

Implant Summary Report for:

Heraeus Medical

Hips using Palacos Antibiotic Cement

Comprising PRIMARY hips implanted up to:
NJR Database extract:

31 December 2025
30 January 2026

Produced on:
Licensed for use until:

23 February 2026
23 February 2027

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This report has been produced by the National Joint Registry (NJR). It summarises usage and outcomes associated with brand(s) Palacos Antibiotic up to the specified dates. Hemiarthroplasties and patients aged less than 18 have been excluded. This analysis is based on data collected by the NJR and PROMs data collected by the NHS for the components listed in Appendix A.

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NJR Recorded Usage

Implant Usage

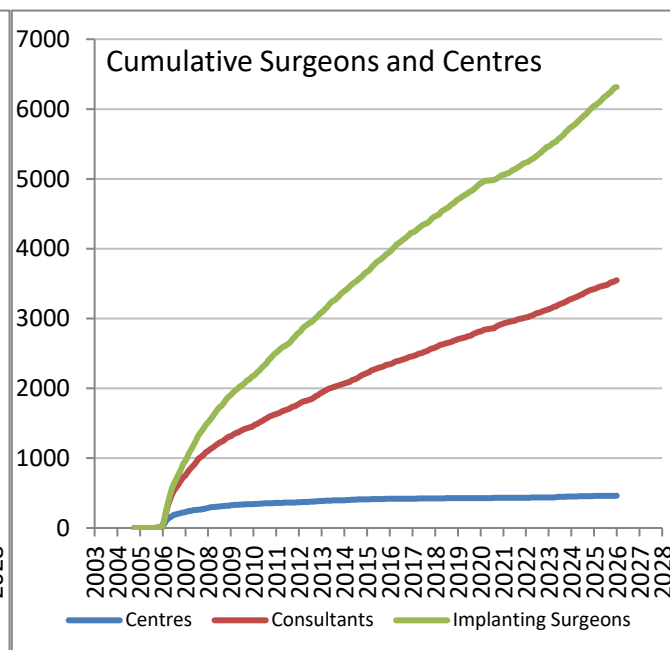
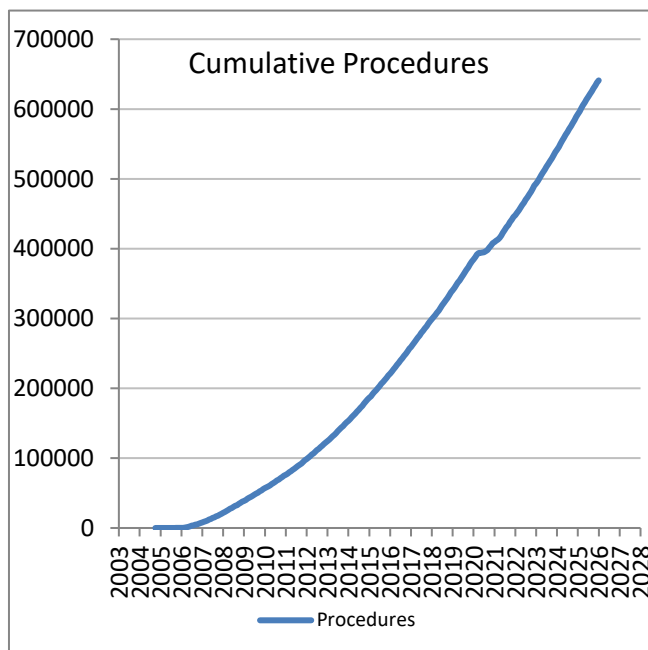
Date of first recorded usage in the NJR: **06 September 2005**

Date of last recorded usage in this dataset: **31 December 2025**

Maximum implantation time: 20.3 years

Mean implantation time: 6.5 years

Totals Recorded in NJR	Cumulative Total
Procedures	641,058
Patients	560,934
Centres	462
Consultants	3,549
Implanting Surgeons	6,313



Current Outcome	Year of implantation														Total	%
	Pre-2014	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025			
Death	77585	11260	10648	9886	8676	7508	6289	2636	3035	2313	1532	749	130	142247	22.2%	
Revised	5708	821	840	821	790	724	691	373	493	465	434	405	281	12846	2.0%	
Unrevised	70257	20573	23493	27530	30138	33222	37027	22208	35060	42338	46323	49683	48113	485965	75.8%	
Total	2E+05	32654	34981	38237	39604	41454	44007	25217	38588	45116	48289	50837	48524	641058	100%	

Patient / Procedure Details

Patient Details

	Hips using Palacos Antibiotic Cement	All other cement brands in NJR	All NJR hip replacement
Total Procedures	641,058	462,995	1,830,950
Total Patients	560,934	409,271	1,501,823
Demographics			
Mean age	71.7	70.6	68.8
< 50	3.2%	4.8%	6.0%
50 – 59	9.6%	11.3%	14.6%
60 – 69	25.2%	25.5%	29.3%
70 – 79	40.9%	38.6%	34.7%
≥ 80	21.1%	19.7%	15.5%
Median BMI	28	28	28
% BMI information available	73.3%	60.1%	68.0%
Underweight (BMI < 18.5)	1.0%	1.1%	0.9%
Normal (18.5 ≤ BMI < 25)	21.9%	22.6%	20.8%
Overweight (25 ≤ BMI < 30)	38.9%	39.4%	38.9%
Obese I (30 ≤ BMI < 35)	25.3%	24.6%	25.8%
Obese II (35 ≤ BMI < 40)	9.7%	9.3%	10.2%
Obese III (BMI ≥ 40)	3.2%	3.0%	3.3%
%Female	64.4%	62.0%	59.9%
%Male	35.6%	38.0%	40.1%
ASA Grades			
P1 - Fit and healthy	9.0%	14.2%	13.3%
P2 - Mild disease not incapacitating	67.9%	64.9%	67.9%
P3 - Incapacitating systemic disease	22.4%	20.2%	18.2%
P4 / P5	0.7%	0.8%	0.6%
Indications			
Osteoarthritis	89.98%	89.92%	91.31%
Inflammatory Arthropathy	1.43%	1.39%	1.29%
Avascular Necrosis	2.78%	2.70%	2.69%
Fractured Neck Of Femur	5.46%	4.85%	3.84%
CDH DDH	1.15%	1.30%	1.64%
Other	2.26%	2.92%	2.32%

Total of indications may exceed total number of implants, since more than one indication can be listed per case.

Revision and Survivorship

Reasons for Revision - all bearing types

Reasons for revision of primary procedures in which the implant was used.

Reason for Revision	Revised [†]	Expected Revisions [*]	Revision Rate Ratio (80% Cred. Int.)	Probability RRR < 1
Unexplained Pain	669	775.85	0.76 - 0.86	> 0.999
Dislocation / Subluxation	3134	3159.31	0.95 - 1.02	0.75
Adverse Soft Tissue Reaction	453	594.97	0.66 - 0.75	> 0.999
Infection	3008	3089.91	0.91 - 0.98	0.99
Aseptic Loosening - Stem	1040	1175.50	0.79 - 0.87	> 0.999
Aseptic Loosening - Socket	2090	2128.90	0.94 - 1.01	0.86
Periprosthetic Fracture Stem	2428	2543.06	0.88 - 0.95	> 0.999
Periprosthetic Fracture Socket	325	343.77	0.80 - 0.98	0.93
Malalignment Stem	271	294.52	0.77 - 0.95	0.97
Malalignment Socket	544	527.41	0.98 - 1.14	0.16
Leg length discrepancy	45	53.42	0.54 - 0.91	0.96
Wear Of Acetabular Component	574	535.51	1.04 - 1.20	0.02
Lysis Stem	328	336.44	0.88 - 1.05	0.71
Lysis Socket	513	483.80	1.02 - 1.17	0.05
Implant Fracture Stem	296	290.92	0.93 - 1.14	0.34
Implant Fracture Ceramic Head	40	43.32	0.65 - 1.13	0.76
Implant Fracture Ceramic Liner	19	16.41	0.86 - 1.86	0.22
Implant Fracture Poly Liner	31	26.36	1.01 - 2.13	0.09
Dissociation of Liner	165	145.79	1.12 - 1.52	0.01
Other / Not recorded	424	449.45	0.84 - 0.98	0.94
Total Revised	12846	13395.33	0.91 - 0.94	> 0.999

† multiple reasons may be listed for one revision procedure

* Based on All NJR Hips with Cement, adjusted for Age group, Sex, Implantation year and Indications

LCI > 100% higher than expected

LCI > 50% higher than expected

LCI > 20% higher than expected



UCI < 1/2 expected

UCI < 2/3 expected

UCI < 5/6 expected



Components Revised	Hips using Palacos Antibiotic Cement		All other cement brands in NJR
Femoral only	3092	24.1%	18.5%
Acetabular only	2651	20.6%	18.9%
Both femoral and acetabular	5330	41.5%	56.5%
Isolated modular liner exchange	39	0.3%	0.1%
Isolated modular head exchange	646	5.0%	2.7%
Head and liner exchange only	931	7.2%	2.7%
No components recorded	157	1.2%	0.7%

Revision and Survivorship

Reasons for Revision - excluding Metal on Metal

Reasons for revision of primary procedures in which the implant was used.

Reason for Revision	Revised [†]	Expected Revisions [*]	Revision Rate Ratio (80% Cred. Int.)	Probability RRR < 1
Unexplained Pain	527	537.65	0.90 - 1.04	0.73
Dislocation / Subluxation	3115	3169.88	0.93 - 1.00	0.92
Adverse Soft Tissue Reaction	177	166.80	0.98 - 1.27	0.15
Infection	2970	3089.62	0.88 - 0.95	> 0.999
Aseptic Loosening - Stem	962	1095.30	0.77 - 0.85	> 0.999
Aseptic Loosening - Socket	2036	2096.32	0.92 - 0.99	0.96
Periprosthetic Fracture Stem	2350	2432.08	0.89 - 0.96	0.993
Periprosthetic Fracture Socket	320	331.56	0.83 - 1.03	0.83
Malalignment Stem	262	280.27	0.78 - 0.97	0.94
Malalignment Socket	513	496.15	0.99 - 1.17	0.14
Leg length discrepancy	45	54.03	0.52 - 0.89	0.97
Wear Of Acetabular Component	566	542.13	1.00 - 1.15	0.10
Lysis Stem	290	290.22	0.91 - 1.10	0.51
Lysis Socket	471	442.28	1.03 - 1.20	0.04
Implant Fracture Stem	292	306.82	0.82 - 1.01	0.88
Implant Fracture Ceramic Head	40	43.32	0.65 - 1.13	0.76
Implant Fracture Ceramic Liner	19	16.41	0.86 - 1.86	0.22
Implant Fracture Poly Liner	31	26.77	0.98 - 2.06	0.11
Dissociation of Liner	163	142.15	1.18 - 1.62	0.005
Other / Not recorded	353	345.14	0.95 - 1.16	0.27
Total Revised	12170	12560.37	0.92 - 0.95	> 0.999

[†] multiple reasons may be listed for one revision procedure

^{*} Based on All NJR Hips with Cement, adjusted for Age group, Sex, Implantation year and Indications

LCI > 100% higher than expected

LCI > 50% higher than expected

LCI > 20% higher than expected



UCI < 1/2 expected

UCI < 2/3 expected

UCI < 5/6 expected

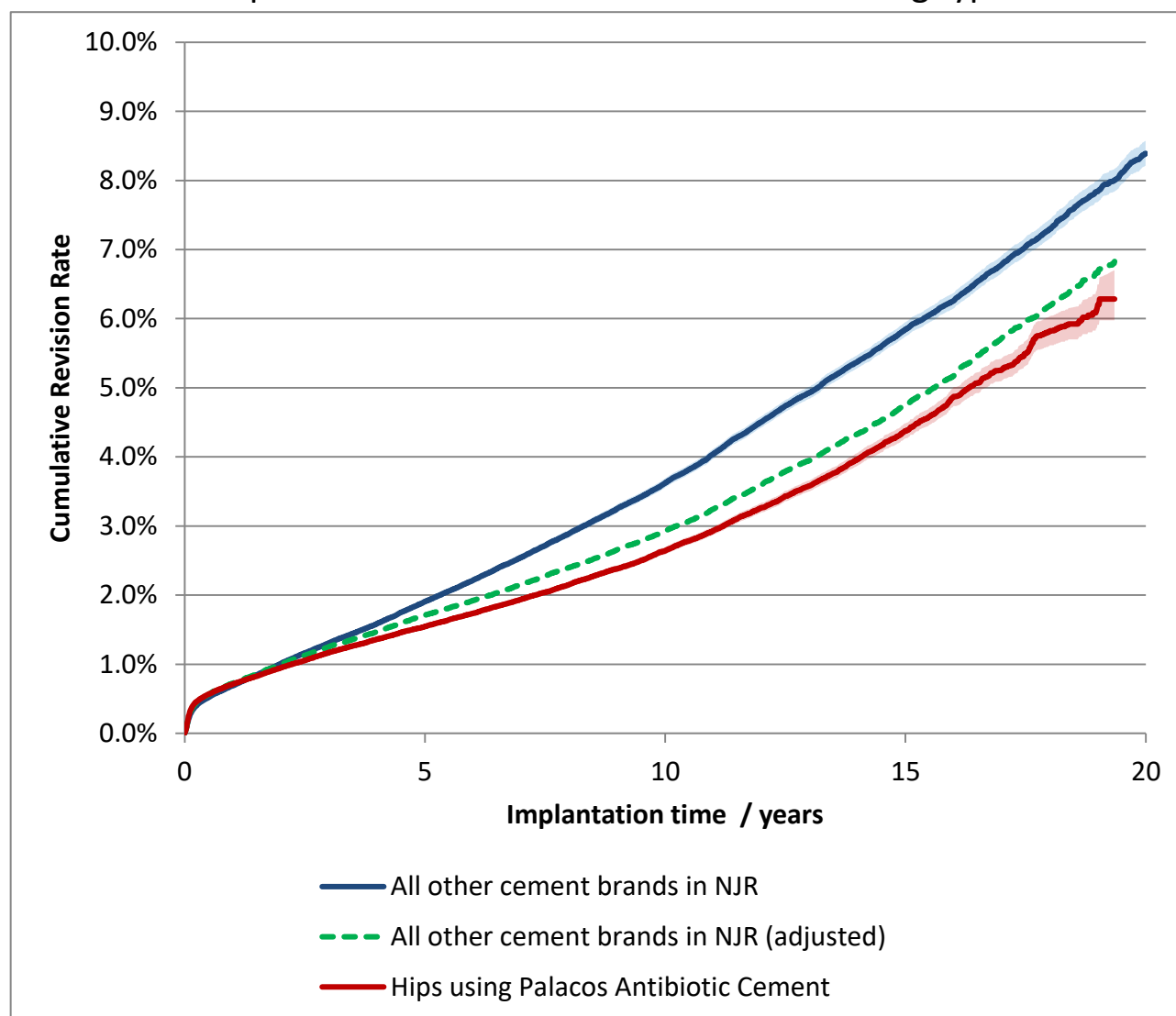


Components Revised	Hips using Palacos Antibiotic Cement (excluding MoM)		All other cement brands in NJR (excluding MoM)
Femoral only	3036	24.9%	21.3%
Acetabular only	2588	21.3%	24.3%
Both femoral and acetabular	4785	39.3%	46.2%
Isolated modular liner exchange	39	0.3%	0.2%
Isolated modular head exchange	640	5.3%	3.6%
Head and liner exchange only	928	7.6%	3.6%
No components recorded	154	1.3%	0.9%

Revision and Survivorship

Cumulative Revision Rate

Endpoint: All reasons for revision. All Bearing types



Cox Proportional Hazards model for revision risk ratio of Hips using Palacos Antibiotic Cement / All other cement brands in NJR, with endpoint as any revision.

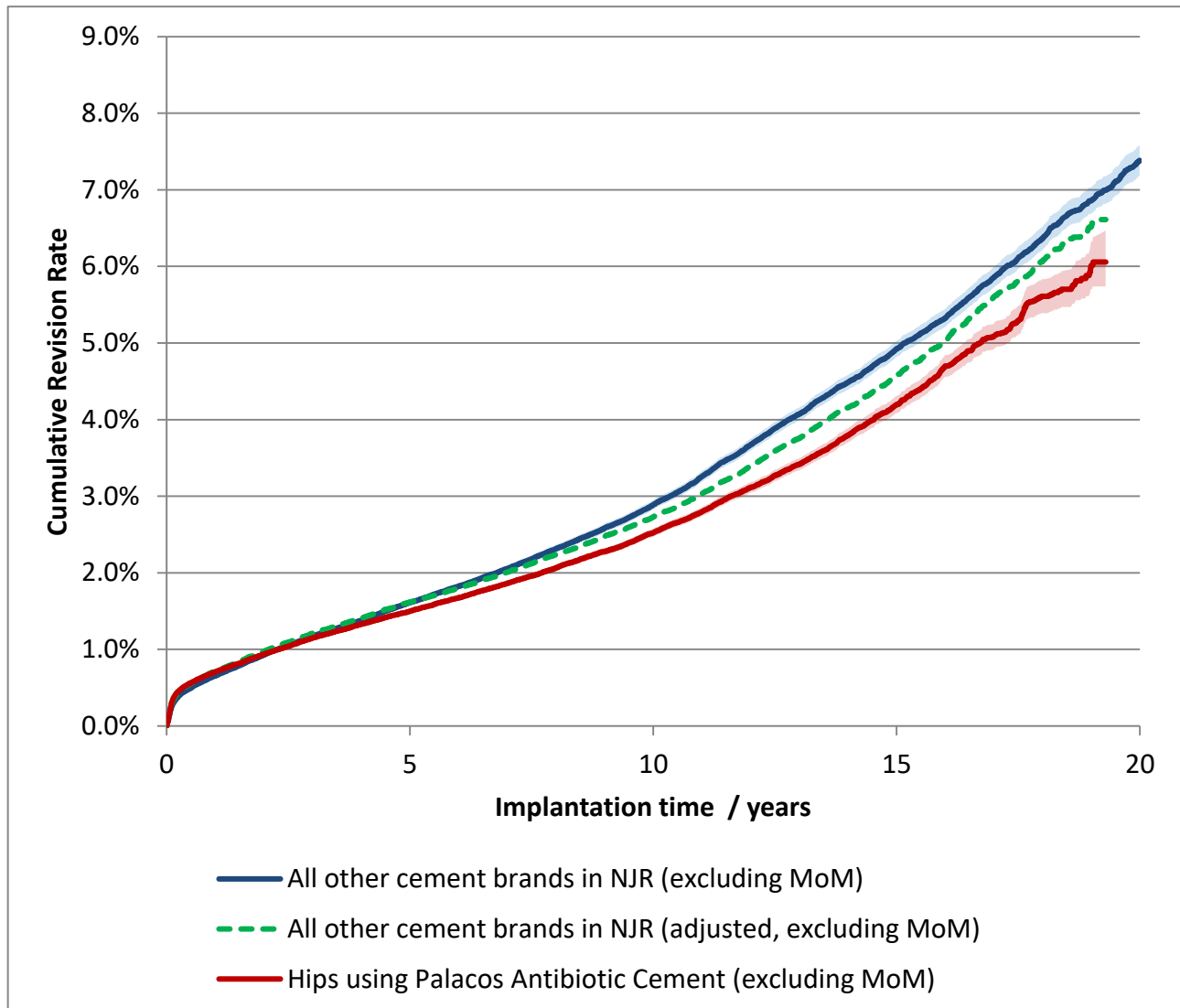
Adjustment	Hazard Ratio (95% CI)	p- value
All bearings. Unadjusted.	0.77 ‡ (0.75 - 0.79)	< 0.001
All bearings. Adjusted for age, sex, ASA, BMI, Op.date and indications.	0.90 ‡ (0.88 - 0.93)	< 0.001

‡ Hazard ratio varies with time

Revision and Survivorship

Cumulative Revision Rate

Endpoint: All reasons for revision. Excluding Metal-on-Metal



Cox Proportional Hazards model for revision risk ratio of Hips using Palacos Antibiotic Cement (excluding MoM) / All other cement brands in NJR (excluding MoM), with endpoint as any revision.

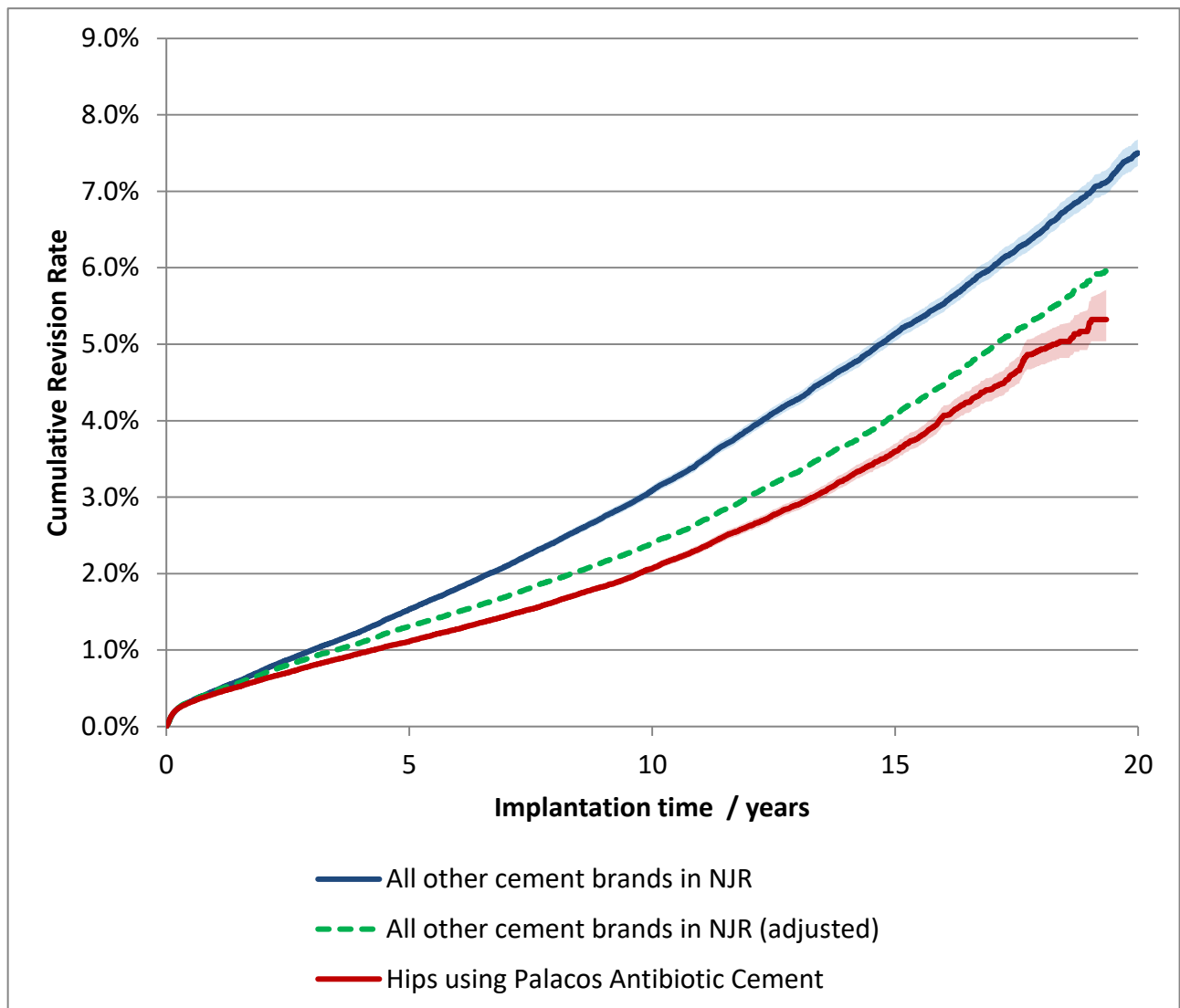
Adjustment	Hazard Ratio (95% CI)	p- value
All bearings. Unadjusted.	0.89 ‡ (0.87 - 0.91)	< 0.001
Excluding MoM. Adjusted for age, sex, ASA, BMI, Op.date and indications.	0.93 ‡ (0.90 - 0.95)	< 0.001

‡ Hazard ratio varies with time

Revision and Survivorship

Cumulative Revision Rate

Endpoint: Cemented Component Revision. All Bearing types



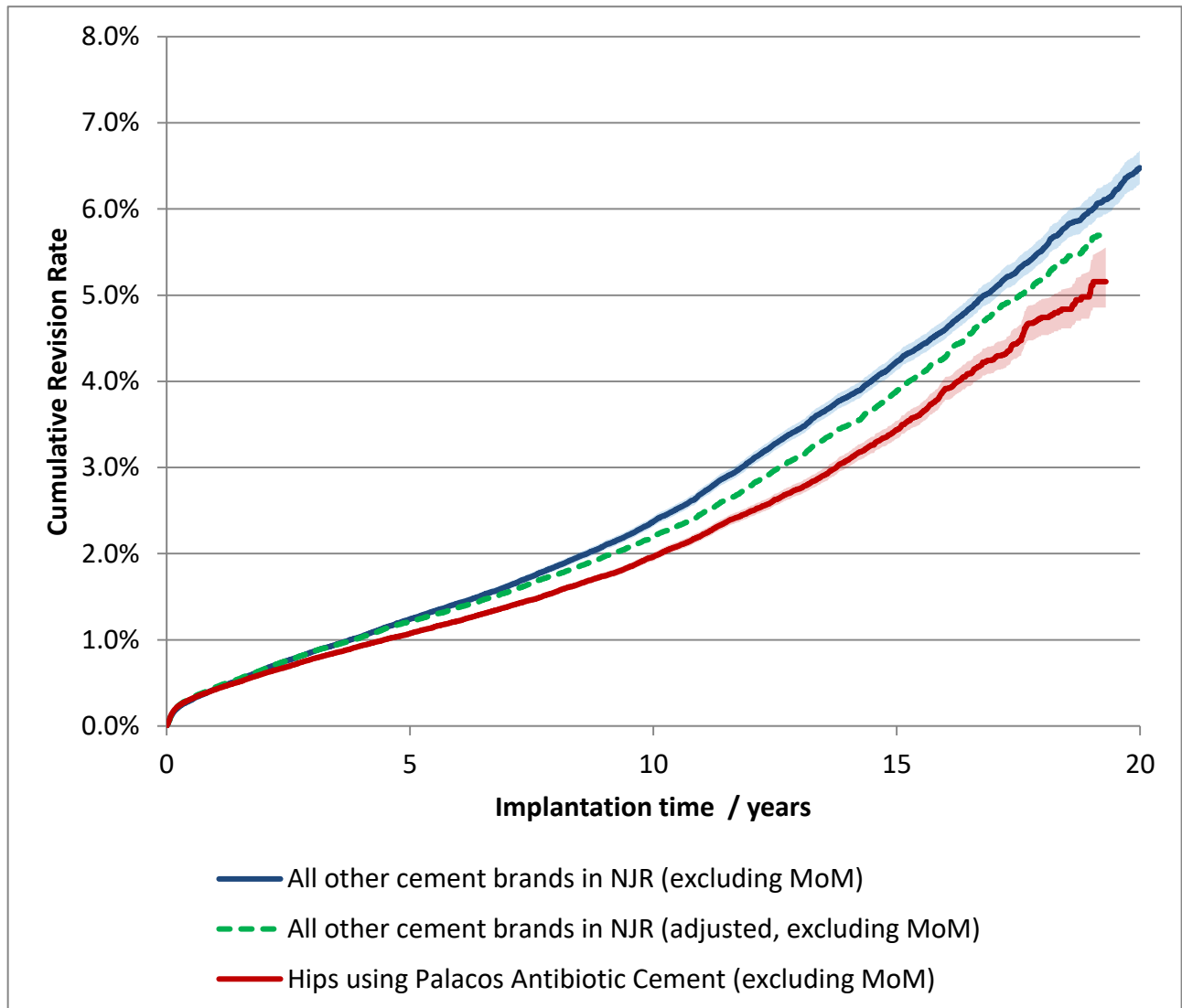
Cox Proportional Hazards model for revision risk ratio of Hips using Palacos Antibiotic Cement / All other cement brands in NJR, with endpoint as Cemented Component revision.

Adjustment	Hazard Ratio (95% CI)	p- value
All bearings. Unadjusted.	0.71 (0.69 - 0.72)	< 0.001
All bearings. Adjusted for age, sex, ASA, BMI, Op.date and indications.	0.87 (0.84 - 0.89)	< 0.001

Revision and Survivorship

Cumulative Revision Rate

Endpoint: Cemented Component Revision. Excluding Metal-on-Metal



Cox Proportional Hazards model for revision risk ratio of Hips using Palacos Antibiotic Cement (excluding MoM) / All other cement brands in NJR (excluding MoM), with endpoint as Cemented Component revision.

Adjustment	Hazard Ratio (95% CI)	p-value
All bearings. Unadjusted.	0.84 ‡ (0.82 - 0.87)	< 0.001
Excluding MoM. Adjusted for age, sex, ASA, BMI, Op.date and indications.	0.90 ‡ (0.87 - 0.93)	< 0.001

‡ Hazard ratio varies with time

Revision and Survivorship

Cumulative Revision Rate

All revisions, all Bearing types

Period /years	At Risk	Hips using Palacos Antibiotic Cement	All other cement brands in NJR
0	641,058	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	579,018	0.71% (0.69% - 0.73%)	0.69% (0.67% - 0.71%)
2	518,339	0.95% (0.93% - 0.97%)	1.01% (0.98% - 1.04%)
3	460,106	1.17% (1.14% - 1.20%)	1.31% (1.27% - 1.34%)
4	405,066	1.36% (1.33% - 1.39%)	1.59% (1.55% - 1.62%)
5	357,190	1.55% (1.51% - 1.58%)	1.91% (1.86% - 1.95%)
6	321,735	1.74% (1.70% - 1.77%)	2.22% (2.17% - 2.26%)
7	271,822	1.94% (1.90% - 1.98%)	2.55% (2.50% - 2.60%)
8	226,598	2.15% (2.11% - 2.20%)	2.89% (2.84% - 2.95%)
9	185,420	2.38% (2.33% - 2.43%)	3.25% (3.19% - 3.31%)
10	148,091	2.64% (2.59% - 2.70%)	3.62% (3.56% - 3.69%)
11	116,170	2.93% (2.87% - 2.99%)	4.04% (3.97% - 4.12%)
12	88,622	3.27% (3.20% - 3.34%)	4.51% (4.43% - 4.59%)
13	65,875	3.58% (3.50% - 3.66%)	4.93% (4.84% - 5.02%)
14	47,943	3.96% (3.87% - 4.06%)	5.38% (5.28% - 5.47%)
15	33,821	4.37% (4.26% - 4.49%)	5.84% (5.74% - 5.95%)
16	22,904	4.87% (4.74% - 5.01%)	6.26% (6.15% - 6.37%)
17	14,229	5.26% (5.10% - 5.42%)	6.78% (6.66% - 6.91%)
18	7,152	5.81% (5.60% - 6.03%)	7.29% (7.15% - 7.43%)
19	2,347	6.20% (5.91% - 6.50%)	7.84% (7.68% - 8.00%)
20			8.39% (8.21% - 8.57%)

Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where FALSE or more remain at risk

Revision and Survivorship

Cumulative Revision Rate

All revisions, Excluding Metal on Metal Bearings

Period /years	At Risk	Hips using Palacos Antibiotic Cement	All other cement brands in NJR (excluding MoM)
0	635,418	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	573,653	0.71% (0.69% - 0.73%)	0.66% (0.63% - 0.68%)
2	513,225	0.94% (0.91% - 0.96%)	0.93% (0.90% - 0.96%)
3	455,194	1.15% (1.12% - 1.18%)	1.17% (1.14% - 1.20%)
4	400,364	1.33% (1.30% - 1.36%)	1.38% (1.34% - 1.42%)
5	352,652	1.50% (1.47% - 1.53%)	1.61% (1.57% - 1.65%)
6	317,361	1.67% (1.64% - 1.71%)	1.82% (1.78% - 1.87%)
7	267,605	1.86% (1.82% - 1.90%)	2.06% (2.01% - 2.10%)
8	222,541	2.06% (2.02% - 2.11%)	2.31% (2.26% - 2.37%)
9	181,526	2.28% (2.23% - 2.32%)	2.58% (2.53% - 2.64%)
10	144,377	2.52% (2.47% - 2.57%)	2.89% (2.82% - 2.95%)
11	112,623	2.80% (2.74% - 2.86%)	3.26% (3.19% - 3.33%)
12	85,255	3.12% (3.05% - 3.19%)	3.67% (3.59% - 3.75%)
13	62,696	3.42% (3.34% - 3.50%)	4.07% (3.99% - 4.16%)
14	44,965	3.79% (3.70% - 3.89%)	4.49% (4.39% - 4.58%)
15	31,192	4.19% (4.08% - 4.30%)	4.92% (4.81% - 5.03%)
16	20,665	4.70% (4.56% - 4.84%)	5.33% (5.21% - 5.44%)
17	12,585	5.08% (4.92% - 5.25%)	5.86% (5.72% - 5.99%)
18	6,320	5.61% (5.39% - 5.83%)	6.36% (6.21% - 6.51%)
19	2,120	6.01% (5.71% - 6.32%)	6.85% (6.68% - 7.03%)
20			7.38% (7.18% - 7.58%)

Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where 23/02/2027 or more remain at risk

Revision and Survivorship

Cumulative Revision Rate

Endpoint: Cemented Component Revision, all Bearing types

Period /years	At Risk	Hips using Palacos Antibiotic Cement	All other cement brands in NJR
0	641,058	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	579,018	0.43% (0.41% - 0.45%)	0.47% (0.45% - 0.49%)
2	518,339	0.62% (0.60% - 0.64%)	0.74% (0.72% - 0.77%)
3	460,106	0.80% (0.77% - 0.82%)	1.00% (0.97% - 1.03%)
4	405,066	0.96% (0.93% - 0.99%)	1.24% (1.21% - 1.28%)
5	357,190	1.11% (1.09% - 1.14%)	1.53% (1.49% - 1.57%)
6	321,735	1.28% (1.24% - 1.31%)	1.81% (1.77% - 1.85%)
7	271,822	1.45% (1.41% - 1.48%)	2.10% (2.05% - 2.15%)
8	226,598	1.63% (1.59% - 1.67%)	2.41% (2.36% - 2.46%)
9	185,420	1.83% (1.79% - 1.87%)	2.74% (2.68% - 2.80%)
10	148,091	2.07% (2.02% - 2.11%)	3.09% (3.03% - 3.15%)
11	116,170	2.33% (2.28% - 2.39%)	3.47% (3.40% - 3.53%)
12	88,622	2.63% (2.56% - 2.69%)	3.89% (3.82% - 3.97%)
13	65,875	2.90% (2.83% - 2.97%)	4.28% (4.20% - 4.37%)
14	47,943	3.24% (3.15% - 3.33%)	4.70% (4.61% - 4.79%)
15	33,821	3.59% (3.49% - 3.70%)	5.14% (5.04% - 5.24%)
16	22,904	4.07% (3.94% - 4.20%)	5.53% (5.42% - 5.64%)
17	14,229	4.41% (4.26% - 4.57%)	6.01% (5.89% - 6.13%)
18	7,152	4.93% (4.73% - 5.13%)	6.46% (6.33% - 6.60%)
19	2,347	5.28% (5.01% - 5.56%)	6.97% (6.82% - 7.12%)
20			7.50% (7.33% - 7.68%)

Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where 23/02/2027 or more remain at risk

Revision and Survivorship

Cumulative Revision Rate

Endpoint: Cemented Component Revision, excluding Metal on Metal bearings

Period /years	At Risk	Hips using Palacos Antibiotic Cement	All other cement brands in NJR (excluding MoM)
0	635,418	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	573,653	0.42% (0.41% - 0.44%)	0.43% (0.41% - 0.45%)
2	513,225	0.61% (0.59% - 0.63%)	0.65% (0.63% - 0.68%)
3	455,194	0.78% (0.76% - 0.80%)	0.86% (0.83% - 0.89%)
4	400,364	0.93% (0.91% - 0.96%)	1.04% (1.01% - 1.07%)
5	352,652	1.07% (1.05% - 1.10%)	1.24% (1.21% - 1.28%)
6	317,361	1.22% (1.19% - 1.25%)	1.43% (1.39% - 1.47%)
7	267,605	1.38% (1.35% - 1.42%)	1.62% (1.58% - 1.66%)
8	222,541	1.56% (1.52% - 1.60%)	1.85% (1.81% - 1.90%)
9	181,526	1.74% (1.70% - 1.78%)	2.10% (2.04% - 2.15%)
10	144,377	1.96% (1.91% - 2.01%)	2.37% (2.32% - 2.43%)
11	112,623	2.21% (2.16% - 2.27%)	2.70% (2.64% - 2.77%)
12	85,255	2.49% (2.43% - 2.56%)	3.08% (3.01% - 3.15%)
13	62,696	2.75% (2.68% - 2.83%)	3.45% (3.37% - 3.53%)
14	44,965	3.09% (3.00% - 3.17%)	3.82% (3.73% - 3.91%)
15	31,192	3.43% (3.33% - 3.54%)	4.22% (4.12% - 4.33%)
16	20,665	3.92% (3.78% - 4.05%)	4.60% (4.49% - 4.72%)
17	12,585	4.26% (4.10% - 4.42%)	5.08% (4.95% - 5.20%)
18	6,320	4.74% (4.54% - 4.96%)	5.52% (5.38% - 5.67%)
19	2,120	5.11% (4.82% - 5.41%)	5.98% (5.82% - 6.15%)
20			6.48% (6.29% - 6.67%)

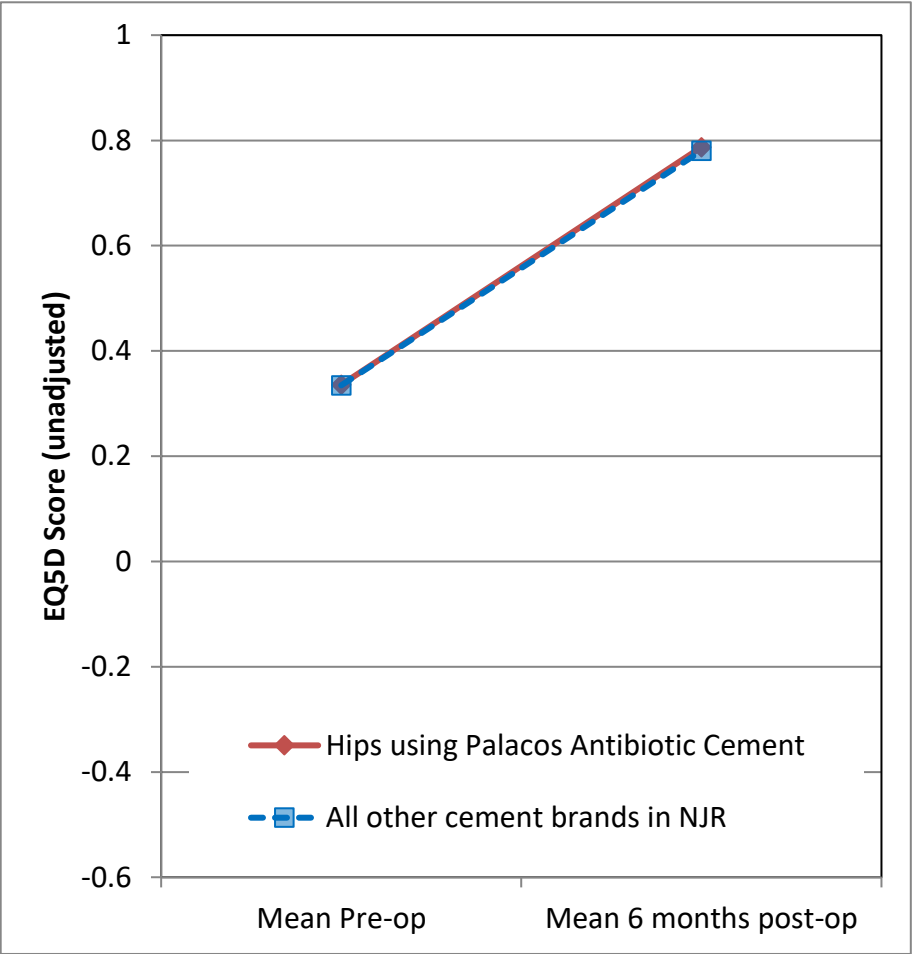
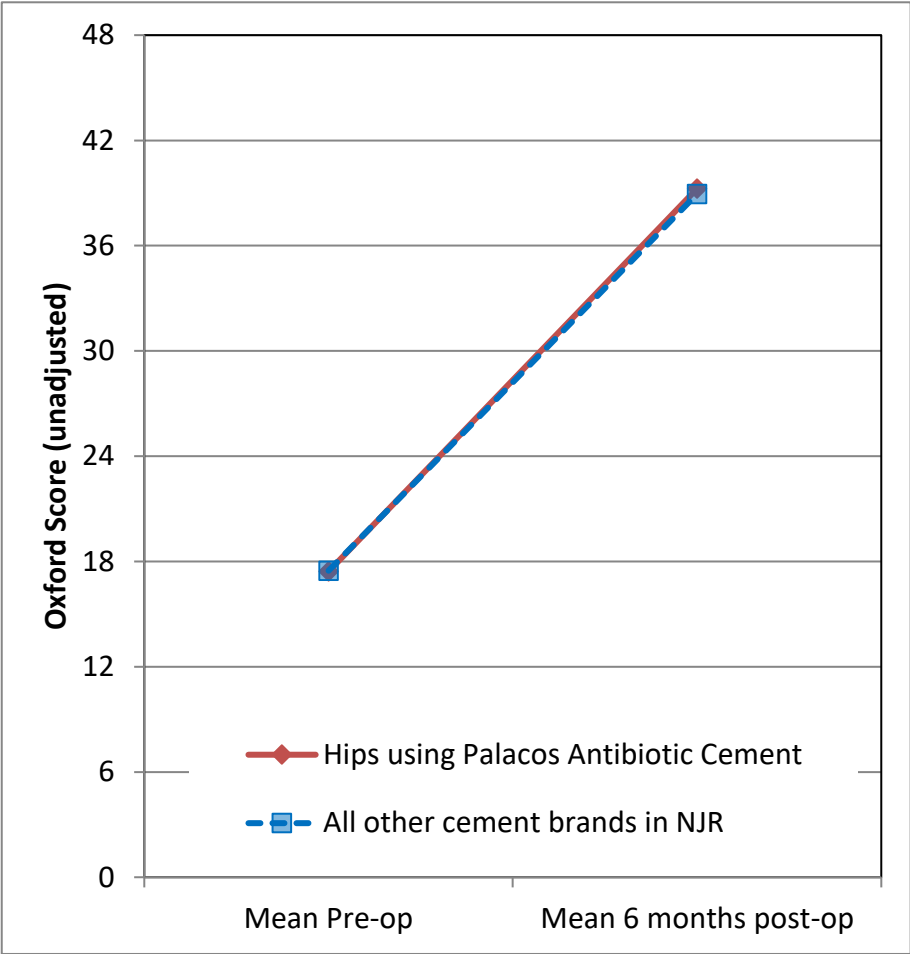
Cumulative revision rate with 95% confidence intervals

Rate is only reported for times where 23/02/2027 or more remain at risk

Patient Reported Outcomes

PROMs Analysis

Comprising PROMs data up to and including: 30/03/2024



Patient Reported Outcomes

PROMs Analysis

Comprising PROMs data up to and including: 30/03/2024

Oxford Hip Score (0 - 48)	Hips using Palacos Antibiotic Cement	All other cement brands in NJR	All THR in NJR
Paired Records	149,351	94,781	404,860
PreOp score	17.4 (17.4 - 17.5)	17.5 (17.4 - 17.5)	17.8 (17.8 - 17.9)
6 month score	39.2 (39.2 - 39.3)	38.9 (38.9 - 39.0)	39.6 (39.5 - 39.6)
6 month score (adjusted)	39.5 (39.5 - 39.6)	39.4 (39.3 - 39.4)	39.6 (39.5 - 39.6)
Health gain	21.8 (21.8 - 21.9)	21.5 (21.4 - 21.5)	21.7 (21.7 - 21.8)
Health gain (adjusted)	21.7 (21.6 - 21.7)	21.5 (21.5 - 21.6)	21.7 (21.7 - 21.8)
p value (adjusted health gain)	<0.001		
Score Improved	97.4%	97.1%	97.3%

EQ-5D Index (-0.59 - 1.00)	Hips using Palacos Antibiotic Cement	All other cement brands in NJR	All THR in NJR
Paired Records	137,491	87,204	373,959
PreOp score	0.336 (0.334 - 0.337)	0.335 (0.332 - 0.337)	0.349 (0.348 - 0.350)
6 month score	0.787 (0.786 - 0.788)	0.780 (0.778 - 0.782)	0.794 (0.793 - 0.794)
6 month score (adjusted)	0.792 (0.791 - 0.793)	0.789 (0.787 - 0.790)	0.793 (0.793 - 0.794)
Health gain	0.452 (0.450 - 0.453)	0.446 (0.444 - 0.447)	0.445 (0.444 - 0.445)
Health gain (adjusted)	0.443 (0.441 - 0.445)	0.440 (0.437 - 0.442)	0.445 (0.443 - 0.446)
p value (adjusted health gain)	0.082		
Score Improved	89.8%	89.5%	89.8%

EQ-VAS (0 - 100)	Hips using Palacos Antibiotic Cement	All other cement brands in NJR	All THR in NJR
Paired Records	131,324	83,663	358,744
PreOp score	63.8 (63.7 - 64.0)	63.9 (63.8 - 64.1)	64.3 (64.2 - 64.4)
6 month score	76.3 (76.2 - 76.4)	75.8 (75.7 - 75.9)	76.8 (76.8 - 76.9)
6 month score (adjusted)	76.8 (76.7 - 76.9)	76.5 (76.4 - 76.6)	76.8 (76.8 - 76.9)
Health gain	12.5 (12.4 - 12.6)	11.9 (11.8 - 12.0)	12.6 (12.5 - 12.6)
Health gain (adjusted)	12.5 (12.4 - 12.6)	12.2 (12.1 - 12.4)	12.5 (12.5 - 12.6)
p value (adjusted health gain)	0.0023		
Score Improved	66.6%	65.4%	66.9%

Adjusted scores correspond to the NHS England version 3 casemix-adjustment model. This includes patient variables from PROMs, HES, and IMD data.

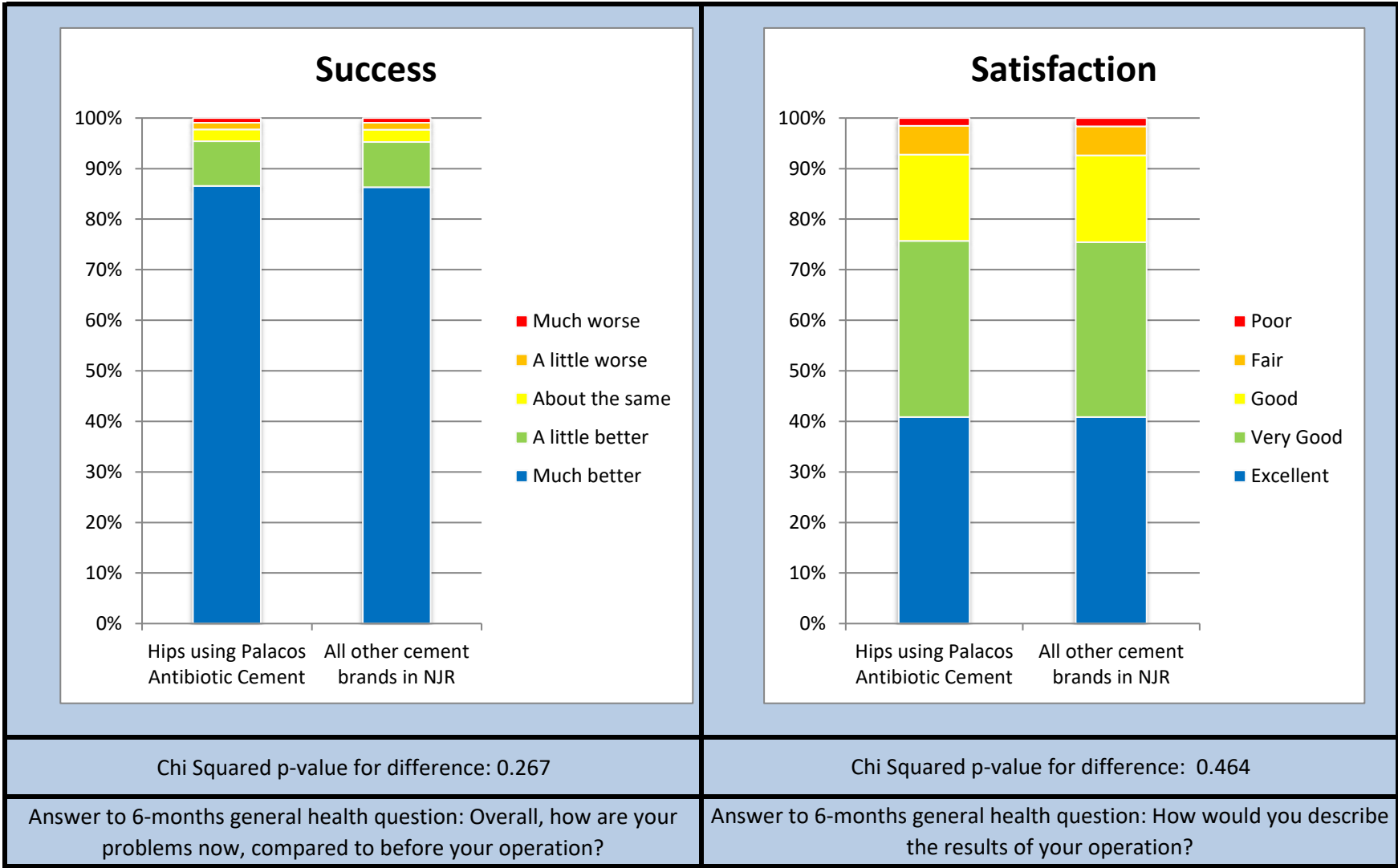
Figures in parentheses represent the 95% confidence interval for the mean

Summary Report for:

Responses are not case mix adjusted

Hips using Palacos Antibiotic Cement

Patient Reported Outcomes



Patient Reported Outcomes

Success

Response	Hips using Palacos Antibiotic Cement	All other cement brands in NJR
Much better	131938	83650
A little better	13430	8664
About the same	3598	2378
A little worse	2019	1335
Much worse	1415	879

Answer to 6-months general health question:

"Overall, how are your problems now, compared to before your operation?"

Satisfaction

Response	Hips using Palacos Antibiotic Cement	All other cement brands in NJR
Excellent	62170	39507
Very Good	53038	33476
Good	25963	16603
Fair	8625	5574
Poor	2381	1570

Answer to 6-months general health question:

"How would you describe the results of your operation?"

Disclaimer

Disclaimer

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Appendix A: Component List

Catalogue Number	Description	Number Implanted
Cement		
5081280	PALACOS® R+G PRO 80 CE EUR	109
5081283	PALACOS® MV+G PRO 80 CE EUR	8
66017569	PALACOS R +G 2x40 g	563569
66017747	PALACOS R +G 2x40 g	3441
66017771	PALACOS R +G 1x40 g	3943
66017772	PALACOS R +G 1x60 g	8515
66017773	PALACOS R +G 2x20 g	5497
66017776	PALACOS R +G 2x10 g	7
66017787	PALACOS LV +G 1x40 g	5412
66031993	PALACOS MV+G 1x40g	254
66031995	PALACOS MV+G 2x40 g	3348
66031996	PALACOS MV+G 1x20g	3
66031998	PALACOS MV+G 2x20 g	11
66032000	PALACOS MV+G 1x60 g	1
66037894	PALACOS LV+G 1x20g	1
66044273	PALACOS R+G Pro 55 cement	183
66044274	PALACOS R+G Pro 75 cement	923
Multiple Found	Multiple Found	45764
Multiple Found	PALACOS R +G 2x40 g	69