

Long-term survivorship of REFLECTION[®] XLPE All Polyethylene in primary total hip arthroplasty (THA)

Overview

- Automated Industry Report produced by the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR) summarising usage and outcomes associated with REFLECTION All Polyethylene acetabular cup with XLPE liner versus all other primary THA in this registry
- REFLECTION All Polyethylene recorded usage between September 1999 and May 2021
 - 1,756 total primary THA procedures
 - 1,653 total patients
 - 152 implanting surgeons at 110 centres

Results

- REFLECTION All Polyethylene was more frequently implanted in female than male patients (65.3 vs 34.7%, respectively)
- Patients receiving REFLECTION All Polyethylene were older than those receiving other THA, with more patients aged ≥75 years (53.8 vs 30.1%, respectively)
- THA survivorship at 16 years was greater with REFLECTION All Polyethylene compared to all other conventional THA (94.1 vs 91.8%, p=ns; Figure)
- THA revision rate (any component) was lower with REFLECTION All Polyethylene than all other conventional THA (0.51 vs 0.61 revisions/100 observed years)
- Most frequent reasons for revision were comparable between groups

Figure 1: Cumulative Percent Revision of Primary Total Conventional Hip Replacement by Model (All Diagnoses)

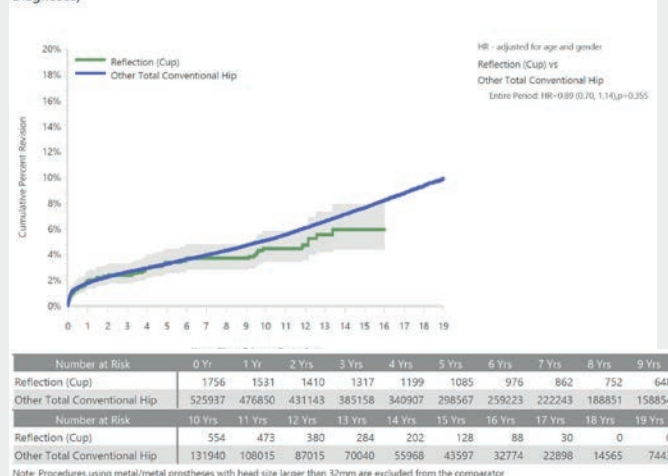


Figure. Cumulative percent revision of primary total conventional hip replacement by model (all diagnoses). All reasons for revision, any THA component. Image reproduced in full.

Conclusions

Primary THA with REFLECTION All Polyethylene had a survivorship of 94.1% at 16 years, with reasons for revisions being comparable to all primary THA.

Considerations

Standardised Automated Industry Reports provide industry with access to up-to-date, high quality, independent analysis of their products and product combinations.

Disclaimer – AOANJRR is confident in the accuracy of the data included in this report, at the time it was provided. However, it was generated using an automated reporting system and has not been reviewed by the AOANJRR personnel.

Source: Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR), Automated Industry Report System (AIRS), ID No. 4177 for Smith+Nephew, Reflection (Cup) Total Conventional, Procedures from 1 September 1999 – 7 May 2021. Accessed 9 May 2021. AOA, Adelaide: 1-21.