

CORAIL[®]
HIP SYSTEM



CORAIL[®] Hip System

Clinical Summary

PINNACLE®

HIP SOLUTIONS

Over the last 15 years, the PINNACLE® Acetabular Cup System has been provided to over

3,000,000
patients.¹



5A* PINNACLE GRIPTION Acetabular System

In 2019 the PINNACLE Cementless Acetabular Cup was awarded an ODEP 13A* by the Orthopaedic Data Evaluation Panel.³

CORAIL®

HIP SYSTEM

The CORAIL Hip System celebrated 30 years in 2016, and in that time has been provided to over

2,000,000
patients.²



5A CORAIL Cemented Total Hip System

In 2018 the CORAIL and CORAIL AMT Total Hip System were awarded an ODEP 13A* by the Orthopaedic Data Evaluation Panel.³

Australian Orthopaedic Association National Joint Replacement Registry Data for the CORAIL/PINNACLE Combination

According to the 2018 AOANJRR annual report, the CORAIL PINNACLE combination is the most implanted combination in cementless total hip replacement across Australia.⁴

Combination	Total	Year 2	Year 5	Year 10
CORAIL, PINNACLE	38,657	2.2% (2.0%-2.3%)	3.2% (3.0%-3.4%)	5.4% (5.0%-5.9%)

National Joint Registry for England, Wales, Northern Ireland and the Isle of Man. Registry Data for the CORAIL/PINNACLE Combination

Based on the 2018 Annual Report, CORAIL PINNACLE was the most implanted combination in total hip replacement across England, Wales, Northern Ireland and the Isle of Man^{5,6}

Combination	Implantations	Year 3	Year 5	Year 10
CoC	40.187	1.80% (1.67%-1.94%)	2.44% (2.28%-2.615)	3.92% (3.61%-4.25%)
CoP	27.896	1.13% (0.99%-1.28%)	1.59% (1.40%-1.81%)	2.84% (2.29%-3.52%)
MoP	55.211	1.35% (1.26%-1.46%)	1.66% (1.54%-1.79%)	3.13% (2.84%-3.46%)



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Clinical and Radiographic Outcomes at 25-30 Years of a Hip Stem Fully Coated With Hydroxyapatite

Jacquot L, Bonnin M, Machenaud A, Chouteau J, Saffarini M, Vidalain JP JoA: 33 (2018) 482-490⁷

347 CORAIL® Stems were implanted in 320 patients between July 1986 and December 1990. The mean follow up of the cohort is 26.8 years (Range 25-30 years).

Only 12 stems (3%) were revised, and only 6 of these were revised due to aseptic loosening.

When all causes of stem removal were considered, the CORAIL Stem survival in this series was 93.7% at 30years.

At final follow up 96% of patients responded to say they were still satisfied with their hip. The mean Harris Hip Score was 81.6 (Range 37-100).

Primary Collared Uncemented Total Hip Arthroplasties in the Elderly: A Safe and Reliable Treatment Option

Schaller G, Black J, Asaad A, Harper N, Webb S, Muirhead-Allwood S. The Journal of Arthroplasty 30 (2015) 407-410.⁸

A consecutive cohort of 153 patients aged over 80 years were included in this study. The mean age was 84.5 (range 80-95 years) and 120 (78%) were females. 144 patients received a collared CORAIL Stem.

The mortality rate at 90 days was 0.65%. Only one patient required revision, due to a dislocation following trauma.

The Oxford Hip Score improved from a mean of 24 (range 4-41) pre-operatively to a mean of 46 (range 9-48) at 90 days.

This study demonstrates the successful use of a collared cementless implant in an elderly population, with excellent short-term postoperative complication rate, low mortality rate and good functional outcomes.



CORAIL uncemented hemiarthroplasty with a Cathcart head for intracapsular hip fractures

B. J. L. Kendrick, H. A. Wilson, J. E. Lippett, A. R. McAndrew, A. J. M. D. Andrade.
Bone Joint J 2013;95-B:1538-43.⁹

A total of 306 patients received a Cathcart modular head on a collared CORAIL Uncemented Stem as a hemi-arthroplasty. The mean age of the patients was 83.3 years (range 46.6 to 94) and 216 (70.6%) were women.

The mortality rate at 30 days was 5.8% which compares well to the 2011 NICE guidelines. 2 patients required revision to THR and in both cases this was due to continued deterioration of the acetabulum

The primary aim of hemi-arthroplasty is to allow early mobilization and a return to normal activity. Within this study a total of 46.5% of patients returned to their own home by 30 days, which increased to 73.2% by 120 days. At one year a high proportion of patients had achieved their pre-fracture mobility rate.

Using a modern uncemented hip implant in a hemi-arthroplasty for intracapsular hip fracture provided satisfactory results, with a good rate of return to pre-injury place of residence and an acceptable mortality rate.

Hip arthroplasty in patients younger than 30 years: excellent ten to 16-year follow-up results with a HA-coated stem

Wangen H, Lereim P, Holm I, Gunderson R and Reikerås O.
Int Orthop. 2008 Apr; 32(2): 203–208.¹⁰

A total of 49 uncemented THRs were performed using the CORAIL Stem in 44 patients aged under 30 years (mean 25, range 15-30).

At a mean follow up of 13 years the survivorship of the femoral stem was 100%.

100% of stems were well integrated, with no signs of radiological loosening and no signs of subsidence.

The study reports excellent Harris Hip Scores (Mean 90, range 62-100)



References

1. TSM Report, CORAIL WW implantations YTD, 1986 - 2018.
2. TSM Report, PINNACLE WW implantations YTD, 2001 - 2018.
3. Orthopaedic Data Evaluation Panel. ODEP product ratings. Latest ODEP ratings can be found at www.odep.org.uk [Accessed 16/01/2019].
4. Australian Orthopaedic Association National Joint Replacement Registry. Annual Report. Adelaide: AOA; 2018. Available from URL: <https://aoanjrr.sahmri.com/annual-reports-2018>. Extracted from Table TY1.

Table TY1 Cumulative Percent Revision of Primary Total Conventional Hip Replacement Combinations with 10 Year Data (Primary Diagnosis OA)

Femoral Stem	Acetabular Component	N Revised	N Total	Type of Revision			2 Yr	5 Yrs	10 Yrs	
				THR	Femoral	Acetabular				Other
Corail	Pinnacle	1169	38657	101	409	189	470	2.2 (2.0, 2.3)	3.2 (3.0, 3.4)	5.4 (5.0, 5.9)

5. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 15th Annual Report, 2018. Table 3.10. Available from www.njrreports.org.uk
6. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 15th Annual Report, 2018. Table 3.9. Available from www.njrreports.org.uk
7. Jacquot L, Bonnin M, Machenaud A, Chouteau J, Saffarini M, Vidalain JP. Clinical and Radiographic Outcomes at 25-30 Years of a Hip Stem Fully Coated With Hydroxyapatite. *J Arthroplasty*. 2018; 33: 482-90.
8. Schaller G, Black J, Asaad A, Harper N, Webb S, Muirhead-Allwood S. Primary Collared Uncemented Total Hip Arthroplasties in the Elderly: A Safe and Reliable Treatment Option. *J Arthroplasty*. 2015;30(3):407-10
9. B. J. L. Kendrick, H. A. Wilson, J. E. Lippett, A. R. McAndrew, A. J. M. D. Andrade. CORAIL uncemented hemiarthroplasty with a Cathcart head for intracapsular hip fractures. *Bone Joint J* 2013;95-B:1538-43.
10. Wangen H, Lereim P, Holm I, Gunderson R and Reikerås O. Hip arthroplasty in patients younger than 30 years: excellent ten to 16-year follow-up results with a HA-coated stem. *Int Orthop*. 2008 Apr; 32(2): 203–208.

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