

RECLAIM™

MODULAR REVISION HIP SYSTEM

Stability and Strength with Simplicity

Bi-cortical Contact Predicts Subsidence of Modular Tapered Stems in Revision Total Hip Arthroplasty

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Journal of Arthroplasty – April 2020¹

- A retrospective cohort study reviewing 109 hips in 105 patients at a minimum of 2 years follow-up.
- All revisions were carried out for Paprosky type 3A or 3B femoral deficits.
- The cohort comprised 74 RECLAIM™ Revision Hip System and 35 Restoration Modular procedures.

Mean subsidence was significantly lower in the RECLAIM Revision Hip System group 2.34 mm vs 5 mm for Restoration Modular ($p=0.007$).

There was no statistical difference in significant subsidence rates, defined as >10 mm, between the two groups ($p= 0.317$).

The authors identified that a reduced bi-cortical contact distance of <20 mm and a stem length of ≤ 155 mm (both $p<0.001$) were associated with higher subsidence rates. Additionally, a mean subsidence of 8.89mm was observed when a threshold of 20 mm bi-cortical contact was not achieved compared to a mean subsidence of 2.13 mm when a threshold of 20 mm was achieved. This difference was statistically significant ($p<0.001$). The aseptic re-revision rate was 6.7% ($n=5$) in the RECLAIM Revision Hip System group and 5.7% ($n=2$) in the Restoration Modular group. There was no statistically significant difference in aseptic re-revision rates ($p=0.162$).

Key Takeaways

A minimum bi-cortical contact of 20mm should be exceeded to reduce the risk of stem subsidence in Modular Femoral Revision stems

In this study:

- RECLAIM Revision Hip System demonstrates significantly lower mean subsidence than Restoration Modular.
- There is no statistically significant difference in clinically significant subsidence rates, >10 mm, between RECLAIM Revision Hip System and Restoration Modular.
- No statistically significant difference in aseptic re-revision rate between RECLAIM Revision Hip System and Restoration Modular.
- Intra-operative imaging can be utilized to help ensure the threshold bi-cortical contact of 20 mm is achieved.



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141413-200526 DSUS/EMEA

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1. Moriarty P, Sheridan GA, Wong L, Guerin S, Gul R, Harty JA. Bicortical Contact Predicts Subsidence of Modular Tapered Stems in Revision Total Hip Arthroplasty [published online ahead of print, 2020 Apr 1]. J Arthroplasty. 2020;S0883-5403(20)30319-3.

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