

Study Shows Mesenchymal Stromal Cells Could Safely Treat Degenerative Disc Disease

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Surgeons may be able to treat intervertebral disc degeneration by cell therapy and by stimulating endogenous mesenchymal stromal cells from nucleus pulposus, according to an article published in *Spine*.

Tissue samples were taken from degenerative lumbar nucleus pulposus and from iliac crest of 16 patients with degenerative disc disease who were undergoing discectomy and fusion procedures. Mesenchymal stromal cells were isolated from both sources and compared for expansion time, immunophenotype, differentiation and molecular analysis.

Researchers found that the mesenchymal stromal cells and nucleus pulposus expanded in all cases and fulfilled nearly all morphological, immunophenotypical and differentiation criteria described by the International Society of Cell Therapy for MSC. There were slight differences in the bone marrow mesenchymal stromal cells from the same subjects.

Read the abstract about using mesenchymal stromal cells for [degenerative disc disorder](#).

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