Hyaluronan derivative Hymovis® increases cartilage volume and type II collagen turnover in osteoarthritic knee: data from MOKHA study.

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OBJECTIVES

Intra-articular injections of hyaluronan represent one of the well-accepted standard of care for treating symptomatic knee osteoarthritis (OA). Until now, not much is known about the structural-modifying effect of this treatment justifying this pilot study.

RESULTS

Coll2-1 and PIIANP serum levels significantly increased overtime while Coll2-1NO2 levels were only increased at D360. Interestingly, the ratios Coll2-1/PIIANP and CTX-II/PIIANP decreased, indicating a decrease of cartilage catabolism (Table 1).

Collagen turnover

**Figure 2.** Mean T2 relaxation time (A) and cartilage volume (B) (FAS) Median values for Lateral Weight Bearing Femur and Patella Lateral Trochlea *P-value ≤ 0.05; ***P-value ≤ 0.001

CONCLUSION

HYMOVIS®, a well-tolerated intra-articular treatment, significantly enhanced type II collagen turnover as suggested by the increase of Coll2-1 and PIIANP levels ratio and cartilage volume observed by MRI in lateral knee compartment. These observations are corroborated by a decrease of T2 relaxation times.