

Bespoke Implant Report for:

DePuy

CRR for selected implant combinations for different age groups

Comprising PRIMARY hips implanted up to: 07 March 2021
NJR Database extract: 06 May 2021

Produced on: 22 June 2021
Licensed for use until: 22 June 2023

Contents

Corail Collared - Pinnacle	2
C-Stem AMT - Pinnacle	2
C-Stem AMT - Marathon	3
All cementless hips	3
All Hybrid Hips	4
All Cemented Hips	4
Age < 55 KM Plot	5
Age 55 - 64 KM Plot	6
Age 65 - 74 KM Plot	7
Age >= 75 KM Plot	8

This report has been produced by the National Joint Registry of England, Wales and Northern Ireland (NJR). It summarises usage and outcomes associated with DePuy C-Stem AMT - Pinnacle vs. All other Hybrid hips used in primary hips, based on data collected by the NJR and PROMs data collected by NHS Digital.

This report is subject to the National Joint Registry Supplier Feedback Terms and Conditions Use. In particular, this analysis must not be released to any third party, unless directly employed by the Supplier, without written permission of the the Healthcare Quality Improvement Partnership, with the exception of submissions to approved Regulatory Authorities.

All groups exclude metal-on-metal and ceramic-on-metal bearings

Cumulative Revision Rate

Group 1: Corail Collared - Pinnacle

Period /years	Age < 55	Age 55-64	Age 65-74	Age >= 75
0	-	-	-	-
1	0.73% (0.60% - 0.87%)	0.56% (0.47% - 0.65%)	0.50% (0.43% - 0.57%)	0.71% (0.61% - 0.81%)
2	1.20% (1.03% - 1.39%)	0.88% (0.77% - 1.00%)	0.74% (0.66% - 0.83%)	0.90% (0.79% - 1.02%)
3	1.76% (1.54% - 2.00%)	1.14% (1.01% - 1.28%)	0.94% (0.84% - 1.05%)	1.04% (0.92% - 1.18%)
4	2.26% (2.00% - 2.54%)	1.35% (1.20% - 1.50%)	1.08% (0.97% - 1.19%)	1.13% (1.00% - 1.27%)
5	2.50% (2.22% - 2.80%)	1.50% (1.34% - 1.67%)	1.19% (1.07% - 1.31%)	1.28% (1.13% - 1.43%)
6	2.72% (2.41% - 3.05%)	1.65% (1.47% - 1.83%)	1.31% (1.18% - 1.45%)	1.38% (1.22% - 1.55%)
7	2.89% (2.56% - 3.24%)	1.83% (1.64% - 2.04%)	1.41% (1.27% - 1.56%)	1.49% (1.31% - 1.69%)
8	3.17% (2.80% - 3.57%)	1.95% (1.74% - 2.18%)	1.51% (1.36% - 1.68%)	1.67% (1.46% - 1.90%)
9	3.55% (3.11% - 4.01%)	2.15% (1.91% - 2.41%)	1.65% (1.46% - 1.84%)	1.91% (1.64% - 2.22%)
10	3.98% (3.46% - 4.57%)	2.33% (2.04% - 2.63%)	1.79% (1.57% - 2.03%)	2.01% (1.71% - 2.42%)
11	4.27% (3.67% - 4.99%)	2.58% (2.23% - 3.00%)	1.96% (1.68% - 2.26%)	2.52% (1.99% - 3.14%)
12	5.10% (4.15% - 6.14%)	2.69% (2.29% - 3.16%)	2.15% (1.78% - 2.61%)	2.83% (2.09% - 3.87%)
13	5.10% (4.15% - 6.51%)	2.98% (2.45% - 3.68%)	2.38% (1.85% - 3.05%)	2.83% (2.09% - 4.58%)
14	5.71% (4.32% - 7.86%)	3.38% (2.53% - 4.37%)	2.38% (1.85% - 3.40%)	
15		3.38% (2.53% - 5.02%)		

Group 2: C-Stem AMT - Pinnacle

Period /years	Age < 55	Age 55-64	Age 65-74	Age >= 75
0	-	-	-	-
1	0.81% (0.45% - 1.29%)	0.48% (0.30% - 0.72%)	0.63% (0.48% - 0.81%)	0.75% (0.58% - 0.94%)
2	1.15% (0.70% - 1.74%)	0.77% (0.51% - 1.09%)	0.96% (0.76% - 1.18%)	1.03% (0.82% - 1.26%)
3	1.36% (0.85% - 2.07%)	0.91% (0.62% - 1.26%)	1.06% (0.85% - 1.30%)	1.29% (1.04% - 1.56%)
4	1.53% (0.95% - 2.26%)	1.11% (0.76% - 1.53%)	1.22% (0.98% - 1.50%)	1.49% (1.20% - 1.81%)
5	1.88% (1.18% - 2.87%)	1.36% (0.94% - 1.89%)	1.38% (1.11% - 1.71%)	1.61% (1.30% - 1.97%)
6	1.88% (1.18% - 3.06%)	1.61% (1.10% - 2.23%)	1.59% (1.26% - 1.96%)	1.73% (1.38% - 2.18%)
7	1.88% (1.18% - 3.31%)	1.95% (1.31% - 2.76%)	1.65% (1.31% - 2.11%)	1.86% (1.45% - 2.34%)
8	2.50% (1.38% - 4.09%)	2.67% (1.76% - 3.80%)	1.86% (1.43% - 2.37%)	2.18% (1.63% - 2.95%)
9	2.50% (1.38% - 4.33%)	2.67% (1.76% - 3.98%)	2.02% (1.52% - 2.63%)	2.18% (1.63% - 3.22%)
10	2.50% (1.38% - 4.74%)	2.67% (1.76% - 4.18%)	2.25% (1.63% - 3.06%)	2.18% (1.63% - 3.58%)
11	2.50% (1.38% - 5.20%)	2.67% (1.76% - 4.44%)	2.55% (1.77% - 3.62%)	2.18% (1.63% - 4.02%)
12		2.67% (1.76% - 4.71%)	2.55% (1.77% - 3.89%)	2.18% (1.63% - 4.49%)
13		2.67% (1.76% - 4.94%)	2.55% (1.77% - 4.16%)	
14		2.67% (1.76% - 5.46%)	2.55% (1.77% - 4.80%)	
15				

Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where more than 40 remain at risk

Endpoint: Revision for any reason

Cumulative Revision Rate

Group 3: C-Stem AMT - Marathon

Period /years	Age < 55	Age 55-64	Age 65-74	Age >= 75
0	-	-	-	-
1	0.60% (0.15% - 1.48%)	0.86% (0.46% - 1.39%)	0.60% (0.42% - 0.83%)	0.41% (0.29% - 0.56%)
2	0.60% (0.15% - 1.58%)	1.18% (0.68% - 1.82%)	0.80% (0.58% - 1.06%)	0.65% (0.49% - 0.84%)
3	1.11% (0.34% - 2.45%)	1.69% (1.04% - 2.51%)	1.10% (0.82% - 1.43%)	0.83% (0.64% - 1.05%)
4	1.86% (0.65% - 3.81%)	1.69% (1.04% - 2.60%)	1.37% (1.04% - 1.76%)	0.93% (0.72% - 1.18%)
5	1.86% (0.65% - 4.03%)	2.27% (1.43% - 3.33%)	1.52% (1.16% - 1.96%)	1.01% (0.78% - 1.30%)
6	1.86% (0.65% - 4.50%)	2.49% (1.59% - 3.83%)	1.60% (1.22% - 2.07%)	1.18% (0.90% - 1.56%)
7		2.49% (1.59% - 4.11%)	1.72% (1.29% - 2.29%)	1.27% (0.95% - 1.81%)
8		2.49% (1.59% - 4.42%)	1.72% (1.29% - 2.45%)	1.27% (0.95% - 2.03%)
9		2.49% (1.59% - 4.96%)	1.72% (1.29% - 2.65%)	1.73% (0.98% - 2.97%)
10			1.72% (1.29% - 3.04%)	1.73% (0.98% - 3.65%)
11			4.50% (1.84% - 8.48%)	
12				
13				
14				
15				

Group 4: All cementless hips

Period /years	Age < 55	Age 55-64	Age 65-74	Age >= 75
0	-	-	-	-
1	0.90% (0.84% - 0.97%)	0.82% (0.77% - 0.87%)	0.87% (0.83% - 0.92%)	1.23% (1.16% - 1.30%)
2	1.43% (1.35% - 1.52%)	1.22% (1.16% - 1.29%)	1.18% (1.13% - 1.24%)	1.51% (1.43% - 1.59%)
3	1.86% (1.76% - 1.96%)	1.54% (1.48% - 1.61%)	1.43% (1.37% - 1.49%)	1.69% (1.61% - 1.78%)
4	2.22% (2.11% - 2.33%)	1.79% (1.71% - 1.87%)	1.62% (1.55% - 1.68%)	1.87% (1.78% - 1.96%)
5	2.57% (2.45% - 2.69%)	2.02% (1.94% - 2.10%)	1.81% (1.74% - 1.88%)	2.03% (1.94% - 2.13%)
6	2.92% (2.79% - 3.06%)	2.25% (2.16% - 2.34%)	2.02% (1.94% - 2.09%)	2.22% (2.11% - 2.32%)
7	3.24% (3.09% - 3.39%)	2.54% (2.44% - 2.64%)	2.17% (2.09% - 2.25%)	2.42% (2.30% - 2.53%)
8	3.56% (3.40% - 3.72%)	2.80% (2.70% - 2.91%)	2.41% (2.32% - 2.50%)	2.66% (2.53% - 2.78%)
9	3.83% (3.66% - 4.01%)	3.13% (3.01% - 3.25%)	2.65% (2.55% - 2.75%)	2.89% (2.75% - 3.04%)
10	4.15% (3.96% - 4.34%)	3.42% (3.28% - 3.55%)	2.96% (2.85% - 3.08%)	3.16% (3.00% - 3.33%)
11	4.53% (4.31% - 4.75%)	3.75% (3.60% - 3.90%)	3.29% (3.16% - 3.42%)	3.42% (3.23% - 3.61%)
12	4.94% (4.68% - 5.20%)	4.15% (3.97% - 4.32%)	3.71% (3.56% - 3.87%)	3.72% (3.49% - 3.96%)
13	5.39% (5.08% - 5.70%)	4.50% (4.30% - 4.71%)	4.12% (3.93% - 4.31%)	4.18% (3.87% - 4.50%)
14	5.95% (5.57% - 6.34%)	5.05% (4.80% - 5.30%)	4.56% (4.32% - 4.79%)	4.45% (4.08% - 4.84%)
15	6.26% (5.83% - 6.74%)	5.68% (5.36% - 6.02%)	4.89% (4.61% - 5.19%)	5.03% (4.48% - 5.65%)

5.03% (4.48% - 6.04%)

6.33% (4.69% - 8.94%)

Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where more than 40 remain at risk

Endpoint: Revision for any reason

Cumulative Revision Rate

Group 5: All Hybrid Hips

Period /years	Age < 55	Age 55-64	Age 65-74	Age >= 75
0	-	-	-	-
1	0.80% (0.70% - 0.91%)	0.67% (0.60% - 0.74%)	0.78% (0.73% - 0.84%)	0.81% (0.75% - 0.86%)
2	1.16% (1.04% - 1.29%)	0.97% (0.89% - 1.05%)	1.05% (0.99% - 1.11%)	1.03% (0.97% - 1.09%)
3	1.41% (1.26% - 1.56%)	1.20% (1.11% - 1.29%)	1.25% (1.18% - 1.32%)	1.23% (1.16% - 1.30%)
4	1.62% (1.47% - 1.79%)	1.44% (1.34% - 1.55%)	1.44% (1.36% - 1.51%)	1.45% (1.37% - 1.53%)
5	1.95% (1.77% - 2.14%)	1.64% (1.53% - 1.76%)	1.65% (1.57% - 1.74%)	1.61% (1.53% - 1.70%)
6	2.32% (2.11% - 2.53%)	1.87% (1.74% - 2.00%)	1.82% (1.73% - 1.92%)	1.77% (1.68% - 1.87%)
7	2.66% (2.43% - 2.91%)	2.14% (2.00% - 2.29%)	2.03% (1.93% - 2.13%)	1.92% (1.82% - 2.03%)
8	2.94% (2.68% - 3.21%)	2.44% (2.28% - 2.60%)	2.28% (2.17% - 2.40%)	2.12% (2.00% - 2.24%)
9	3.34% (3.05% - 3.65%)	2.76% (2.58% - 2.95%)	2.53% (2.40% - 2.66%)	2.32% (2.19% - 2.46%)
10	3.59% (3.27% - 3.92%)	3.05% (2.85% - 3.26%)	2.86% (2.71% - 3.02%)	2.49% (2.34% - 2.65%)
11	4.00% (3.63% - 4.39%)	3.37% (3.14% - 3.60%)	3.22% (3.05% - 3.40%)	2.72% (2.53% - 2.91%)
12	4.50% (4.07% - 4.95%)	3.79% (3.53% - 4.06%)	3.58% (3.37% - 3.78%)	2.99% (2.77% - 3.23%)
13	5.06% (4.56% - 5.60%)	4.12% (3.83% - 4.42%)	3.77% (3.55% - 3.99%)	3.17% (2.90% - 3.45%)
14	5.61% (5.03% - 6.25%)	4.40% (4.08% - 4.73%)	4.10% (3.84% - 4.36%)	3.26% (2.97% - 3.63%)
15	6.34% (5.62% - 7.12%)	4.82% (4.44% - 5.23%)	4.35% (4.05% - 4.66%)	3.36% (3.02% - 3.78%)

Group 6: All cemented Hips

Period /years	Age < 55	Age 55-64	Age 65-74	Age >= 75
0	-	-	-	-
1	0.70% (0.57% - 0.84%)	0.55% (0.48% - 0.62%)	0.52% (0.49% - 0.56%)	0.57% (0.54% - 0.60%)
2	1.18% (1.00% - 1.37%)	0.90% (0.81% - 0.99%)	0.80% (0.75% - 0.85%)	0.80% (0.77% - 0.84%)
3	1.57% (1.36% - 1.80%)	1.20% (1.10% - 1.30%)	1.09% (1.03% - 1.14%)	1.00% (0.96% - 1.05%)
4	1.94% (1.70% - 2.19%)	1.44% (1.33% - 1.55%)	1.31% (1.25% - 1.38%)	1.18% (1.13% - 1.23%)
5	2.24% (1.98% - 2.52%)	1.75% (1.62% - 1.88%)	1.55% (1.48% - 1.61%)	1.36% (1.30% - 1.41%)
6	2.72% (2.42% - 3.04%)	2.02% (1.89% - 2.17%)	1.80% (1.72% - 1.87%)	1.53% (1.47% - 1.59%)
7	3.04% (2.72% - 3.39%)	2.33% (2.18% - 2.49%)	2.04% (1.96% - 2.13%)	1.73% (1.66% - 1.80%)
8	3.48% (3.11% - 3.87%)	2.70% (2.53% - 2.87%)	2.35% (2.26% - 2.44%)	1.91% (1.83% - 1.98%)
9	3.97% (3.56% - 4.41%)	3.09% (2.90% - 3.29%)	2.69% (2.59% - 2.80%)	2.10% (2.02% - 2.18%)
10	4.47% (4.00% - 4.97%)	3.59% (3.38% - 3.81%)	3.05% (2.94% - 3.17%)	2.32% (2.23% - 2.42%)
11	5.29% (4.73% - 5.87%)	4.14% (3.89% - 4.39%)	3.50% (3.37% - 3.63%)	2.59% (2.48% - 2.70%)
12	6.30% (5.64% - 7.00%)	4.86% (4.57% - 5.15%)	4.01% (3.86% - 4.16%)	2.83% (2.71% - 2.96%)
13	7.00% (6.25% - 7.78%)	5.57% (5.24% - 5.91%)	4.43% (4.26% - 4.60%)	3.02% (2.88% - 3.17%)
14	7.69% (6.86% - 8.60%)	6.29% (5.92% - 6.68%)	4.82% (4.63% - 5.01%)	3.20% (3.04% - 3.37%)
15	8.55% (7.58% - 9.57%)	6.88% (6.46% - 7.32%)	5.33% (5.11% - 5.55%)	3.46% (3.25% - 3.67%)

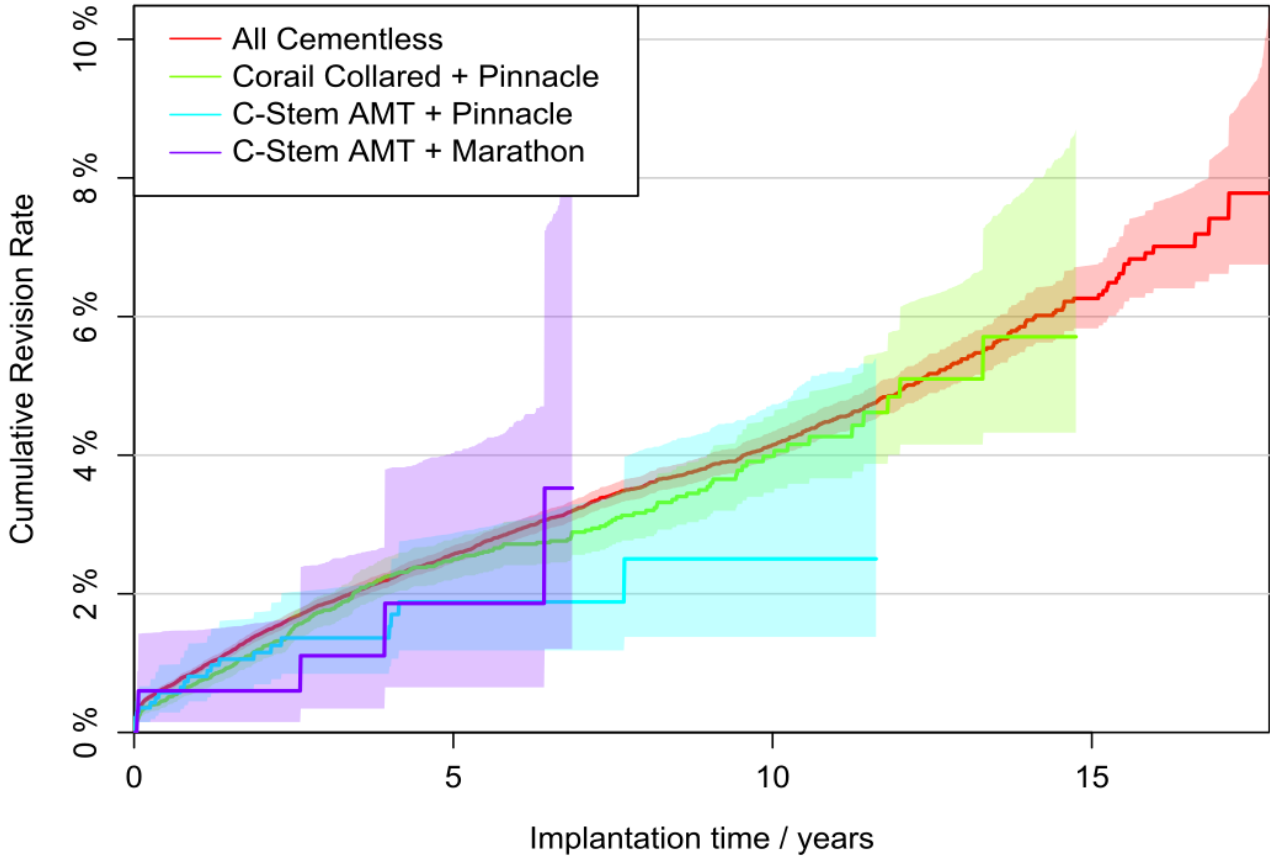
Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where more than 40 remain at risk

Endpoint: Revision for any reason

Cumulative Revision Rate

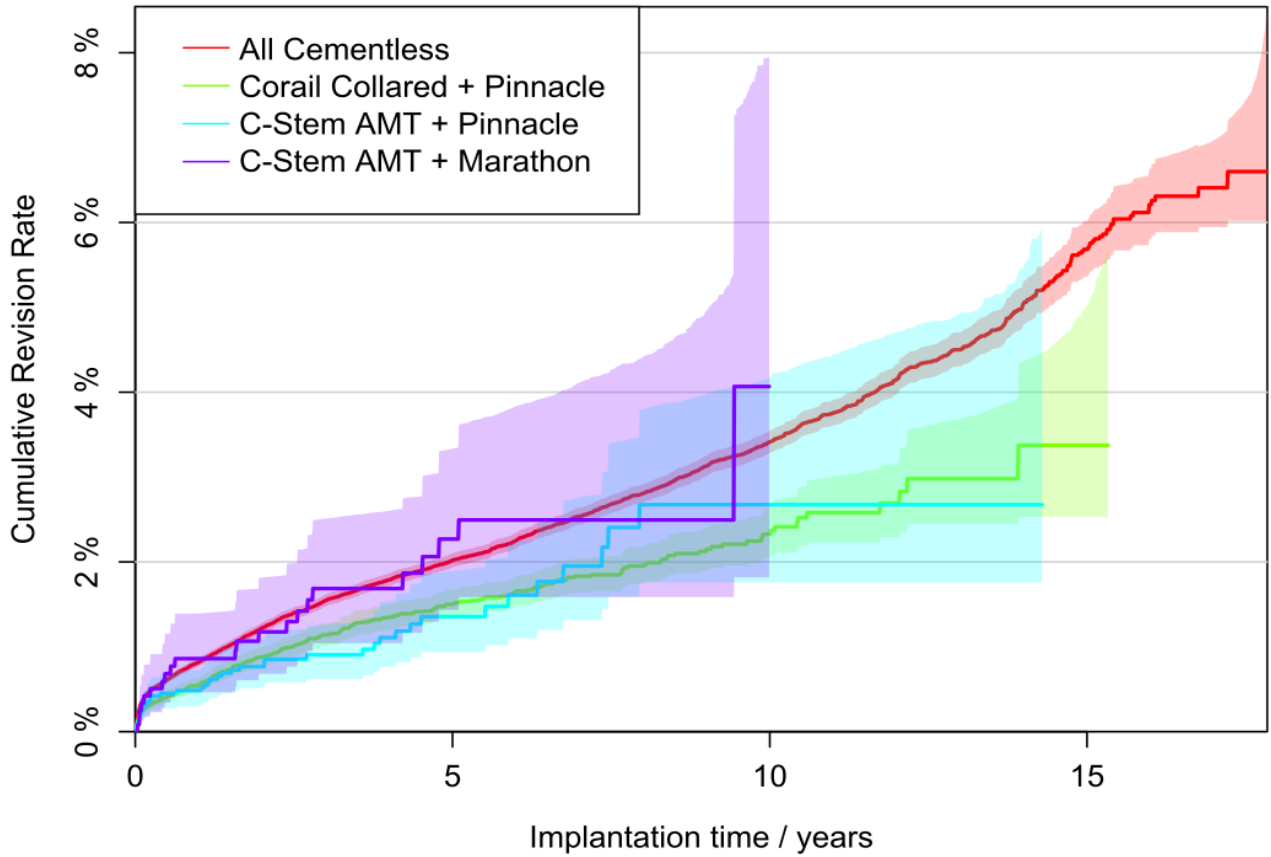
Age < 55



Cumulative revision rate with 95% confidence intervals
Rate is only reported for times where more than 40 remain at risk
Endpoint: Revision for any reason

Cumulative Revision Rate

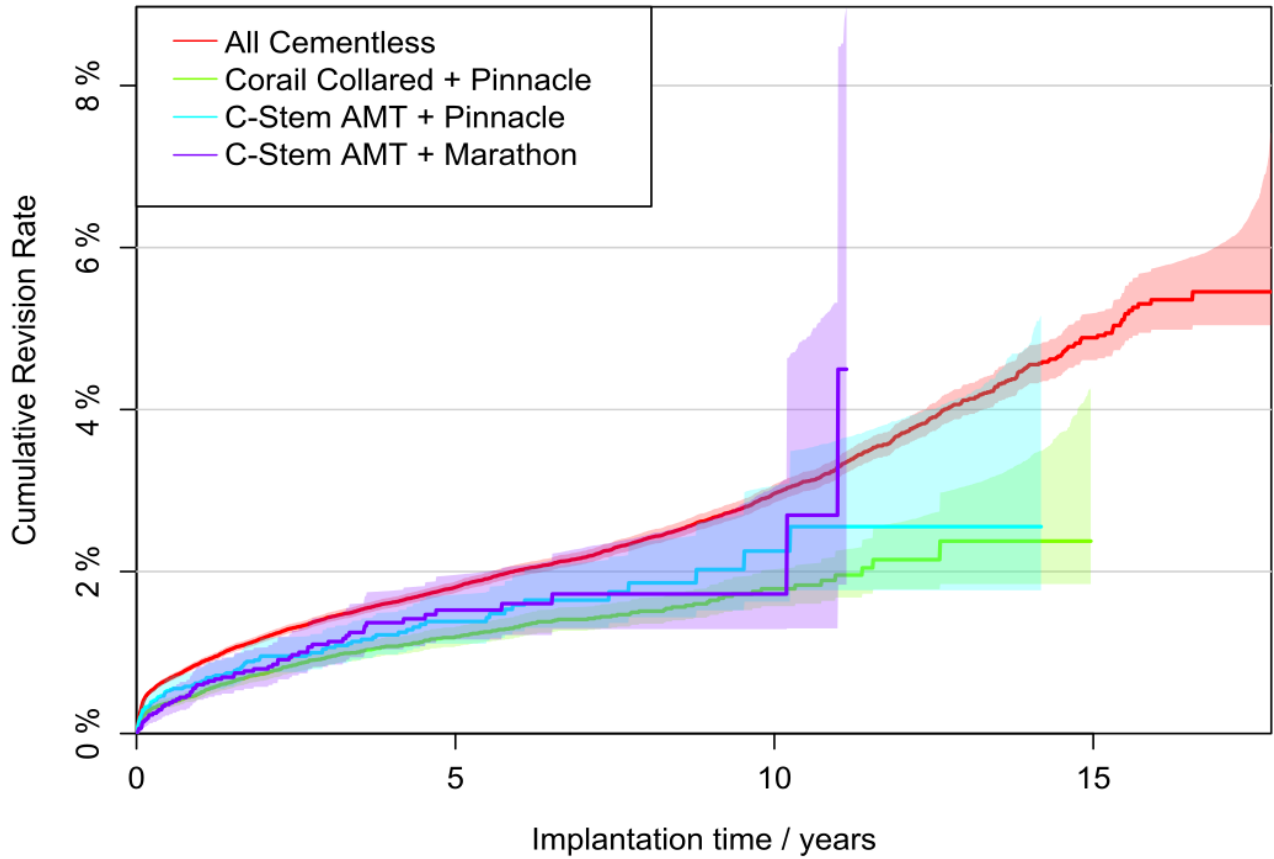
Age 55 - 64



Cumulative revision rate with 95% confidence intervals
Rate is only reported for times where more than 40 remain at risk
Endpoint: Revision for any reason

Cumulative Revision Rate

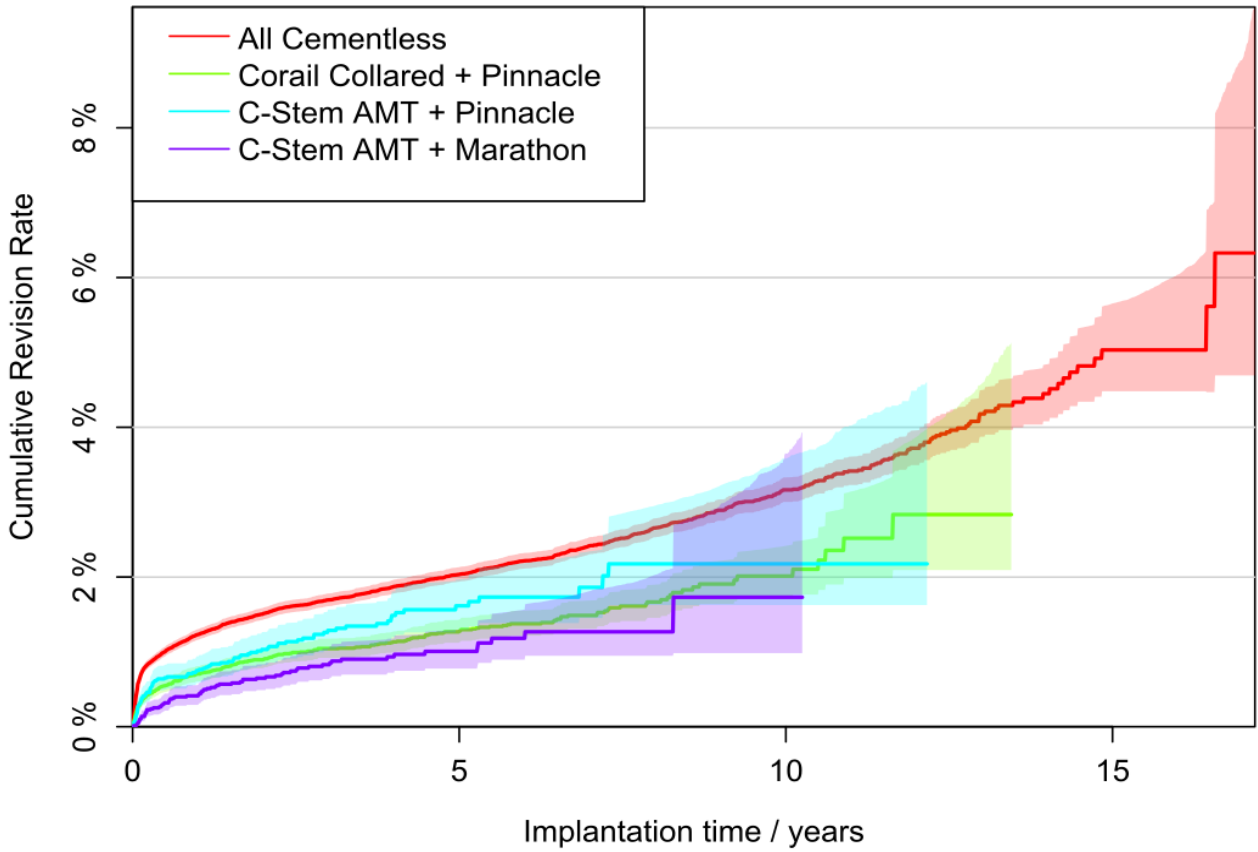
Age 65 - 74



Cumulative revision rate with 95% confidence intervals
Rate is only reported for times where more than 40 remain at risk
Endpoint: Revision for any reason

Cumulative Revision Rate

Age \geq 75



Cumulative revision rate with 95% confidence intervals
Rate is only reported for times where more than 40 remain at risk
Endpoint: Revision for any reason

Disclaimer

Disclaimer

The National Joint Registry (NJR) produces this report through its contractor, Northgate Public Services (UK) Limited (NPS) using data collected, collated and provided by third parties. As a result, neither NJR or NPS takes any responsibility for the accuracy, currency, reliability and correctness of any data used or referred to in this report, and disclaims all warranties in relation to such data, in each case to the maximum extent permitted by legislation.

To the maximum extent permitted by law, neither the NJR or NPS shall have any liability (including but not limited to liability by reason of negligence) for any loss, damage, cost or expense incurred or arising by reason of any person using or relying on the data within this report and whether caused by reason of any error, omission or misrepresentation in the report or otherwise. This report is not to be taken as advice. Third parties using or relying on the data in this report do so at their own risk and will be responsible for making their own assessment and should verify all relevant representations, statements and information with their own professional advisers.

189711-210917 EMEA