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Title

**PATELLOFEMORAL OVERSTUFF AND ITS RELATIONSHIP
TO FLEXION AFTER TOTAL KNEE ARTHROPLASTY**

Authors

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Clinical Orthopaedics and Related Research. 2006;449:283-287

Purpose/Premise

This study was conducted to determine the effect of variations in the anterior aspects of the femur on passive flexion.

Material and Methods

The change in the height of the trochlear groove was evaluated in 55 patients after TKA, and the corresponding effects on flexion were determined in 10 cadavers.

Outcomes

The thickness of the anterior flange was increased 1.1mm +/-2.6mm on the lateral aspect, and 0.5mm +/-2.2mm on the medial aspect. The trochlear groove thickness change was 0.0mm +/-1.1mm. For a 2mm buildup of the anterior cortex, the flexion loss was 1.8°. For a 4mm buildup of the anterior cortex, the flexion loss was 4.4°.

Conclusion/Recommendation

The authors concluded that the thickness of the anterior flange of the femoral component in TKA may affect flexion, but that these small effects may not be clinically important.

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