

Resource Summary Report

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OAI Knowledge base

RRID:SCR_028107

Type: Tool

Proper Citation

OAI Knowledge base (RRID:SCR_028107)

Resource Information

URL: <https://nda.nih.gov/oai>

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Description: Centralized, annotated repository for the Osteoarthritis Initiative (OAI) study, designed to accelerate research by organizing and linking extensive clinical, imaging (MRI/X-ray), and biomarker data. It aims to help researchers analyze knee osteoarthritis prevention, treatment, and progression.

Synonyms: Osteoarthritis Initiative Knowledge base

Resource Type: data or information resource, knowledge base

Keywords: DRKB, clinical, imaging, MRI, X-ray, biomarker, data, osteoarthritis

Availability: Free, Freely available,

Resource Name: OAI Knowledge base

Resource ID: SCR_028107

Record Creation Time: 20260314T064515+0000

Record Last Update: 20260912T200543+0000

Ratings and Alerts

No rating or validation information has been found for OAI Knowledge base.

No alerts have been found for OAI Knowledge base.

Data and Source Information

Usage and Citation Metrics

We found 50 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Deng C, et al. (2026) Novel algorithm for knee localization and diagnosis and grading of knee osteoarthritis based on a priori information: data from OAI. BMC medical imaging, 26(1).

Sorbi R, et al. (2026) Multivariate analysis of newly diagnosed hip, knee, and combined hip and knee Osteoarthritis and recurrent fall risk: data from the Osteoarthritis Initiative. Frontiers in medicine, 13, 1710951.

Joseph GB, et al. (2026) Increase in knee-adjacent subcutaneous fat is associated with cartilage degeneration independent of BMI: A four-year analysis of the OAI dataset. Osteoarthritis and cartilage open, 8(2), 100768.

Alenazi AM, et al. (2026) Linking diabetes to worsening knee osteoarthritis symptoms and disability: evidence from the osteoarthritis initiative. Frontiers in medicine, 13, 1759342.

Rajamohan HR, et al. (2026) Robust disease prognosis via diagnostic knowledge preservation: A sequential learning approach. PloS one, 21(5), e0344600.

Joseph GB, et al. (2026) Association between central obesity and MRI-based biomarkers of knee osteoarthritis independent of BMI: A cross-sectional study from the Osteoarthritis Initiative database. Osteoarthritis and cartilage open, 8(2), 100810.

Wirth W, et al. (2026) Clinical validation of fully automated (peri-)articular tissue analysis for assessing osteoarthritis progression: A narrative review. Osteoarthritis and cartilage open, 8(1), 100719.

Harari R, et al. (2026) Predicting Knee osteoarthritis progression using explainable machine learning and clinical imaging data. Osteoarthritis and cartilage open, 8(3), 100832.

Kushioka J, et al. (2026) Temporal Patterns of Wearable Accelerometer-Measured Physical Activity and Symptom Worsening in Knee Osteoarthritis: A 2-Year Longitudinal Study from the Osteoarthritis Initiative. Sensors (Basel, Switzerland), 26(3).

Sudha K, et al. (2026) Enhanced swin transformer with dual attention for knee osteoarthritis severity grading from X-ray images. Scientific reports, 16(1).

Blanco FJ, et al. (2026) Predicting total knee replacement in knee osteoarthritis using a machine learning-guided approach in patients of the Osteoarthritis Initiative (OAI). RMD open, 12(1).

Blanco FJ, et al. (2026) Redox-Related Genetic and Biological Ageing Signals in Rapid Pain Progression of Knee Osteoarthritis: A Hypothesis-Generating Analysis in the

Osteoarthritis Initiative. Antioxidants (Basel, Switzerland), 15(2).

Wang F, et al. (2025) The association between anserine bursa pain and fall susceptibility: a prospective analysis of the osteoarthritis initiative. *Frontiers in aging*, 6, 1666627.

Mandler E, et al. (2025) Changes to the Intercondylar Ligaments of the Knee in Different Stages of Osteoarthritis-A Retrospective Cross-Sectional Study. *Journal of clinical medicine*, 14(13).

Löffler MT, et al. (2025) Association between constant and intermittent knee pain and T2 values and cartilage thickness: data from the osteoarthritis initiative. *Arthritis research & therapy*, 27(1), 196.

Yang Y, et al. (2025) Impact of stair climbing volume on patellofemoral cartilage: a dose-response analysis from the osteoarthritis initiative reveals elevated risk at middle levels. *Frontiers in medicine*, 12, 1699297.

Deng C, et al. (2025) The changes in 3D bone morphology mediate the association between meniscal extrusion and radiographic progression of osteoarthritis: data from the Osteoarthritis Initiative. *Quantitative imaging in medicine and surgery*, 15(4), 2789.

Kiehl D, et al. (2025) Relationship of strength training lifetime exposure with functional outcomes and mobility over 4 years: Data from the Osteoarthritis Initiative. *Journal of sport and health science*, 15, 101102.

D'Assignies G, et al. (2025) Combining Machine-Learning Assessment of Multiple MRI Pathologies and Clinical Phenotypes for Predicting Joint Replacement in Knee Osteoarthritis: Data From the Osteoarthritis Initiative. *Cartilage*, 19476035251395177.

Minnig MCC, et al. (2025) Identifying trajectories of joint space width loss among previously injured knees: Data from the Osteoarthritis Initiative. *PloS one*, 20(6), e0325822.