Title

MECHANISM OF ANTERIOR IMPINGEMENT DAMAGE IN TOTAL KNEE ARTHROPLASTY

Authors
Banks SA, Harman MK, Hodge WA

Publication
Journal of Bone and Joint Surgery. 2002:84-A(2):37-42

Purpose/Premise
This article analyzes the mechanism for anterior wear in retrieved polyethylene tibial articular surfaces.

Material and Methods
Visual inspection was performed on 48 retrieved tibial inserts. In addition, a number of previous studies were reviewed.

Outcomes
Anterior impingement damage was found in 66% of the cruciate retaining components, and 75% of the posterior stabilized components.

Conclusion/Recommendation
It was concluded that delamination, burnishing, and deformation were common wear modes in the retrieved implants.

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