

Implant Summary Report for:

Heraeus Medical

Hips using Palacos 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

Contents

Recorded Usage in NJR	2
Patient and Procedure Details	3
Revision and Survivorship	4
Patient Reported Outcome Measures	14
APPENDIX A – Component List	19

This report has been produced by the National Joint Registry (NJR). It summarises usage and outcomes associated with brand(s) Palacos 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.

This report is made available to Heraeus Medical under licence. Under this licence, Heraeus Medical is free to distribute this document, subject to the restrictions specified in the National Joint Registry Supplier Feedback Terms of Use and Use Code of Practice.

NJR Recorded Usage

Implant Usage

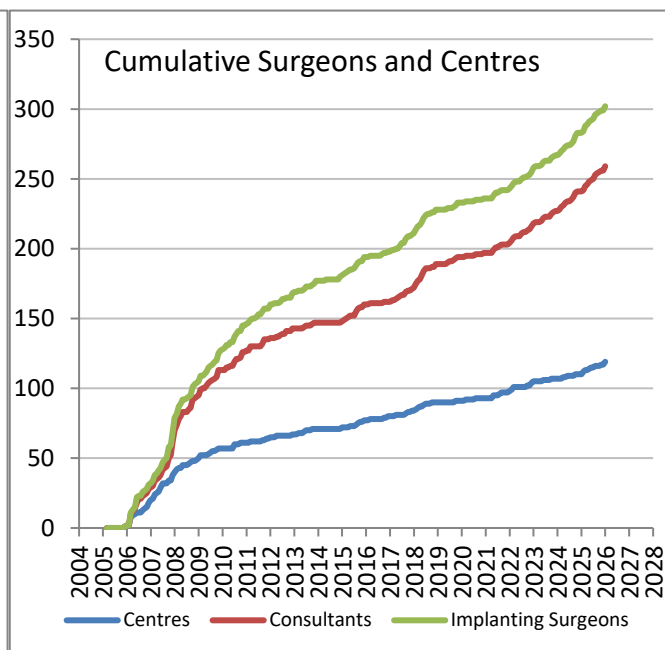
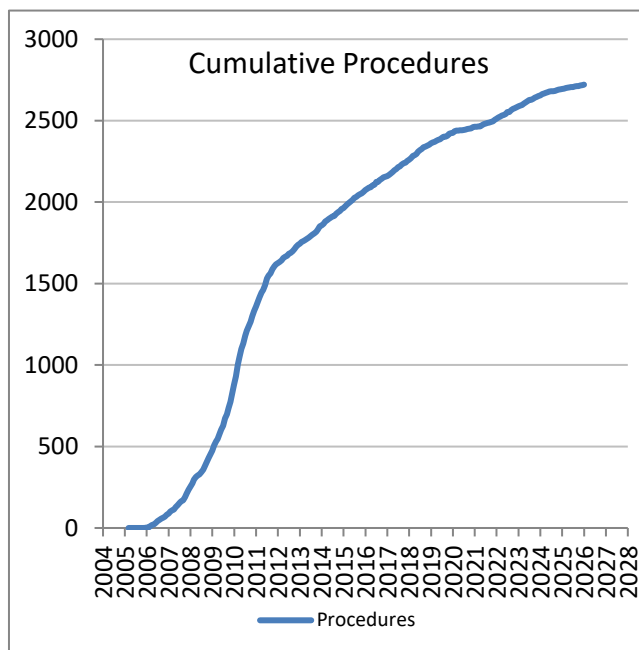
Date of first recorded usage in the NJR: **15 November 2005**

Date of last recorded usage in this dataset: **29 December 2025**

Maximum implantation time: 20.1 years

Mean implantation time: 9.7 years

Totals Recorded in NJR	Cumulative Total
Procedures	2,721
Patients	2,581
Centres	119
Consultants	259
Implanting Surgeons	302



Current Outcome	Pre-2014	Year of implantation													Total	%
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025			
Death	1046	40	43	22	25	18	10	9	4	3	3	1	0	1224	45.0%	
Revised	66	4	4	3	4	4	1	3	2	1	5	0	0	97	3.6%	
Unrevised	746	62	63	61	72	77	54	25	44	72	59	38	27	1400	51.5%	
Total	1858	106	110	86	101	99	65	37	50	76	67	39	27	2721	100%	

Patient / Procedure Details

Patient Details

	Hips using Palacos Cement	All other cement brands in NJR	All NJR hip replacement
Total Procedures	2,721	1,101,332	1,830,950
Total Patients	2,581	940,917	1,501,823
Demographics			
Mean age	73.7	71.2	68.8
< 50	1.6%	3.9%	6.0%
50 – 59	6.1%	10.3%	14.6%
60 – 69	22.1%	25.3%	29.3%
70 – 79	45.3%	40.0%	34.7%
≥ 80	25.0%	20.5%	15.5%
Median BMI	27	28	28
% BMI information available	57.0%	67.8%	68.0%
Underweight (BMI < 18.5)	1.4%	1.0%	0.9%
Normal (18.5 ≤ BMI < 25)	24.7%	22.1%	20.8%
Overweight (25 ≤ BMI < 30)	41.9%	39.1%	38.9%
Obese I (30 ≤ BMI < 35)	21.6%	25.1%	25.8%
Obese II (35 ≤ BMI < 40)	7.7%	9.5%	10.2%
Obese III (BMI ≥ 40)	2.7%	3.1%	3.3%
%Female	66.4%	63.4%	59.9%
%Male	33.6%	36.6%	40.1%
ASA Grades			
P1 - Fit and healthy	12.6%	11.2%	13.3%
P2 - Mild disease not incapacitating	67.5%	66.6%	67.9%
P3 - Incapacitating systemic disease	19.1%	21.4%	18.2%
P4 / P5	0.8%	0.8%	0.6%
Indications			
Osteoarthritis	93.53%	89.94%	91.31%
Inflammatory Arthropathy	0.92%	1.41%	1.29%
Avascular Necrosis	2.98%	2.74%	2.69%
Fractured Neck Of Femur	3.38%	5.21%	3.84%
CDH DDH	2.90%	1.21%	1.64%
Other	1.69%	2.54%	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	7	7.50	0.57 - 1.37	0.61
Dislocation / Subluxation	30	18.63	1.21 - 1.92	0.01
Adverse Soft Tissue Reaction	6	6.28	0.56 - 1.42	0.59
Infection	11	13.52	0.56 - 1.14	0.77
Aseptic Loosening - Stem	16	9.53	1.11 - 2.05	0.05
Aseptic Loosening - Socket	10	18.63	0.38 - 0.80	0.98
Periprosthetic Fracture Stem	19	16.21	0.85 - 1.49	0.28
Periprosthetic Fracture Socket	1	1.77	0.29 - 1.42	0.73
Malalignment Stem	8	1.73	1.68 - 3.86	0.005
Malalignment Socket	1	3.62	0.20 - 0.94	0.92
Leg length discrepancy	0	0.19	0.24 - 1.80	0.64
Wear Of Acetabular Component	7	5.41	0.73 - 1.75	0.33
Lysis Stem	7	3.05	1.08 - 2.59	0.07
Lysis Socket	6	4.72	0.70 - 1.76	0.36
Implant Fracture Stem	2	1.98	0.44 - 1.68	0.56
Implant Fracture Ceramic Head	0	0.31	0.23 - 1.70	0.67
Implant Fracture Ceramic Liner	0	0.13	0.25 - 1.88	0.62
Implant Fracture Poly Liner	0	0.12	0.25 - 1.88	0.62
Dissociation of Liner	0	0.85	0.18 - 1.36	0.78
Other / Not recorded	4	3.28	0.60 - 1.76	0.43
Total Revised	97	87.07	0.97 - 1.26	0.16

† 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 Cement		All other cement brands in NJR
Femoral only	20	20.6%	20.9%
Acetabular only	27	27.8%	19.6%
Both femoral and acetabular	48	49.5%	49.9%
Isolated modular liner exchange	0	0.0%	0.2%
Isolated modular head exchange	1	1.0%	3.7%
Head and liner exchange only	1	1.0%	4.7%
No components recorded	0	0.0%	0.9%

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	4	4.52	0.48 - 1.42	0.63
Dislocation / Subluxation	30	18.41	1.22 - 1.94	0.01
Adverse Soft Tissue Reaction	2	1.24	0.54 - 2.07	0.40
Infection	11	13.14	0.57 - 1.18	0.74
Aseptic Loosening - Stem	13	8.31	1.00 - 1.96	0.10
Aseptic Loosening - Socket	10	17.75	0.40 - 0.84	0.98
Periprosthetic Fracture Stem	18	14.80	0.86 - 1.54	0.25
Periprosthetic Fracture Socket	1	1.65	0.30 - 1.46	0.70
Malalignment Stem	8	1.51	1.79 - 4.13	0.003
Malalignment Socket	1	3.17	0.21 - 1.03	0.89
Leg length discrepancy	0	0.19	0.24 - 1.80	0.64
Wear Of Acetabular Component	7	5.38	0.73 - 1.76	0.32
Lysis Stem	5	2.41	0.89 - 2.40	0.16
Lysis Socket	5	4.12	0.64 - 1.73	0.41
Implant Fracture Stem	1	2.01	0.27 - 1.33	0.76
Implant Fracture Ceramic Head	0	0.31	0.23 - 1.70	0.67
Implant Fracture Ceramic Liner	0	0.13	0.25 - 1.88	0.62
Implant Fracture Poly Liner	0	0.13	0.25 - 1.88	0.62
Dissociation of Liner	0	0.80	0.19 - 1.39	0.77
Other / Not recorded	2	2.06	0.43 - 1.65	0.58
Total Revised	85	75.56	0.97 - 1.28	0.15

[†] 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

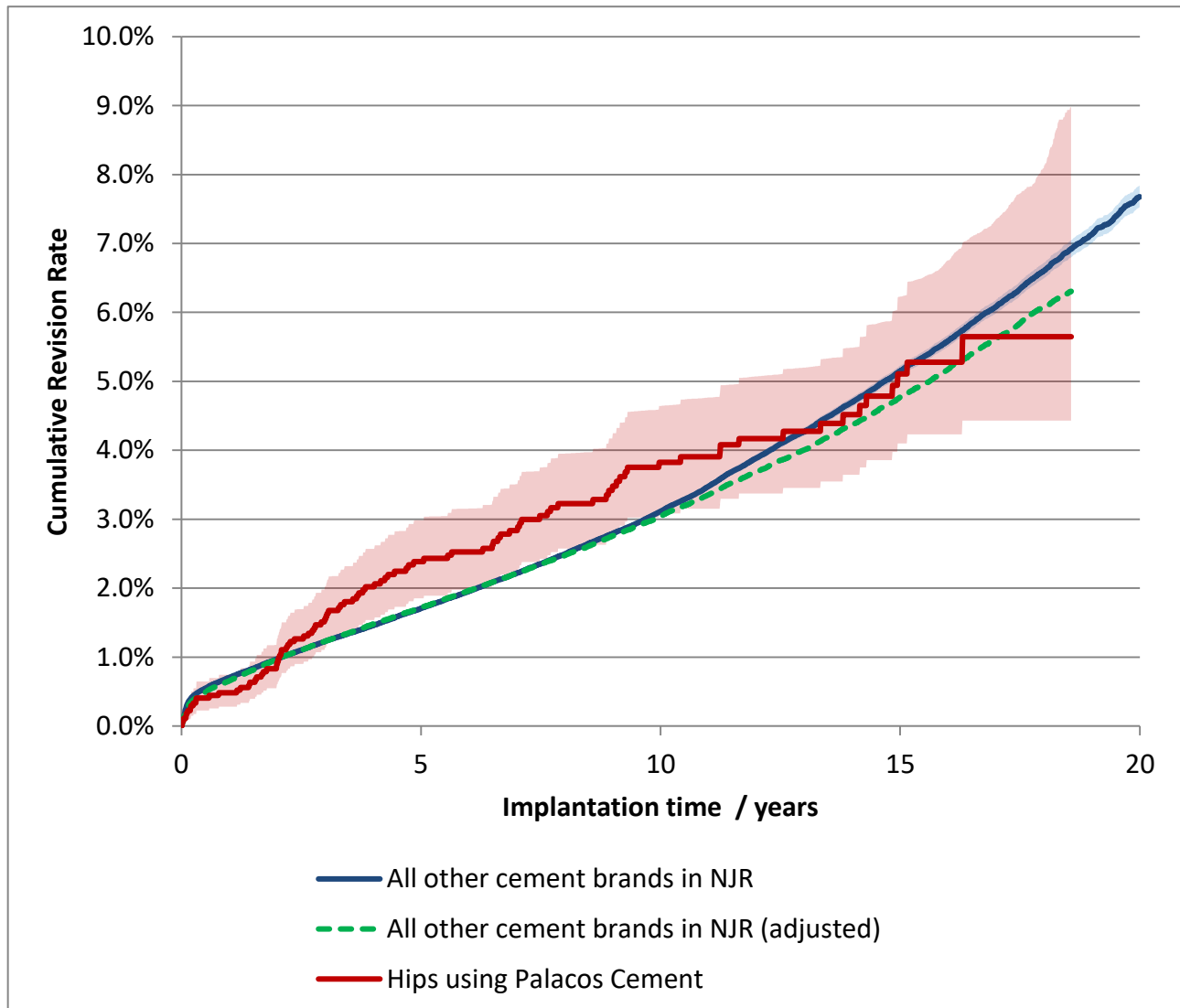


Components Revised	Hips using Palacos Cement (excluding MoM)		All other cement brands in NJR (excluding MoM)
Femoral only	18	21.2%	23.1%
Acetabular only	27	31.8%	22.7%
Both femoral and acetabular	38	44.7%	42.7%
Isolated modular liner exchange	0	0.0%	0.2%
Isolated modular head exchange	1	1.2%	4.4%
Head and liner exchange only	1	1.2%	5.7%
No components recorded	0	0.0%	1.1%

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 Cement / All other cement brands in NJR, with endpoint as any revision.

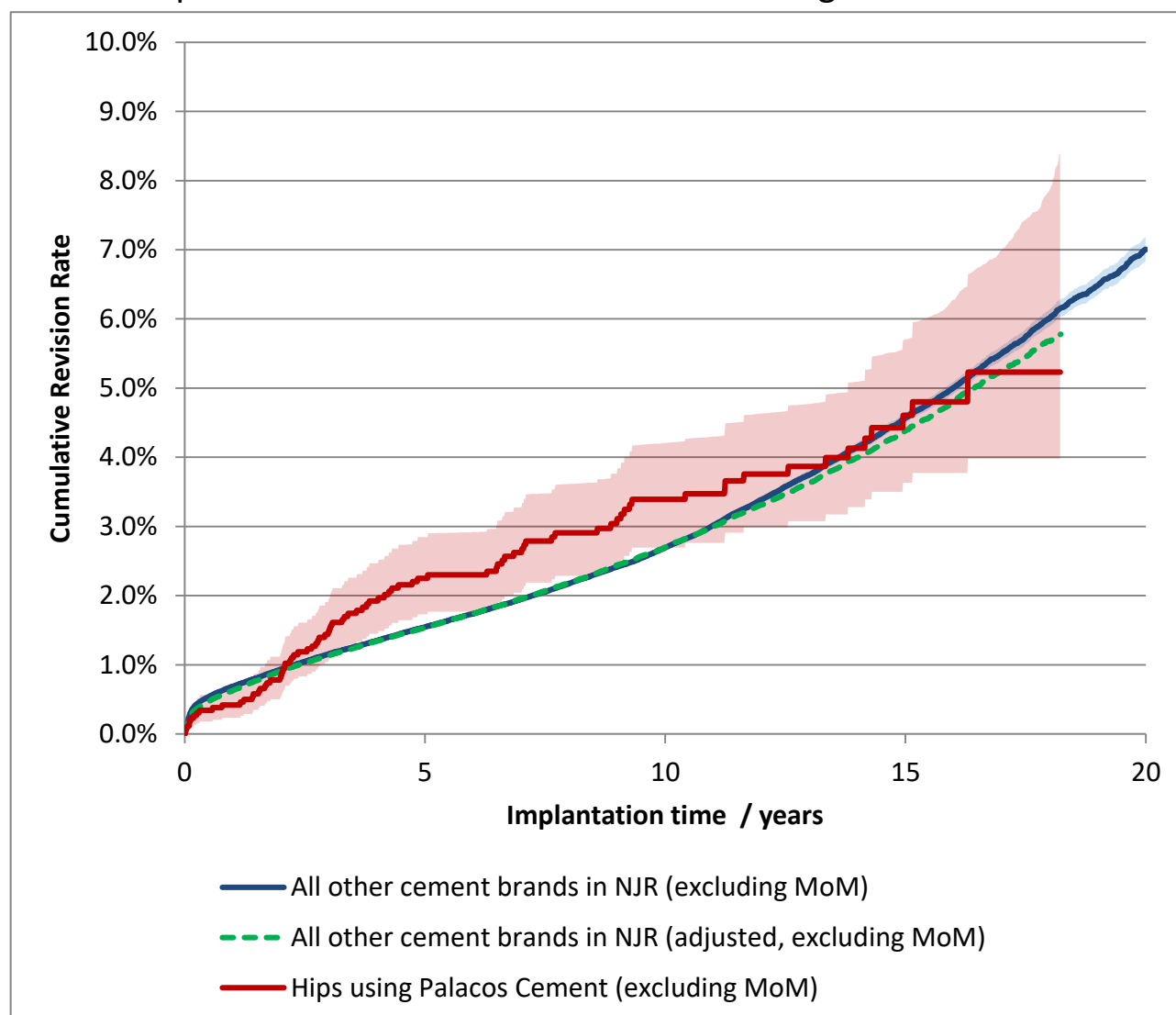
Adjustment	Hazard Ratio (95% CI)	p- value
All bearings. Unadjusted.	1.06 ‡ (0.87 - 1.30)	0.56
All bearings. Adjusted for age, sex, ASA, BMI, Op.date and indications.	1.11 ‡ (0.91 - 1.36)	0.30

‡ Hazard ratio varies with time

Revision and Survivorship

Cumulative Revision Rate

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



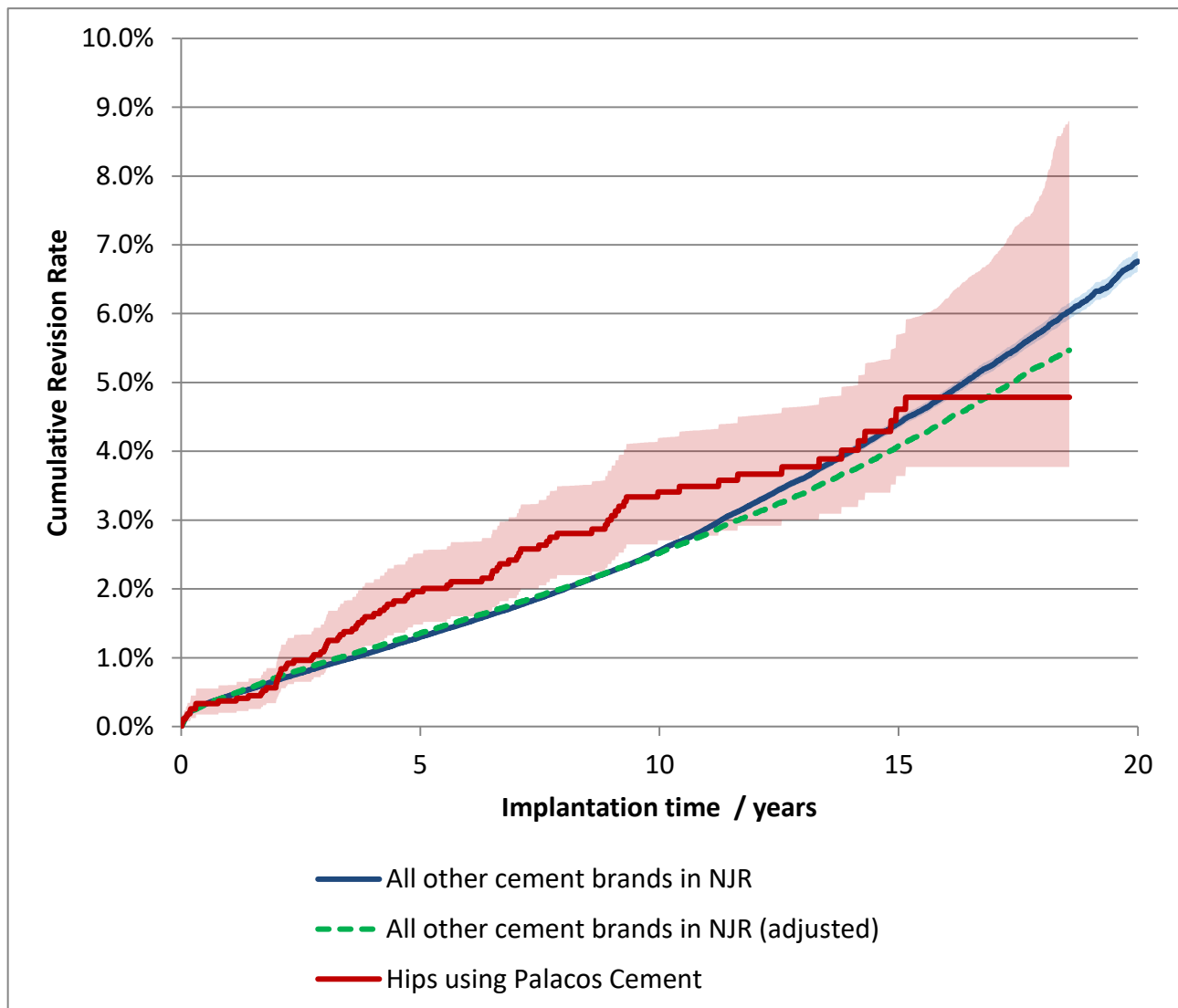
Cox Proportional Hazards model for revision risk ratio of Hips using Palacos Cement (excluding MoM) / All other cement brands in NJR (excluding MoM), with endpoint as any revision.

Adjustment	Hazard Ratio (95% CI)	p- value
All bearings. Unadjusted.	1.10 (0.89 - 1.36)	0.39
Excluding MoM. Adjusted for age, sex, ASA, BMI, Op.date and indications.	1.14 (0.92 - 1.41)	0.23

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 Cement / All other cement brands in NJR, with endpoint as Cemented Component revision.

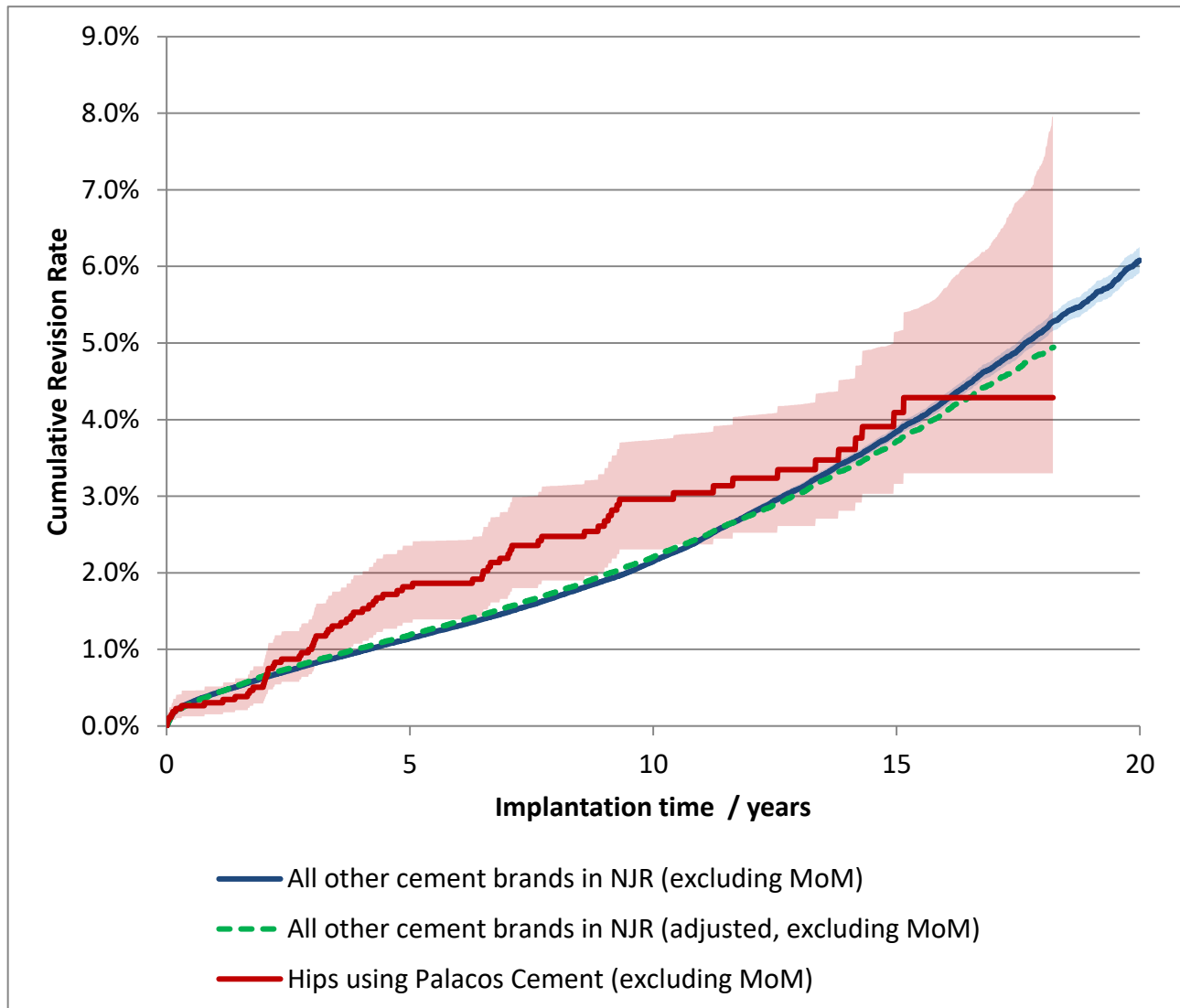
Adjustment	Hazard Ratio (95% CI)	p- value
All bearings. Unadjusted.	1.11 ‡ (0.90 - 1.37)	0.34
All bearings. Adjusted for age, sex, ASA, BMI, Op.date and indications.	1.15 ‡ (0.93 - 1.43)	0.19

‡ Hazard ratio varies with time

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 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.	1.15 ‡ (0.91 - 1.45)	0.24
Excluding MoM. Adjusted for age, sex, ASA, BMI, Op.date and indications.	1.17 ‡ (0.93 - 1.48)	0.18

‡ Hazard ratio varies with time

Revision and Survivorship

Cumulative Revision Rate

All revisions, all Bearing types

Period /years	At Risk	Hips using Palacos Cement	All other cement brands in NJR
0	2,721	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	2,620	0.48% (0.28% - 0.74%)	0.70% (0.69% - 0.72%)
2	2,517	0.91% (0.61% - 1.27%)	0.98% (0.96% - 0.99%)
3	2,371	1.55% (1.14% - 2.03%)	1.23% (1.21% - 1.25%)
4	2,212	2.02% (1.54% - 2.57%)	1.46% (1.44% - 1.48%)
5	2,085	2.38% (1.85% - 2.99%)	1.71% (1.68% - 1.73%)
6	1,968	2.53% (1.97% - 3.15%)	1.95% (1.92% - 1.98%)
7	1,818	2.84% (2.24% - 3.51%)	2.22% (2.19% - 2.25%)
8	1,648	3.22% (2.57% - 3.95%)	2.50% (2.46% - 2.53%)
9	1,469	3.48% (2.79% - 4.25%)	2.79% (2.75% - 2.83%)
10	1,292	3.82% (3.09% - 4.64%)	3.11% (3.07% - 3.16%)
11	1,132	3.90% (3.15% - 4.76%)	3.48% (3.43% - 3.52%)
12	997	4.17% (3.37% - 5.07%)	3.89% (3.84% - 3.94%)
13	876	4.27% (3.45% - 5.20%)	4.27% (4.21% - 4.33%)
14	738	4.52% (3.65% - 5.49%)	4.70% (4.63% - 4.76%)
15	571	5.11% (4.10% - 6.23%)	5.15% (5.07% - 5.22%)
16	337	5.28% (4.23% - 6.75%)	5.59% (5.50% - 5.67%)
17	162	5.65% (4.43% - 7.35%)	6.08% (5.99% - 6.18%)
18	77	5.65% (4.43% - 8.10%)	6.60% (6.49% - 6.71%)
19			7.13% (7.00% - 7.26%)
20			7.68% (7.52% - 7.84%)

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 Cement	All other cement brands in NJR (excluding MoM)
0	2,641	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	2,544	0.42% (0.23% - 0.67%)	0.69% (0.67% - 0.70%)
2	2,442	0.82% (0.53% - 1.17%)	0.93% (0.92% - 0.95%)
3	2,296	1.48% (1.08% - 1.96%)	1.16% (1.14% - 1.18%)
4	2,139	1.92% (1.45% - 2.47%)	1.35% (1.33% - 1.37%)
5	2,016	2.25% (1.73% - 2.85%)	1.55% (1.52% - 1.57%)
6	1,901	2.30% (1.77% - 2.92%)	1.74% (1.71% - 1.77%)
7	1,751	2.62% (2.04% - 3.28%)	1.95% (1.92% - 1.98%)
8	1,584	2.91% (2.29% - 3.61%)	2.17% (2.14% - 2.21%)
9	1,407	3.11% (2.46% - 3.84%)	2.42% (2.38% - 2.45%)
10	1,232	3.39% (2.69% - 4.21%)	2.69% (2.65% - 2.73%)
11	1,073	3.47% (2.76% - 4.30%)	3.02% (2.97% - 3.06%)
12	938	3.76% (2.99% - 4.63%)	3.39% (3.34% - 3.44%)
13	818	3.87% (3.08% - 4.77%)	3.75% (3.69% - 3.81%)
14	680	4.13% (3.28% - 5.09%)	4.15% (4.08% - 4.21%)
15	515	4.61% (3.63% - 5.70%)	4.57% (4.49% - 4.65%)
16	295	4.80% (3.77% - 6.27%)	5.01% (4.92% - 5.10%)
17	140	5.23% (3.98% - 7.00%)	5.50% (5.40% - 5.60%)
18	62	5.23% (3.98% - 7.86%)	6.01% (5.89% - 6.13%)
19			6.48% (6.34% - 6.63%)
20			7.01% (6.83% - 7.18%)

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 Cement	All other cement brands in NJR
0	2,721	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	2,620	0.37% (0.20% - 0.60%)	0.45% (0.43% - 0.46%)
2	2,517	0.64% (0.40% - 0.95%)	0.67% (0.66% - 0.69%)
3	2,371	1.13% (0.78% - 1.53%)	0.88% (0.87% - 0.90%)
4	2,212	1.60% (1.17% - 2.09%)	1.08% (1.06% - 1.10%)
5	2,085	1.96% (1.48% - 2.51%)	1.30% (1.28% - 1.32%)
6	1,968	2.11% (1.60% - 2.68%)	1.52% (1.49% - 1.54%)
7	1,818	2.42% (1.87% - 3.04%)	1.74% (1.72% - 1.77%)
8	1,648	2.81% (2.20% - 3.49%)	1.99% (1.96% - 2.02%)
9	1,469	3.07% (2.42% - 3.79%)	2.26% (2.22% - 2.29%)
10	1,292	3.41% (2.71% - 4.19%)	2.55% (2.51% - 2.59%)
11	1,132	3.49% (2.77% - 4.31%)	2.88% (2.84% - 2.93%)
12	997	3.67% (2.92% - 4.52%)	3.26% (3.21% - 3.31%)
13	876	3.77% (3.00% - 4.65%)	3.60% (3.55% - 3.66%)
14	738	4.02% (3.19% - 4.95%)	3.99% (3.93% - 4.06%)
15	571	4.61% (3.64% - 5.70%)	4.41% (4.34% - 4.48%)
16	337	4.78% (3.77% - 6.22%)	4.82% (4.74% - 4.90%)
17	162	4.78% (3.77% - 6.84%)	5.27% (5.18% - 5.37%)
18	77	4.78% (3.77% - 7.74%)	5.74% (5.64% - 5.85%)
19			6.23% (6.11% - 6.36%)
20			6.76% (6.61% - 6.91%)

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 Cement	All other cement brands in NJR (excluding MoM)
0	2,641	0.00% (0.00% - 0.00%)	0.00% (0.00% - 0.00%)
1	2,544	0.31% (0.15% - 0.52%)	0.43% (0.41% - 0.44%)
2	2,442	0.55% (0.32% - 0.83%)	0.63% (0.61% - 0.64%)
3	2,296	1.04% (0.71% - 1.44%)	0.81% (0.79% - 0.83%)
4	2,139	1.49% (1.07% - 1.97%)	0.98% (0.96% - 1.00%)
5	2,016	1.82% (1.35% - 2.36%)	1.14% (1.12% - 1.17%)
6	1,901	1.86% (1.39% - 2.43%)	1.31% (1.28% - 1.33%)
7	1,751	2.19% (1.66% - 2.79%)	1.48% (1.46% - 1.51%)
8	1,584	2.48% (1.90% - 3.14%)	1.69% (1.66% - 1.72%)
9	1,407	2.68% (2.07% - 3.37%)	1.90% (1.87% - 1.93%)
10	1,232	2.96% (2.30% - 3.74%)	2.15% (2.11% - 2.18%)
11	1,073	3.04% (2.37% - 3.83%)	2.44% (2.40% - 2.48%)
12	938	3.24% (2.52% - 4.06%)	2.77% (2.73% - 2.82%)
13	818	3.35% (2.61% - 4.20%)	3.10% (3.04% - 3.15%)
14	680	3.61% (2.81% - 4.53%)	3.46% (3.40% - 3.52%)
15	515	4.09% (3.16% - 5.15%)	3.84% (3.77% - 3.91%)
16	295	4.29% (3.30% - 5.71%)	4.25% (4.17% - 4.34%)
17	140	4.29% (3.30% - 6.35%)	4.69% (4.59% - 4.79%)
18	62	4.29% (3.30% - 7.36%)	5.15% (5.03% - 5.26%)
19			5.59% (5.45% - 5.72%)
20			6.08% (5.91% - 6.25%)

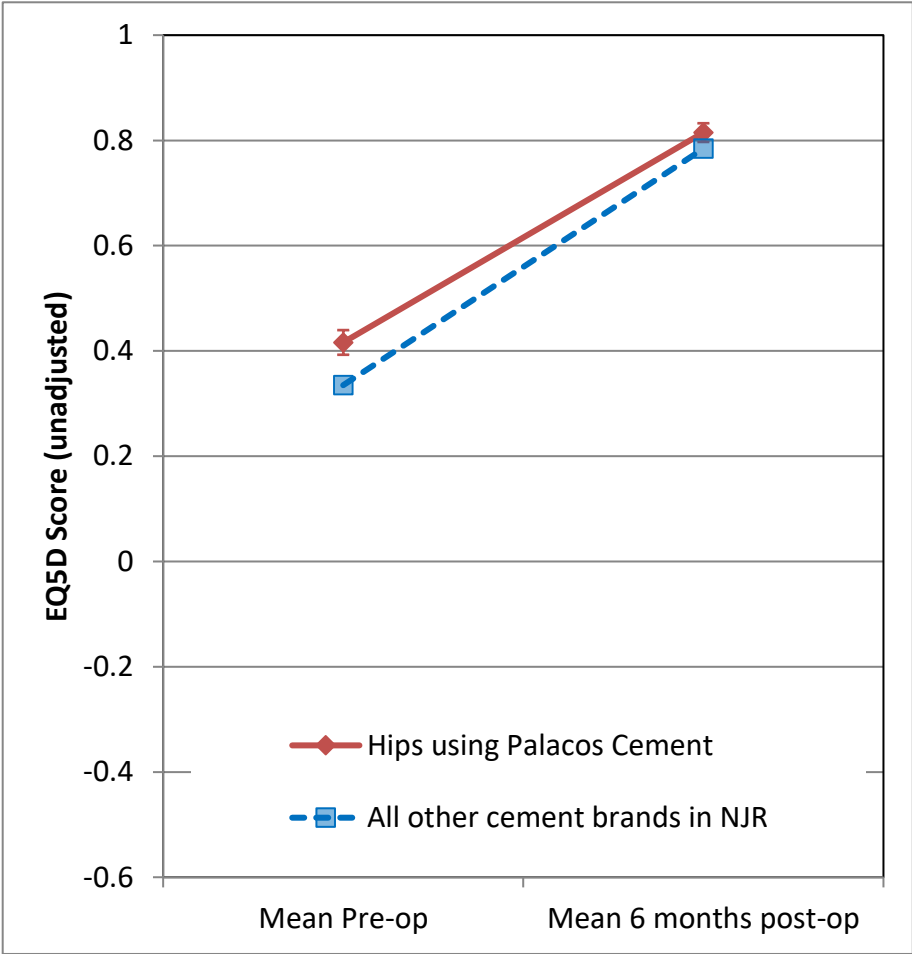
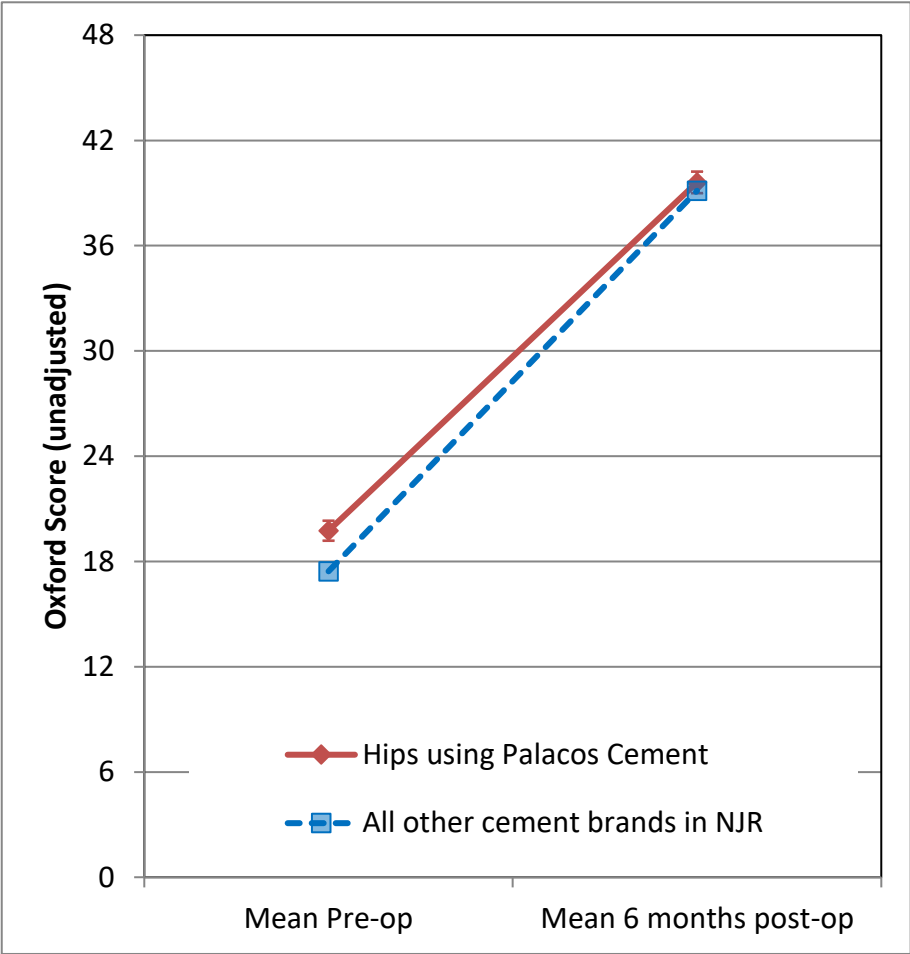
Cumulative revision rate with 95% confidence intervals

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

PROMs Analysis

Patient Reported Outcomes

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 Cement	All other cement brands in NJR	All THR in NJR
Paired Records	778	243,354	404,860
PreOp score	19.8 (19.2 - 20.3)	17.4 (17.4 - 17.5)	17.8 (17.8 - 17.9)
6 month score	39.6 (39.0 - 40.2)	39.1 (39.1 - 39.2)	39.6 (39.5 - 39.6)
6 month score (adjusted)	38.9 (38.3 - 39.5)	39.5 (39.4 - 39.5)	39.6 (39.5 - 39.6)
Health gain	19.9 (19.3 - 20.4)	21.7 (21.7 - 21.7)	21.7 (21.7 - 21.8)
Health gain (adjusted)	21.1 (20.4 - 21.8)	21.6 (21.6 - 21.7)	21.7 (21.7 - 21.8)
p value (adjusted health gain)	0.012		
Score Improved	95.8%	97.3%	97.3%

EQ-5D Index (-0.59 - 1.00)	Hips using Palacos Cement	All other cement brands in NJR	All THR in NJR
Paired Records	723	223,972	373,959
PreOp score	0.416 (0.393 - 0.440)	0.335 (0.334 - 0.336)	0.349 (0.348 - 0.350)
6 month score	0.815 (0.797 - 0.833)	0.784 (0.783 - 0.785)	0.794 (0.793 - 0.794)
6 month score (adjusted)	0.794 (0.778 - 0.810)	0.790 (0.790 - 0.791)	0.793 (0.793 - 0.794)
Health gain	0.399 (0.383 - 0.415)	0.449 (0.449 - 0.450)	0.445 (0.444 - 0.445)
Health gain (adjusted)	0.445 (0.420 - 0.470)	0.441 (0.440 - 0.443)	0.445 (0.443 - 0.446)
p value (adjusted health gain)	0.87		
Score Improved	87.8%	89.7%	89.8%

EQ-VAS (0 - 100)	Hips using Palacos Cement	All other cement brands in NJR	All THR in NJR
Paired Records	682	214,305	358,744
PreOp score	66.4 (64.7 - 68.0)	63.9 (63.8 - 64.0)	64.3 (64.2 - 64.4)
6 month score	77.1 (75.8 - 78.5)	76.1 (76.0 - 76.2)	76.8 (76.8 - 76.9)
6 month score (adjusted)	76.1 (74.9 - 77.4)	76.7 (76.6 - 76.8)	76.8 (76.8 - 76.9)
Health gain	10.8 (9.5 - 12.0)	12.3 (12.2 - 12.3)	12.6 (12.5 - 12.6)
Health gain (adjusted)	11.8 (10.1 - 13.6)	12.4 (12.3 - 12.5)	12.5 (12.5 - 12.6)
p value (adjusted health gain)	0.2		
Score Improved	63.0%	66.1%	66.9%

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

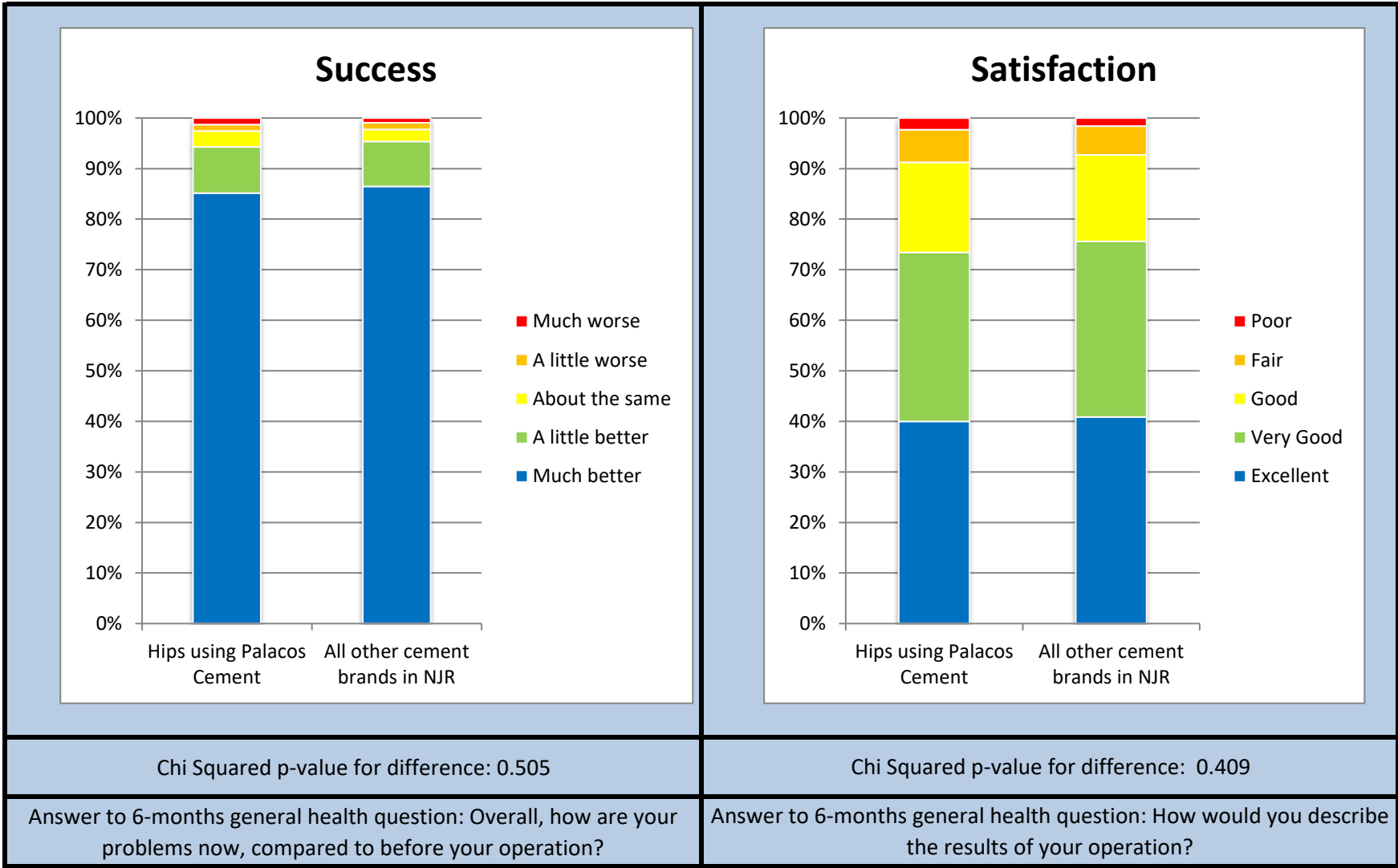
Figures in parentheses represent the 95% confidence interval for the mean

Summary Report for:

Responses are not case mix adjusted

Hips using Palacos Cement

Patient Reported Outcomes



Patient Reported Outcomes

Success

Response	Hips using Palacos Cement	All other cement brands in NJR
Much better	670	214918
A little better	72	22022
About the same	25	5951
A little worse	10	3344
Much worse	10	2284

Answer to 6-months general health question:

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

Satisfaction

Response	Hips using Palacos Cement	All other cement brands in NJR
Excellent	316	101361
Very Good	264	86250
Good	141	42425
Fair	51	14148
Poor	18	3933

Answer to 6-months general health question:

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

Disclaimer

Disclaimer

The data used for this analysis was obtained from the National Joint Registry ("NJR"), part of the Healthcare Quality Improvement Partnership ("HQIP"). HQIP, the NJR and/or its contractor, NEC Software Solutions (UK) Limited ("NEC") take no responsibility (except as prohibited by law) for the accuracy, currency, reliability and correctness of any data used or referred to in this report, nor for the accuracy, currency, reliability and correctness of links or references to other information sources and disclaims all warranties in relation to such data, links and references to the maximum extent permitted by legislation including any duty of care to third party readers of the data analysis.

To the maximum extent permitted by law, neither the NJR or NEC 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.

Appendix A: Component List

Catalogue Number	Description	Number Implanted
Cement		
66017777	PALACOS R 2x40 g	2328
66017778	PALACOS R 1x40 g	27
66017788	PALACOS LV 1x40 g	62
66031982	PALACOS MV 1x40 g	300
66031984	PALACOS MV plain 2x40g	2
Multiple Found	Multiple Found	2