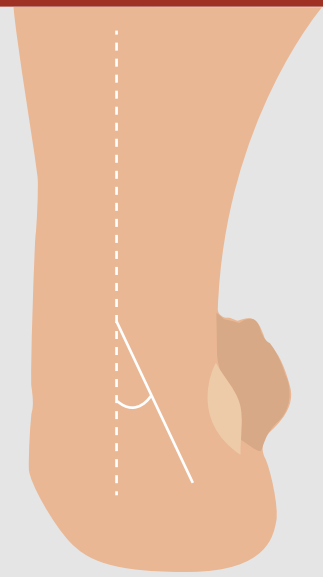


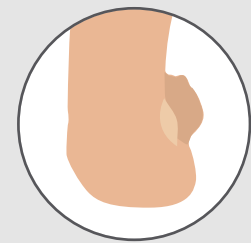
Can Total Ankle Arthroplasty Be Performed in Patients with Preoperative Severe Coronal Plane Deformity?



>20°

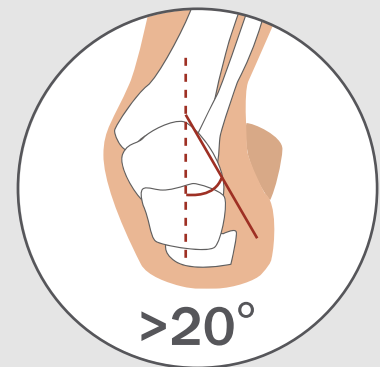
Preoperative coronal plane deformity of >20° is considered a contraindication for total ankle arthroplasty (TAA)

However, whether the severity of the deformity affects the outcomes has not been studied



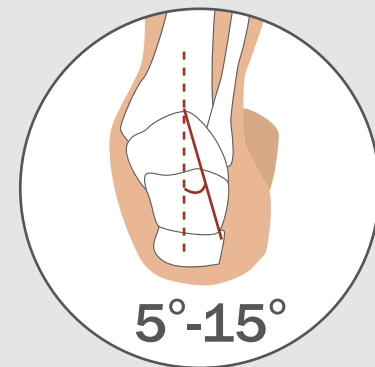
Patients undergoing TAA
(N = 148 ankles)

Classified based on preoperative coronal plane tibiotalar angle



>20°

Severe group (20°-35°)
(n = 41)



5°-15°

Moderate group (5°-15°)
(n = 107)

Clinical and radiographic outcomes



>20°

Severe group



Final tibiotalar angle
Talar tilt angle
Number of outliers

compared with



5°-15°

Moderate group



Survival probability



Outcome and pain scores



Range of motion



Complication rates

Similar for both groups



TAA in ankles with severe and moderate deformity preoperatively achieved good and comparable outcomes postoperatively, indicating that TAA can be considered for ankles with deformity of >20°

Outcomes of Total Ankle Arthroplasty in Ankles with >20° of Coronal Plane Deformity

Lee et al. (2019) DOI: 10.2106/JBJS.19.00416

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