

STEM CELL THERAPY FOR

Feline Osteoarthritis

BACKGROUND AND PURPOSE

Uterine-Derived Mesenchymal Stem Cell (U-MSC) Therapy for Feline OA

ETIOLOGY

- Progressive, degenerative disease
 - Cartilage breakdown
 - Joint inflammation
- 90% older cats display signs of OA¹
- Often bilateral
- Often multiple joints

CLINICAL SIGNS

- Cats hide their pain making signs more difficult to recognize
- Difficulty jumping, going up stairs
- Reduced grooming
- Increased pain and decreased mobility negatively impact physical appearance, energy and vitality, mood, sociability, and physical and mental wellbeing²

UNMET MEDICAL NEED

- Current therapies target symptoms but do not modify the underlying disease
- Long-term use of currently available medications may have negative consequences
- Pilot MSC study in cats with OA showed improvement in pain index³

SCREENING FOR CLINICAL TRIAL ELIGIBILITY

- Radiographs within 90 days to confirm OA in ≥ 2 joints
- Associated pain, lameness/abnormal weight bearing
- No evidence of end-stage OA, fractures, osteochondral fragments
- No instability, ligament/tendon/meniscal injuries
- No concomitant disease (cardiac, uncontrolled diabetes mellitus, hyperthyroidism, hypertension)
- No neurological disease

1. Lascelles BDX, Henry Iii JB, Brown J, et al. Cross-Sectional Study of the Prevalence of Radiographic Degenerative Joint Disease in Domesticated Cats: Degenerative Joint Disease in Domestic Cats. *Vet Surg.* 2010;39(5):535-544. doi:10.1111/j.1532-950X.2010.00708.x

2. Yeowell G, Burns D, Fatoye F, et al. Indicators of Health-Related Quality of Life in Cats With Degenerative Joint Disease: Systematic Review and Proposal of a Conceptual Framework. *Front Vet Sci.* 2021;8:582148. doi:10.3389/fvets.2021.582148

3. Mitani K, Ito Y, Takene Y, Inaba T. Evaluation of the quality of life-enhancing effect of allogeneic feline adipose mesenchymal stem cells in cats with osteoarthritis: A pilot study. *Res Vet Sci.* 2025;182:105470. doi:10.1016/j.rvsc.2024.105470

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