

# ARTHRYS LWP<sub>s</sub> IN OSTEOARTHRITIS TREATMENT

CASE REPORT #OP12FV - 7TH DEC 2022



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**Osteoarthritis**  
II-III Kellgren-  
Lawrence grade

Outpatient infiltration



**12 months**  
follow-up

Clinical assessment through VAS  
and KOOS-12 scales



**20 patients**  
18-55 years

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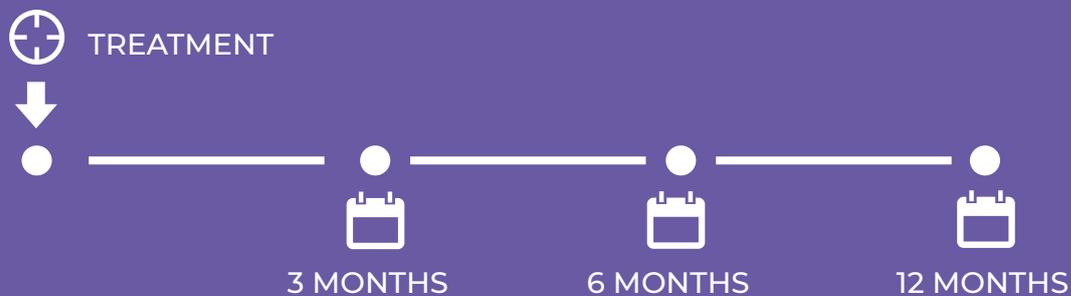
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# RATIONALE

Osteoarthritis is a degenerative disease that affects joints, resulting in pain and limited mobility. Treatments range from physical work and NSAIDs administration to major surgeries; in this gap there are several minimally-invasive approaches that mostly consist in intra-articular injections, either of molecules, i.e., hyaluronic acid, or autologous blood- or fat-derived cells. Indeed, the regenerative medicine protocols gained enormous consent in the past years, although results are dependent on the high individual variability of each patient, e.g., age, BMI, gender, smoke-habits, tissue characteristics. Collagen peptides are a novel biological approach “from the bench” that can rely on high standardization. The low molecular weight peptides (LWPs) of Arthrys are obtained from the hydrolytic fragmentation of bovine collagen. LWPs can spread into the joint environment, acting as a direct reinforcement of the extracellular matrix of connective tissues deteriorated by degenerative, inflammatory, or traumatic events.

# METHODS



**Osteoarthritis**  
II-III Kellgren-Lawrence  
grade



**20 patients**  
18-55 years

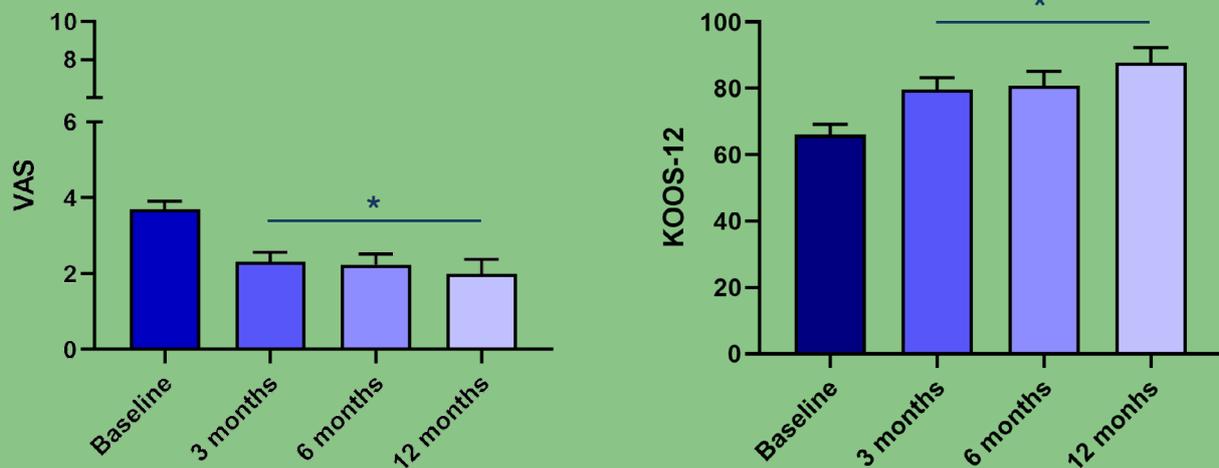


**Knee**  
Outpatient infiltration



**3, 6, and 12 months**  
follow-up

# RESULTS



Mean VAS pain score and KOOS-12 functional score (n=20) before and after Arthrys treatment.

Errors bars show SEM \*p vs. Baseline < 0.01

## DISCUSSION

At three months, pain alleviation was reported in all patients, and it persisted during all subsequent visits.

The treated group also showed a significant functional improvement, with the best outcomes at one year.

There was continuous pain alleviation and functional improvement. Low Molecular Weight Hydrolyzed Collagen Peptides (Arthrys 5) were administered to patients only once, and the effects persisted throughout the duration of the entire investigation. This implies that LWPs are a short- and long-term effective treatment for osteoarthritis.

The lack of reported adverse events confirms the safety of this treatment.