Hip osteoarthritis prevalence is lower in Chinese compared to White individuals

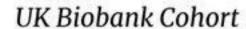
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Zheng et al. 2025. Osteoarthritis Cartilage, 33(4), pxx-xx

Lower hip osteoarthritis (HOA) prevalences have been reported in Asian compared to Caucasian individuals. However, the causes of these differences are unknown. Therefore, this study examined close to **45,000** participants from the UK Biobank & Shanghai Changfeng cohorts and found that hip morphology differences between Chinese and Caucasian individuals might be a contributor to ethnic differences in the prevalence of radiographic HOA (rHOA).

Shanghai Changfeng Cohort

Chinese



Caucasian



RHOA Prevalence

2.2% Q 13.1% 12.0% Q 25.1%

Cam Morphology Prevalence

6.3% o⁷ 16.5%

Femoral Head Size

Wider Narrower

DFH & HAL

Smaller Larger

DFH:FNW Ratio

Larger Smaller

DFH, diameter of femoral head **HAL**, hip axis length **FNW**, femoral neck width

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