

Whichever fixation option is chosen in Total Hip Replacement, DePuy Synthes can provide a solution supported by good results in the NJR.



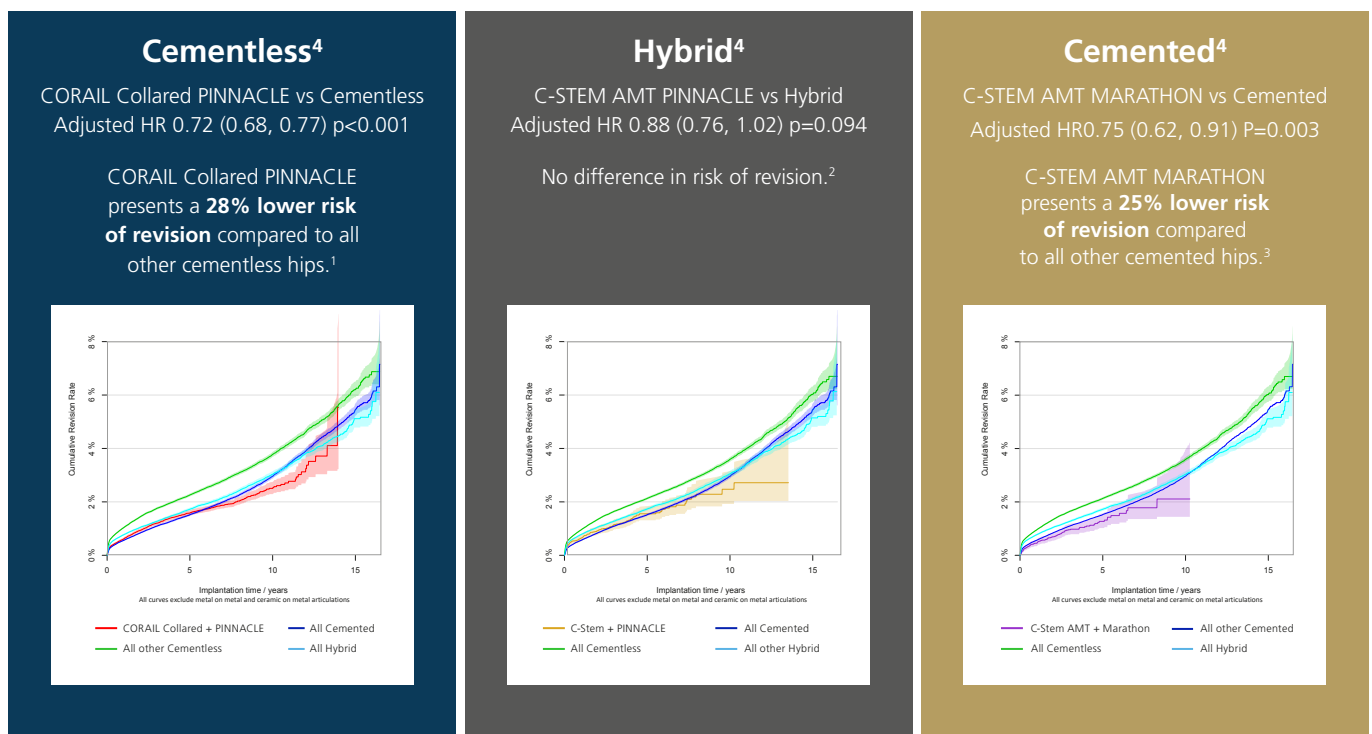
What is your **Fixation Choice** in Total Hip Replacement?

Whatever your preferred fixation option is, DePuy Synthes can provide a solution supported by strong results in the NJR.

The NJR has produced new reports analyzing the performance of three DePuy Synthes Constructs, specifically:

- A report detailing 81,685 CORAIL® Collared PINNACLE® Cementless implantations (mean age 66.7, 40.3% male).¹
- A report detailing 16,782 C-STEM™ AMT PINNACLE® Hybrid implantations (mean age 70.6, 37.5% male).²
- A report detailing 12,150 C-STEM AMT MARATHON™ Cemented implantations (mean age 74.8, 32.5% male).³

This analysis was commissioned by DePuy Synthes, but conducted and validated by the NJR. All Metal-on-Metal were excluded. All reports can be accessed at <http://www.corailPINNACLE.net/supporting-evidence/overview>.



Key Messages:

- Patients receiving a CORAIL Collared PINNACLE Cementless Construct are 28% less likely to be revised when compared to all other cementless hips on the NJR (HR 0.72 (0.68, 0.77) p<0.001).¹
- Patients receiving a C-STEM AMT MARATHON Cemented Construct are 25% less likely to be revised when compared to all other cemented hips on the NJR (HR 0.75 (0.62, 0.91) P=0.003).³
- The C-STEM AMT PINNACLE Hybrid Construct shows no difference in risk of revision when compared to the comparative class (all other Hybrid Hips).²

Additional analysis has been performed on the following three DePuy Synthes Constructs.



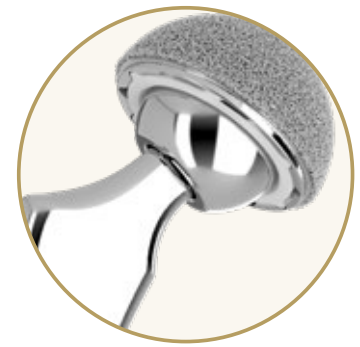
CORAIL Collared PINNACLE Hip System

DePuy Synthes Cementless Solution



C-STEM AMT Stem MARATHON Cemented Cup

DePuy Synthes Cemented Solution



C-STEM AMT Stem PINNACLE Cup

DePuy Synthes Hybrid Solution

- For each of the 4 patient groups (<55, 55-64, 65-74, ≥75 years old) the cumulative revision rate (CRR) has been extracted and compared with the relevant class, representing all other constructs registered in NJR using that specific fixation type, at the highest available timepoint.
- Across all patient age-groups, each DePuy Synthes construct demonstrates CRR estimates at least equivalent to the class comparator as provided by the NJR.⁴ In particular, based on analysis of the point estimate and confidence intervals at 10 Years, it appears that the CORAIL Collared PINNACLE cementless construct performs statistically better than the class comparator for patients aged 55-64, 65-74 and 75 and older.⁵

Patient Age	<55	55-64	65-74	≥75
Cementless Fixation	Cementless Class at 10 Years 4.58% (4.33% - 4.84%)	Cementless Class at 10 Years 3.76% (3.59% - 3.93%)	Cementless Class at 10 Years 3.26% (3.12% - 3.41%)	Cementless Class at 10 Years 3.40% (3.19% - 3.61%)
	CORAIL Collared PINNACLE at 10 Years 4.35% (3.61% - 5.28%)	CORAIL Collared PINNACLE at 10 Years 2.70% (2.28% - 3.19%)	CORAIL Collared PINNACLE at 10 Years 2.03% (1.68% - 2.45%)	CORAIL Collared PINNACLE at 10 Years 2.13% (1.70% - 2.82%)
Cemented Fixation	Cemented Class at 5 Years 2.31% (2.01% - 2.63%)	Cemented Class at 8 Years 2.67% (2.48% - 2.88%)	Cemented Class at 9 Years 2.75% (2.63% - 2.87%)	Cemented Class at 8 Years 1.95% (1.86% - 2.03%)
	C-STEM AMT MARATHON at 5 Years 1.59% (0.48% - 4.70%)	C-STEM AMT MARATHON at 8 Years 2.30% (1.28 - 5.30%)	C-STEM AMT MARATHON at 9 Years 1.45% (0.90% - 3.00%)	C-STEM AMT MARATHON at 8 Years 1.71% (1.06% - 3.39%)
Hybrid Fixation	Hybrid Class at 9 Years 3.59% (3.22% - 3.97%)	Hybrid Class at 10 Years 3.29% (3.05% - 3.55%)	Hybrid Class at 10 Years 3.02% (2.84% - 3.21%)	Hybrid Class at 10 Years 2.60% (2.41% - 2.81%)
	C-STEM AMT PINNACLE at 9 Years 3.23% (1.43% - 6.73%)	C-STEM AMT PINNACLE at 10 Years 3.68% (2.29% - 6.01%)	C-STEM AMT PINNACLE at 10 Years 2.30% (1.44% - 3.50%)	C-STEM AMT PINNACLE at 10 Years 2.03% (1.33% - 3.85%)

Cumulative Revision Rate comparison between the DePuy Synthes construct (all bearings, excluding MoM) and the relevant class, at the highest available time point.⁵

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References

1. NJR. Bespoke Report: CORAIL Collared PINNACLE vs. All other Cementless hips. NJR 2019. Report can be accessed at <http://corailpinnacle.net/supporting-evidence/overview>
2. NJR. Bespoke Report: C-STEM AMT PINNACLE vs. All other Hybrid hips. NJR 2019. Report can be accessed at <http://corailpinnacle.net/supporting-evidence/overview>
3. NJR. Bespoke Report: C-STEM AMT MARATHON vs. All other Cemented hips. NJR 2019. Report can be accessed at <http://corailpinnacle.net/supporting-evidence/overview>
4. NJR. Bespoke Report: Selected DePuy hips vs all others in NJR. Report can be accessed at <http://corailpinnacle.net/supporting-evidence/overview>
5. NJR Bespoke Report: CRR for selected implant combinations for different age groups. NJR 2019. Report can be accessed at <http://corailpinnacle.net/supporting-evidence/overview>

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