for treatment of elderly patients with knee osteoarthritis (OA) were evaluated.

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## ➤ **Mesenchymal stem cell in Osteoarthritis: Current perspectives**

Osteoarthritis (OA) is a painful chronic condition with a significant impact on quality of life. The societal burden imposed by OA is increasing in parallel with the aging population; however, no therapies have demonstrated efficacy in preventing the progression of this degenerative joint disease.

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## ➤ **Clinical efficacy and safety mesenchymal stem cell transplantation for Osteoarthritis treatment: A meta analysis**

This study aimed to evaluate the therapeutic efficacy and safety of mesenchymal stem cells (MSCs) for the treatment of patients with knee osteoarthritis (OA).

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