

POLAR3[◇] Total Hip Solution delivers excellent performance with high survivorship at 10 years

Overview

- Bespoke implant report produced by the UK NJR (National Joint Registry) summarising usage and outcomes associated with POLAR3, the combination of POLARSTEM[◇], OXINIUM[◇] femoral head, highly cross-linked polyethylene (XLPE) bearing and R3[◇] cup
- The analysis is based on data collected by the NJR and on PROMs data collected by NHS Digital*
- Reported POLAR3 usage between July 2007 and August 2021 for:
 - 16,633 total hip replacements (THR)
 - 15,107 total patients
 - 374 implanting surgeons at 91 centres

Results

- Survivorship for POLAR3 at 10 years was 97.6%
- Data showed that, compared to all cementless stems, POLAR3:
 - Demonstrated a significantly lower revision rate at 10 years (2.4 vs 3.4%, $p=0.01$)
 - Provided a 34% lower revision risk ($p<0.001$)†
 - Was associated with significantly fewer revisions due to aseptic loosening of the stem ($p<0.001$)
 - Delivered significantly higher patient satisfaction, success outcomes and improvements in PROMs ($p<0.001$)



97.6%

POLAR3 survivorship



34%

Significantly lower revision risk with POLAR3 compared to all other cementless stems ($p<0.001$)

Conclusion

POLAR3 delivers excellent mid-term survivorship in the UK NJR. It also delivers significantly higher patient satisfaction, success outcomes and improvements in PROMs compared to the class average for cementless stems in THR patients.

Considerations

*The data used for this analysis was obtained from the NJR Supplier Feedback System. The Healthcare Quality Improvement Partnership ('HQIP') and/or the National Joint Registry ('NJR') take no responsibility for the accuracy, currency, reliability and correctness of any data used or referred to in this report, nor for the accuracy, currency, reliability and correctness of links or references to other information sources and disclaims all warranties in relation to such data, links and references to the maximum extent permitted by legislation.

†Unadjusted analysis. All results reported exclude metal-on-metal bearings.