

A GUIDE FOR PATIENTS

# LITERATURE

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## ❖ Osteoarthritis

### ➤ Safety Of Intravenous Infusion Of Human Adipose Tissue-Derived Mesenchymal Stem Cells in Animal and Human

Adipose tissue-derived mesenchymal stem cells (AdMSCs) represent an attractive and ethical cell source for stem cell therapy. With the recent demonstration of MSC homing properties intravenous applications of MSCs to cell-damaged diseases have increased. In the present study, the toxicity and tumorigenicity of human AdMSCs (hAdMSCs) were investigated for clinical application.

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### ➤ Treatment of knee osteoarthritis with autologous mesenchymal stem cells: A pilot study

Osteoarthritis is the most prevalent joint disease and a frequent cause of joint pain, functional loss, and disability. Osteoarthritis often becomes chronic, and conventional treatments have demonstrated only modest clinical benefits without lesion reversal. Cell-based therapies have shown encouraging results in both animal studies and a few human case reports. We designed a pilot study to assess the feasibility and safety of osteoarthritis treatment with mesenchymal stromal cells (MSCs) in humans and to obtain early efficacy information for this treatment..

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## ➤ Mesenchymal stem cell in Osteoarthritis

Accumulating evidence indicates that every tissue contains stem cells. Our understanding of the biology of stem cells reveals that these cell populations have a critical role in the homeostasis and repair of tissues. Besides the local stem cell niches, additional compartments in the body such as the bone marrow may serve as reservoirs for stem cell populations. On more extensive tissue damage, and guided by local repair responses, "reparative" cell populations are mobilized from more distant stem cell reservoirs and migrate to the site of injury, thereby contributing in many aspects of local tissue repair.

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## ➤ Clinical result and second-look arthroscopic findings after treatment of adipose-derived stem cell for knee osteoarthritis

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**

The aim of this study was 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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