

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

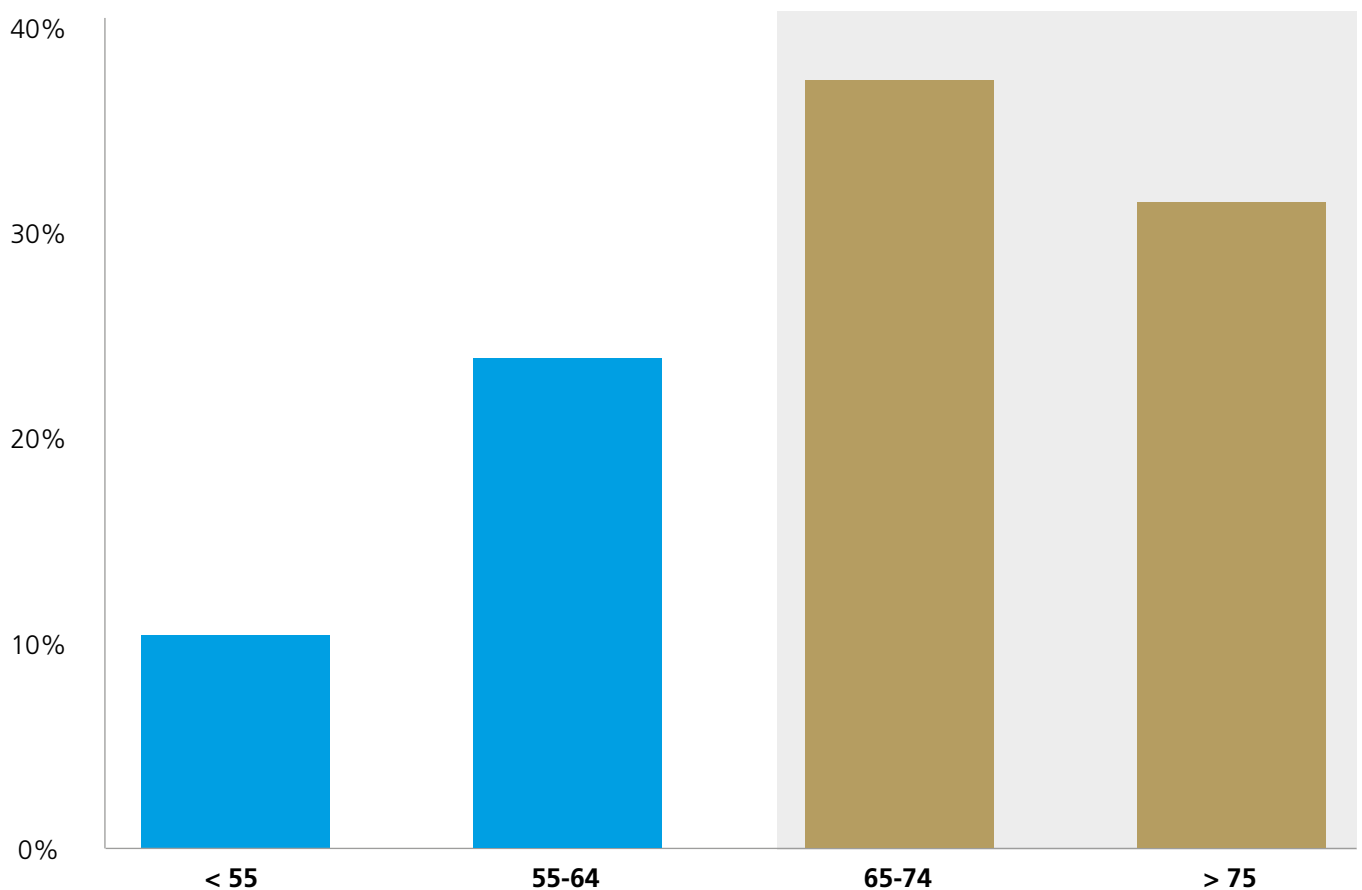


According to NJR, a specific fixation type can not be identified as the best performing solution for a specific patient class.<sup>1</sup>

Patient Age	<55	55-64	65-74	>75
Cementless Fixation	4.71% (4.40%–5.02%)	3.97% (3.77%–4.18%)	3.45% (3.27%–3.63%)	3.42% (3.17%–3.68%)
Cemented Fixation	4.89% (4.21%–5.62%)	3.77% (3.47%–4.09%)	3.06% (2.91%–3.21%)	2.35% (2.23%–2.48%)
Hybrid Fixation	4.02% (3.54%–4.55%)	3.25% (2.97%–3.54%)	3.13% (2.91%–3.35%)	2.67% (2.44%–2.92%)
Reverse Hybrid	4.92% (3.26%–7.03%)	4.34% (3.41%–5.47%)	3.64% (2.92%–4.45%)	3.16% (2.41%–4.07%)

Cumulative Revision Rates at 10 years (NJR 2018)

2/3 of patients who have received a THR in the UK are older than 65 years of age.<sup>2</sup>



THR Patient Age Distribution (NJR 2018)<sup>2</sup>

# Key Messages

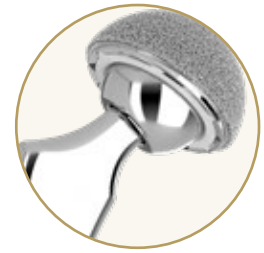
Three DePuy Synthes Hip Constructs have been investigated in a recent analysis performed by the NJR.



**CORAIL 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 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 cumulative revision rates at least equivalent to the class comparator as provided by the NJR.<sup>1</sup> In particular, based on analysis of the point estimate on confidence intervals at 10 Years, it appears that CORAIL PINNACLE cementless construct performs statistically better than the class comparator for patients aged 55-64 and 65-74.<sup>1</sup>

Patient Age	<55	55-64	65-74	>75
Cementless Fixation	Cementless Class at 10 Years 4.71% (4.40%-5.02%)	Cementless Class at 10 Years 3.79% (3.77-4.18%)	Cementless Class at 10 Years 3.45% (3.27%-3.63%)	Cementless Class at 10 Years 3.42% (3.17%-3.68%)
	<b>CORAIL PINNACLE at 10 Years</b> 5.21% (4.64%-5.88%)	<b>CORAIL PINNACLE at 10 Years</b> 3.34% (3.01%-3.70%)	<b>CORAIL PINNACLE at 10 Years</b> 2.84% (2.52%-3.18%)	<b>CORAIL PINNACLE at 10 Years</b> 3.12% (2.58%-3.72%)
Cemented Fixation	Cemented Class at 4 Years 1.96% (1.67%-2.27%)	Cemented Class at 6 Years 2.04% (1.87%-2.22%)	Cemented Class at 8 Years 2.37% (2.25%-2.48%)	Cemented Class at 7 Years 1.71% (1.63%-1.80%)
	<b>C-STEM AMT MARATHON at 4 Years</b> 1.12% (0.16%-4.34%)	<b>C-STEM AMT MARATHON at 6 Years</b> 2.02% (0.92-4.18%)	<b>C-STEM AMT MARATHON at 8 Years</b> 1.15% (0.72%-3.17%)	<b>C-STEM AMT MARATHON at 7 Years</b> 1.57% (0.88%-3.26%)
Hybrid Fixation	Hybrid Class at 7 Years 2.83% (2.51%-3.18%)	Hybrid Class at 10 Years 3.25% (2.97%-3.54%)	Hybrid Class at 10 Years 3.13% (2.91-3.35%)	Hybrid Class at 9 Years 2.44% (2.25%-2.65%)
	<b>C-STEM AMT PINNACLE at 7 Years</b> 1.78% (0.70%-4.37%)	<b>C-STEM AMT PINNACLE at 10 Years</b> 3.50% (1.97%-6.93%)	<b>C-STEM AMT PINNACLE at 10 Years</b> 2.95% (1.66%-4.80%)	<b>C-STEM AMT PINNACLE at 9 Years</b> 2.25% (1.21%-4.55%)

Cumulative Revision Rate comparison between the DePuy Synthes construct (all bearings, excluding MoM) and the relevant class, at the highest available time point.<sup>1</sup>

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

## References

1. NJR Bespoke Report: CRR for selected implant combinations for different age groups. DSEM/JRC/0518/1038. Report can be accessed at <http://www.corailpinnacle.net/supporting-evidence/overview/>
2. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 14th Annual Report, 2017. Table 3.7. Available from [www.njrreports.org.uk](http://www.njrreports.org.uk).

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