

## Supplementary Online Content

Chang AH, Lee J, Chmiel JS, Almagor O, Song J, Sharma L. Association of long-term strenuous physical activity and extensive sitting with incident radiographic knee osteoarthritis. *JAMA Netw Open*. 2020;3(5):e204049.  
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**eTable.** Eligibility and Exclusion Criteria for Participants at High Risk for Knee Osteoarthritis

**eFigure 1.** Derivation of Analysis Sample (n = 1194)

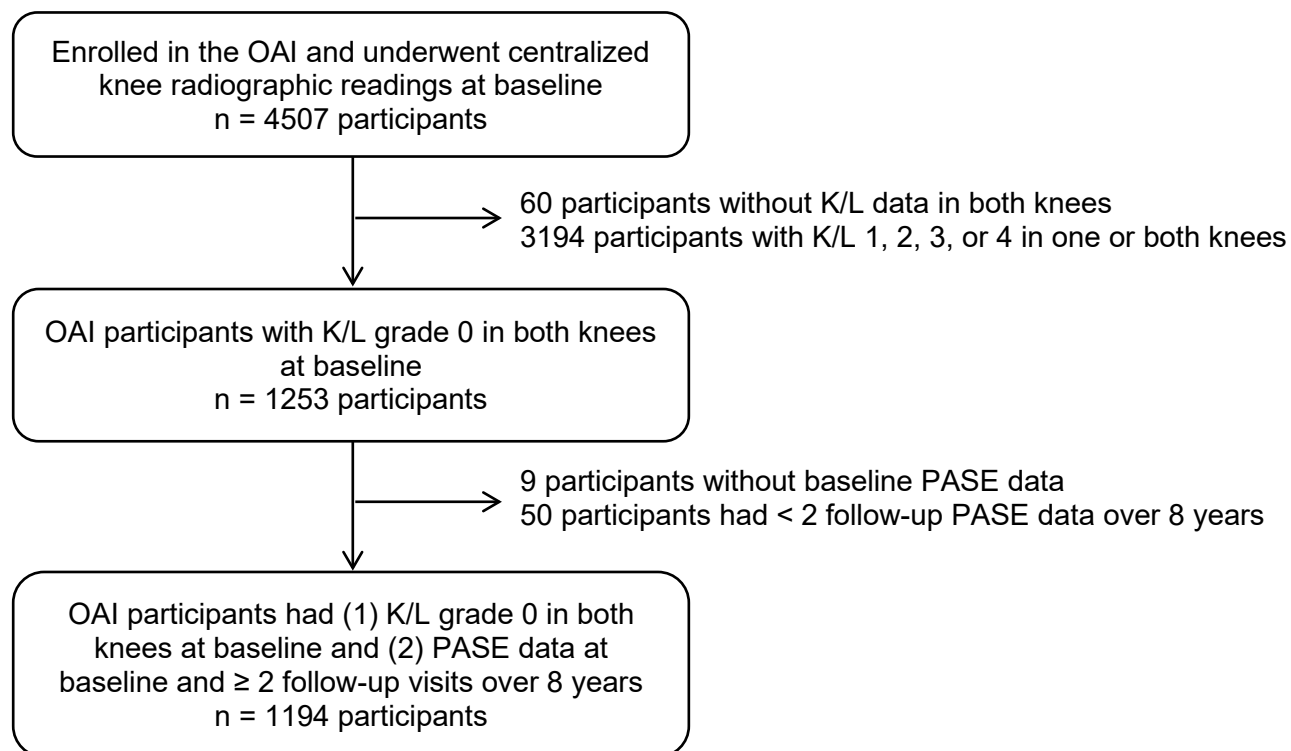
**eFigure 2.** Associations of Extensive Sitting Trajectories With 10-Year Incident Radiographic Knee Osteoarthritis

This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable.** Eligibility and Exclusion Criteria for Participants at High Risk for Knee Osteoarthritis

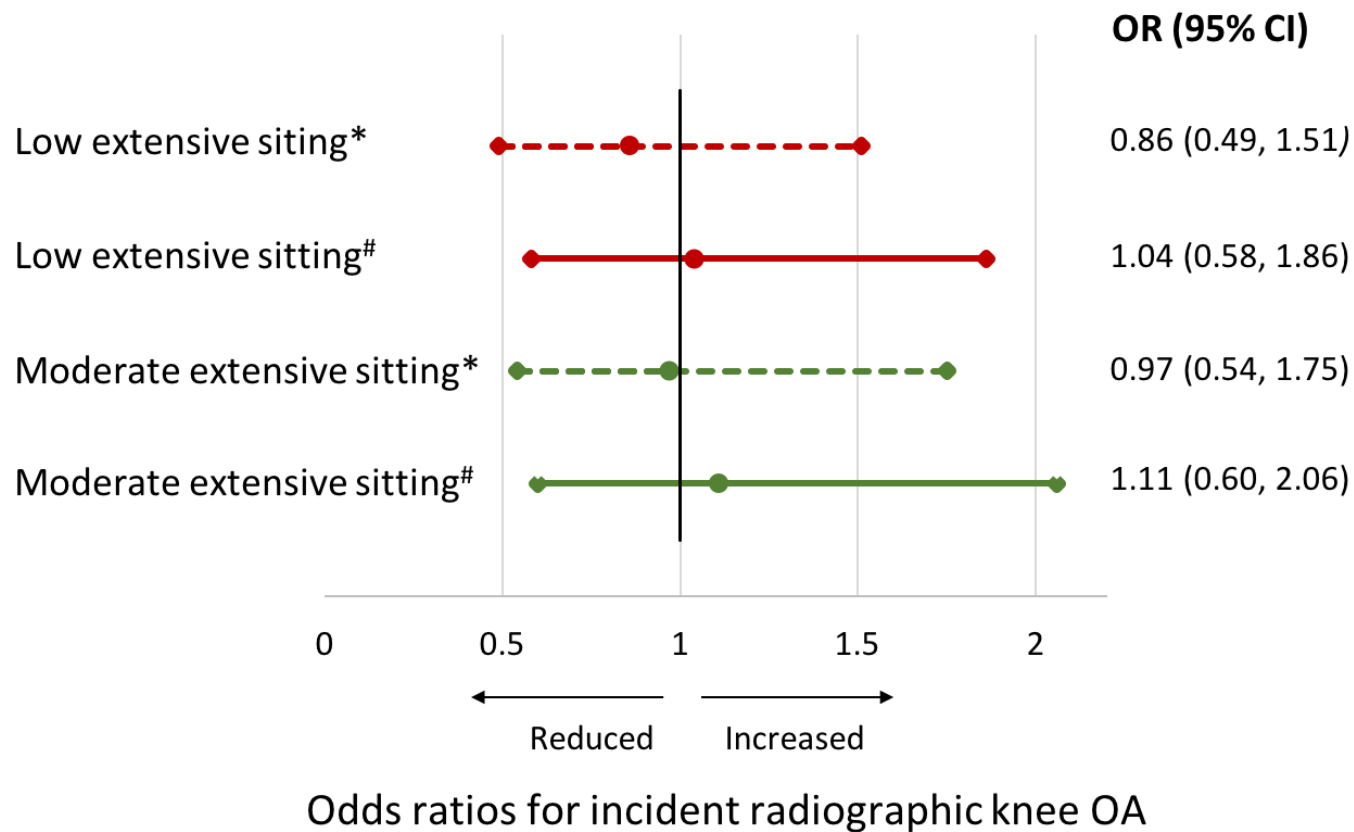
<b>Criteria</b>	<b>Description</b>
Age and sex distribution	Proportional to the US population
Racial/ethnic minority representation	Per representation in respective area
Enrollment site	Baltimore, Maryland; Columbus, Ohio; Pittsburgh, Pennsylvania; or Pawtucket, Rhode Island
Eligibility	One or more of the following, in the absence of radiographic knee osteoarthritis:
	Frequent knee symptoms (most days of 1 mo in the past 12 mo)
	Excess body weight (body weight above the median for each age- and sex-specific group, based on data from the Framingham Osteoarthritis Study)
	Prior knee injury causing walking difficulty for at least 1 wk
	Previous knee surgery
	Family history of knee replacement
	Heberden nodes
	Repetitive knee bending
	Aged 70-79 y
Exclusion	Inflammatory arthritis
	Severe bilateral joint space narrowing
	Knee replacement and severe contralateral narrowing
	Bilateral knee replacement or plan for it within 3 y
	Magnetic resonance imaging contraindications
	Use of aids for >50% of ambulation (except 1 cane)
	Severe comorbidity
Double-blind clinical trial participation	
Recruitment	Community-dwelling individuals recruited through population lists, mass mailing of study materials, and media and community outreach

**eFigure 1.** Derivation of Analysis Sample (n = 1194)



OAI: Osteoarthritis Initiative; K/L: Kellgren/Lawrence; PASE: Physical Activity Scale for the Elderly

**eFigure 2.** Associations of Extensive Sitting Trajectories With 10-Year Incident Radiographic Knee Osteoarthritis



Red marks and lines represent low extensive sitting trajectory subgroup over 8 years. Green marks and lines represent moderate extensive sitting trajectory subgroup. Reference group: high extensive sitting trajectory subgroup. Odds ratios (ORs) and 95% confidence intervals (CIs) are plotted; a 95% CI that is completely below the value of 1 supports a statistically significant reduced likelihood of incident knee osteoarthritis.

\*unadjusted (dashed lines); #adjusted for age, sex, and BMI (solid lines)