

AOA AIRS - Analysis of Collared and Collarless Total Hip Replacement with CORAIL® Standard Femoral Stem

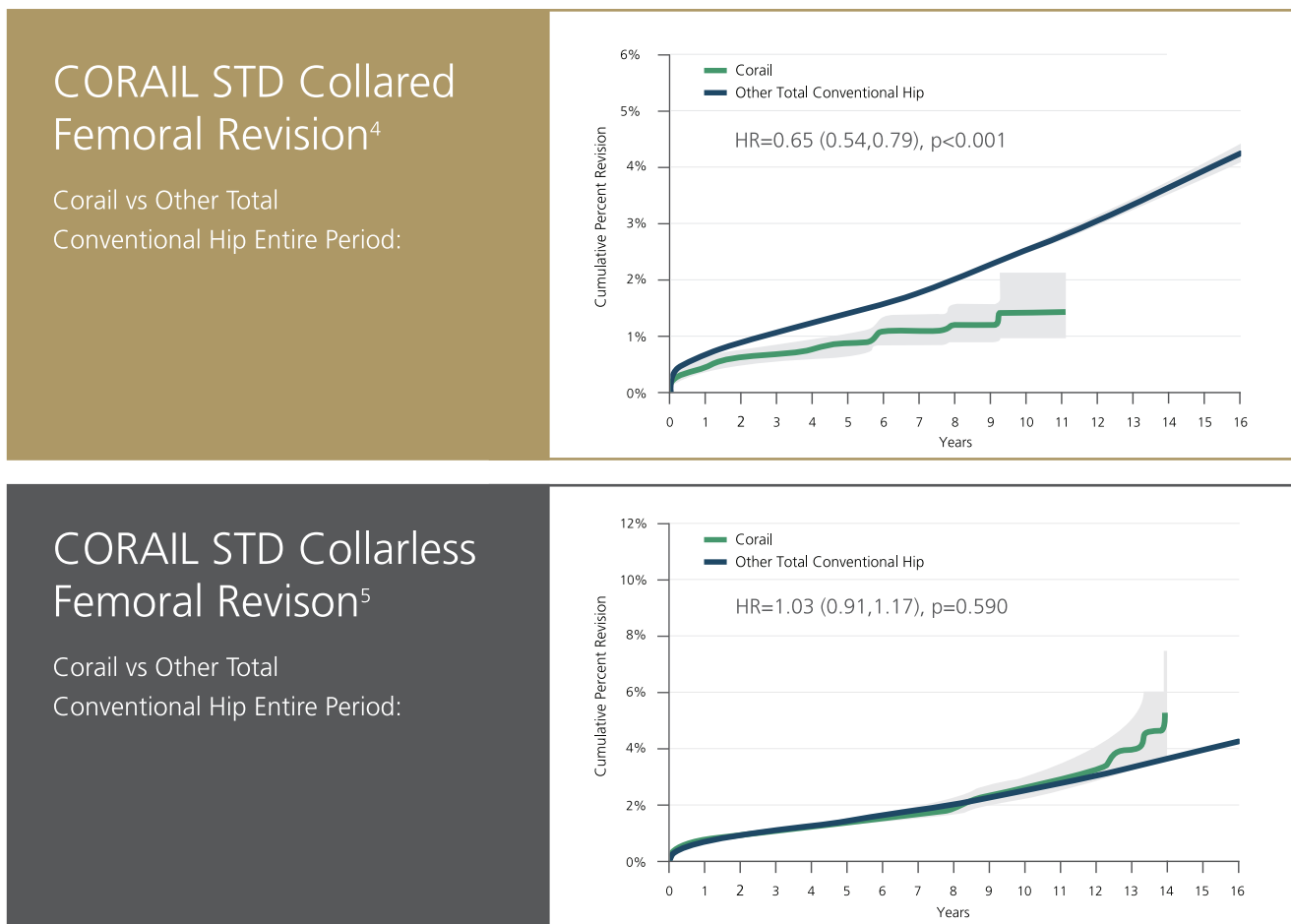
The Automated Industry Report System (AIRS) provides Industry with access to up-to-date high-quality independent analysis of products on the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR).¹ The CORAIL® standard femoral stem is available both with and without a collar. This report was generated to analyse the performance of the CORAIL Standard (STD) Collared femoral stem and the CORAIL STD Collarless femoral stem.

It is claimed that collared prosthesis provides advantages in the early stability of the implant, allowing for earlier post-operative weight bearing, protection against subsidence, and a positive dispersion of the vertical forces via the collar into the medial calcar.^{2,3}

This report contains the analysis of 13,884 CORAIL STD Collared implantations (mean age 67.2, 32.2% male) and 15,584 CORAIL STD Collarless implantations (mean age 65.7, 39.1% male). All Metal-on-Metal prostheses with head size larger than 32mm are excluded from this report.^{4,5}

The CORAIL STD Collared femoral stem has a 35% lower risk of femoral revision when compared to all other total conventional hip constructs on the AOA NJRR, (HR=0.65 (0.54,0.79), p<0.001 adjusted for age and gender (figure 1).⁴ The CORAIL STD Collarless femoral stem has a similar risk of femoral revision when compared to all other total conventional hip constructs on the AOA NJRR, (HR=1.03 (0.91,1.17), p=0.590 adjusted for age and gender (figure 1).⁵

Figure 1. Cumulative Percent Revision of Primary Total Conventional Hip Replacement by Model (All Diagnoses, Femoral Stem Revisions) (Table 3, AOANJRR 14/06/2018 & 17/07/2018).



IN SUMMARY

The CORAIL STD Collared femoral stem has a 35% lower risk of femoral revision when compared to all other total conventional hip constructs on the AOA NJRR (HR=0.65 (0.54,0.79), $p<0.001$)

The CORAIL STD Collarless femoral stem has a similar risk of femoral revision when compared to all other total conventional hip constructs on the AOA NJRR (HR=1.03 (0.91,1.17), $p=0.590$)

References

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