



***Title***

**TIBIAL POST WEAR IN POSTERIOR-STABILIZED TOTAL KNEE ARTHROPLASTY:  
AN UNRECOGNIZED SOURCE OF POLYETHYLENE DEBRIS**

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***Purpose/Premise***

This study examined the wear patterns at the cam/post interface of retrieved posterior stabilized implants.

***Material and Methods***

Wear patterns were analyzed using digital images of the posts of 23 retrieved implants. The grading system used distinguished adhesive, abrasive, and fatigue wear.

***Outcomes***

Wear damage was evident on the posts of all 23 implants, mainly posteriorly. Eight of the implants showed delamination, and seven involved significant loss of polyethylene. Furthermore, five of the seven also showed delamination of the condylar articulating surface.

***Conclusion/Recommendation***

The investigators concluded that the articulation between the cam and post of a posterior stabilized knee implant is an additional source of polyethylene wear debris, and that this wear may influence negative outcomes.

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