

CORAIL[®]
HIP SYSTEM



CORAIL[®] Hip System

Clinical Summary





CORAIL®

HIP SYSTEM

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.

PINNACLE[®]

HIP SOLUTIONS

Since its launch in 2000, the PINNACLE[®] Acetabular Cup System has been provided to over

3,400,000
patients.¹



7A* 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

2,500,000
patients.²



7A 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 2019 AOANJRR annual report, the CORAIL PINNACLE combination is the most implanted combination in cementless total hip replacement across Australia.⁴

Combination	Implantations	Year 5	Year 10	Year 15
CORAIL, PINNACLE	47,247	3.3% (3.1-3.5)	5.3% (5.0-5.7)	6.8% (6.0-7.8)

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

Based on the 2019 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 5	Year 10	Year 13
CoC	41,769	2.44% (2.29-2.60)	3.94% (3.68-4.23)	4.87% (4.31-5.49)
CoP	34,002	1.58% (1.42-1.77)	2.88% (2.39-3.48)	<i>3.13% (2.55-3.83)</i>
MoP	60,875	1.59% (1.49-1.71)	2.97% (2.72-3.23)	4.07% (3.56-4.64)

Blue italics signify that fewer than 250 cases remained at risk at these time points. The numbers in brackets represent the 95% confidence interval around the cumulative revision rate estimate.

CORAIL[®]

HIP SYSTEM



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. Royalty COE Report, CORAIL WW implantations YTD, 2000 - 2019.
2. Royalty COE Report, PINNACLE WW implantations YTD, 2000 - 2019.
3. Orthopaedic Data Evaluation Panel. ODEP product ratings. Latest ODEP ratings can be found at www.odep.org.uk [Accessed January 2020].
4. Australian Orthopaedic Association National Joint Replacement Registry. Annual Report. Adelaide: AOA; 2019. Available from URL: <https://aoanjrr.sahmri.com/annual-reports-2019>. Extracted from Table HT12.

Table HT12 Cumulative Percent Revision of Primary Total Conventional Hip Replacement with Cementless Fixation by Prosthesis Combination

Femoral Component	Acetabular Component	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	18 Yrs
CORAIL	PINNACLE	1534	47247	1.7 (1.6, 1.9)	2.7 (2.5, 2.8)	3.3 (3.1, 3.5)	5.3 (5.0, 5.7)	6.8 (6.0, 7.8)	

5. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 16th Annual Report, 2019. Table 3.10. Available from www.njrreports.org.uk
6. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 16th Annual Report, 2019. 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.

This publication is not intended for distribution in the USA.

The third-party trademarks used herein are the trademarks of their respective owners.



Johnson & Johnson Medical Limited. Baird House, 4 Lower Gilmore Bank, Edinburgh, EH3 9QP, United Kingdom. Incorporated and registered in Scotland under company number SC132162.

DePuy Orthopaedics, Inc.
700 Orthopaedic Drive
Warsaw, IN 46582
USA
Tel: +1 (800) 366 8143
Fax: +1 (800) 669 2530

DePuy International Ltd
St Anthony's Road
Leeds LS11 8DT
England
Tel: +44 (0)113 270 0461

DePuy (Ireland)
Loughbeg
Ringaskiddy
Co. Cork
Ireland
Tel: +353 21 4914 000
Fax: +353 21 4914 199

jnmedicaldevices.com