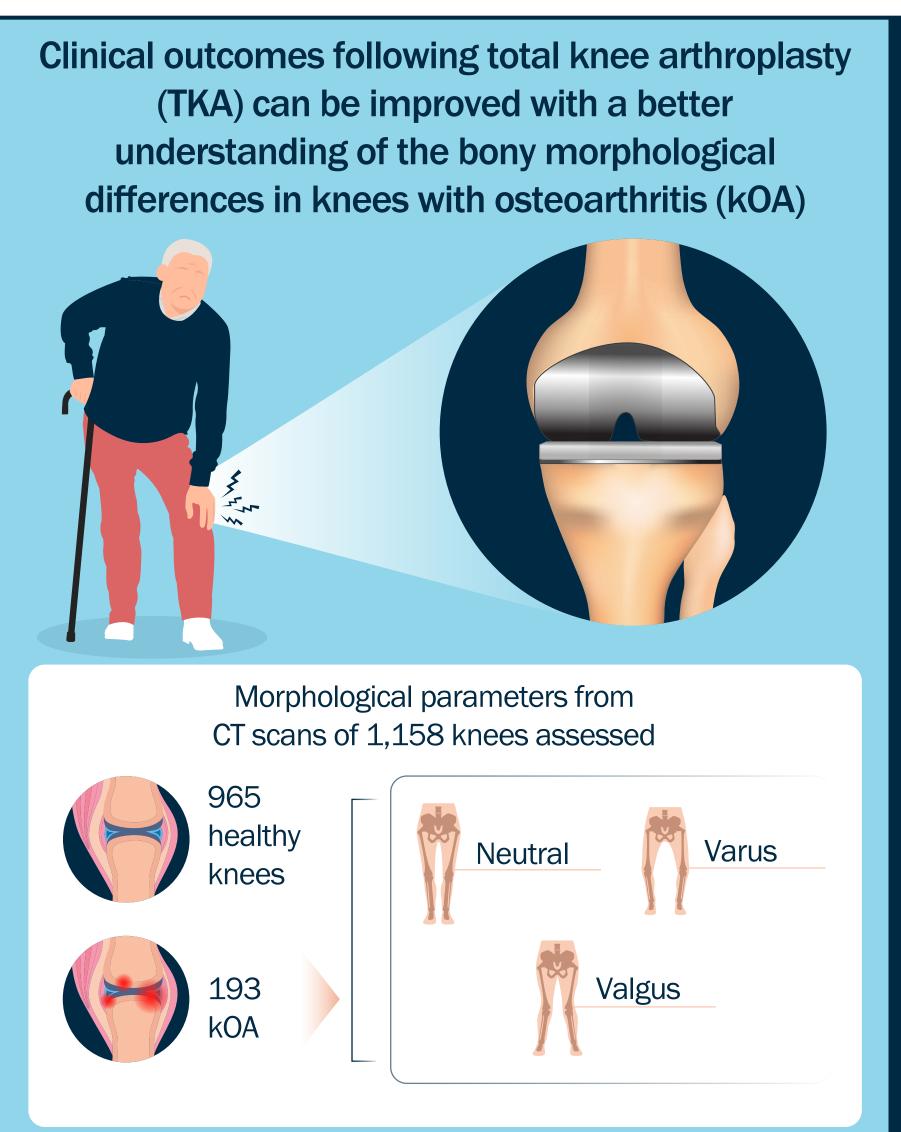
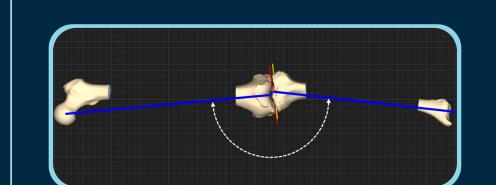
Osseous Morphological Differences Among Knees with Osteoarthritis





Overall limb alignment

The kOA group:

- Had a larger non weight-bearing hip-knee-ankle angle
- Was in overall varus

Distal femoral anatomy

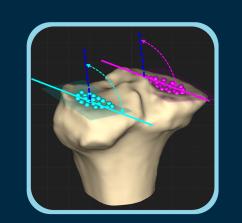


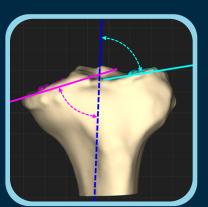
In the kOA:

- Surgical transepicondylar axis was less externally rotated
- Condylar offset and radius ratio were smaller

kOA with valgus deformity had a greater condylar radius ratio

Proximal tibial anatomy





The kOA group displayed:

- Significantly smaller medial posterior slope
- Larger lateral posterior slope
- Smaller medial coronal slope

Significant differences in the posterior condylar axis, condylar offset, condylar radius, and tibial slope were seen between normal and osteoarthritic knees

Knowing the morphological differences among kOA and between healthy knees and kOA can improve implant positioning and balancing in TKA, thereby improving surgical outcomes

Osseous Morphological Differences in Knee Osteoarthritis

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