

**CORAIL<sup>®</sup>**  
HIP SYSTEM



# CORAIL<sup>®</sup> Hip System

Clinical Summary



# CORAIL<sup>®</sup>

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HIP SYSTEM

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## 25-year ARTRO Results: A Special Vintage from the Old World

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Vidalain, J-P  
The CORAIL Hip System: A Practical approach  
based on 25 years of experience. 2011;  
Chapter 4.2.1:94-101<sup>7</sup>

347 CORAIL<sup>®</sup> Stems were implanted in 320 patients between July 1986 and December 1990. The mean follow up of the cohort is 20.9 years.

Only 12 stems (3%) were revised, and 7 of these were well-fixed stems that were removed to facilitate acetabular revision.

When all causes of stem removal were considered, the CORAIL stem survival in this series was 97.7% at 15 years, 96.8% at 20 years and 96.3% in the 25th year.

At final follow up 83% of patients were classified as having a totally normal hip using the Sedel score. The mean Harris Hip Score was 85.

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

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Schaller G, Black J, Asaad A, Harper N,  
Webb S, Muirhead-Allwood S.  
The Journal of Arthroplasty 30 (2015) 407-410.<sup>8</sup>

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.

**PINNACLE**<sup>®</sup>  
HIP SOLUTIONS

**CORAIL**<sup>®</sup>  
HIP SYSTEM

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

**2,500,000**  
patients.<sup>1</sup>

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

**2,000,000**  
patients.<sup>2</sup>



† 10A\* CORAIL, CORAIL AMT Total Hip System and PINNACLE Cementless Acetabular Cup  
3A\* CORAIL Cemented Total Hip System  
5A\* PINNACLE GRIPTION Acetabular System

In 2015 the CORAIL and CORAIL AMT Total Hip System and the PINNACLE Cementless Acetabular Cup were awarded an ODEP 10A\* ratings by the Orthopaedic Data Evaluation Panel.<sup>3</sup>

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

According to the 2017 AOANJRR annual report, the CORAIL PINNACLE combination is the most implanted combination in cementless total hip replacement across Australia.<sup>4</sup>

Combination	Total	Year 1	Year 5	Year 10
CORAIL, PINNACLE	34,210	1.6% (1.5%-1.8%)	3.1% (2.9%-3.3%)	5.2% (4.6%-5.8%)

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

Based on the 2017 Annual Report, CORAIL PINNACLE was the most implanted combination in total hip replacement across England, Wales, Northern Ireland and the Isle of Man<sup>5,6</sup>

Combination	Implantations	Year 3	Year 5	Year 10
CoC	37,846	1.79% (1.65%-1.93%)	2.40% (2.24%-2.58%)	3.90% (3.48%-4.37%)
CoP	21,533	1.21% (1.05%-1.39%)	1.74% (1.50%-2.00%)	<i>2.78% (2.25%-3.44%)</i>
MoP	48,744	1.37% (1.26%-1.48%)	1.70% (1.57%-1.84%)	3.05% (2.71%-3.43%)

\* blue italics signify that fewer than 250 cases remained at risk at these time points

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## 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.<sup>9</sup>

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.<sup>10</sup>

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)

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THIRTY YEARS  
**CORAIL®**  
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## References

1. TSM Report, CORAIL WW implantations YTD, 1986 - 2016
2. TSM Report, PINNACLE WW implantations YTD, 2001 - 2016.
3. Orthopaedic Data Evaluation Panel. ODEP product ratings. Latest ODEP ratings can be found at [www.odep.org.uk](http://www.odep.org.uk) [Accessed 02/01/2017].
4. Australian Orthopaedic Association National Joint Replacement Registry. Annual Report. Adelaide: AOA; 2017. Available from URL: <https://aoanjrr.sahmri.com/annual-reports-2017>. 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				1 Yr	5 Yrs	10 Yrs
				THR	Femoral	Acetabular	Other			
Corail	Pinnacle	942	34210	82	314	155	391	1.6 (1.5, 1.8)	3.1 (2.9, 3.3)	5.2 (4.6, 5.8)

5. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 14th Annual Report, 2017. Table 3.8. Available from [www.njrreports.org.uk](http://www.njrreports.org.uk)
6. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 14th Annual Report, 2017. Table 3.9. Available from [www.njrreports.org.uk](http://www.njrreports.org.uk)
7. Vidalain JP. 25-year ARTRO Results: A Special Vintage from the Old World. The CORAIL Hip System: A Practical approach based on 25 years of experience. 2011;Chapter 4.2.1:94-101
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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