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Implant Summary Report for:	Zimmer Biomet
	MS-30 Stem
Comprising PRIMARY hips implanted up to:	03 April 2024
NJR Database extract:	03 May 2024
Produced on:	23 May 2024
Licensed for use until:	23 May 2025
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This report has been produced by the National Joint Registry (NJR). It summarises usage and outcomes associated with the MS-30 Stem up to the specified dates. This analysis is based on data collected by the NJR and PROMs data collected by NHS Digital for the following combinations of products:

Femoral components MS-30 Stem

APPENDIX A - Component List

Acetabular Component Any Acetabular Component from all manufacturers

Appendix A lists details of all MS-30 Stem components included in this report.

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NJR Recorded Usage

Implant Usage

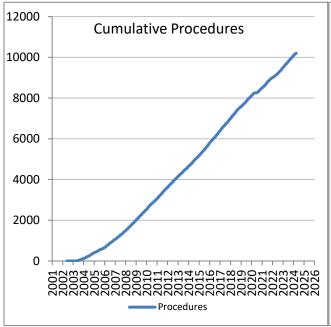
Date of first recorded usage in the NJR: 04 April 2003

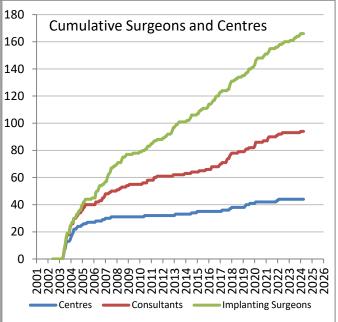
Date of last recorded usage in this dataset: 30 March 2024

Maximum implantation time: 21.0 years

Mean implantation time: 7.9 years

Totals Recorded in NJR	Cumulative Total
Procedures	10,203
Patients	8,900
Centres	44
Consultants	94
Implanting Surgeons	166





	Year of implantation														
Current Outcome	Pre- 2013	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total	%
Death	2012	156	170	116	127	107	80	49	18	18	15	7	0	2875	28.2%
Revised	125	10	6	10	7	7	5	5	4	1	5	4	1	190	1.9%
Unrevised	2011	337	356	483	466	491	499	482	367	493	470	574	109	7138	70.0%
Total	4148	503	532	609	600	605	584	536	389	512	490	585	110	10203	100%

Patient / Procedure Details

Patient Details

	MS-30 Stem	All other Cemented Stems in NJR	All NJR hip replacement
Total Procedures	10,203	897,291	1,618,736
Total Patients	8,900	776,216	1,340,433
Demographics			
Mean age	72.2	71.9	68.7
< 50	1.8%	3.0%	6.1%
50 – 59	8.8%	8.9%	14.6%
60 – 69	27.7%	25.2%	29.3%
70 – 79	39.6%	41.5%	34.6%
≥ 80	22.1%	21.4%	15.4%
Median BMI	27	28	28
% BMI information available	62.6%	66.6%	66.1%
Underweight (BMI < 18.5)	1.3%	1.0%	0.9%
Normal (18.5 ≤ BMI < 25)	25.7%	22.3%	20.9%
Overweight (25 ≤ BMI < 30)	40.7%	39.2%	39.2%
Obese I (30 ≤ BMI < 35)	22.0%	25.0%	25.8%
Obese II (35 ≤ BMI < 40)	7.3%	9.3%	10.0%
Obese III (BMI ≥ 40)	3.1%	3.1%	3.3%
% Male	33.3%	35.2%	40.2%
ASA Grades			
P1 - Fit and healthy	16.4%	10.6%	14.2%
P2 - Mild disease not incapacitating	66.3%	67.7%	67.9%
P3 - Incapacitating systemic disease	16.7%	21.0%	17.3%
P4 / P5	0.6%	0.8%	0.6%
Indications			
Osteoarthritis	93.17%	89.59%	91.19%
Rheumatoid Arthritis	0.99%	1.43%	1.29%
Avascular Necrosis	1.60%	2.74%	2.64%
Fractured Neck of Femur	3.42%	5.26%	3.69%
CDH/DDH	0.57%	1.16%	1.61%
Other	1.65%	2.46%	2.22%

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



Reasons for Revision - all bearing types

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

Reason for Revision	Revised [†]	Expected Revisions*	p value
Unexplained Pain	8	17.17	0.02
Dislocation / Subluxation	50	59.67	0.24
Adverse Soft Tissue Reaction	14	8.37	0.055
Infection	43	49.54	0.391
Aseptic Loosening - Stem	17	30.15	0.013
Aseptic Loosening - Socket	26	57.87	<0.001
Periprosthetic Fracture Stem	33	42.56	0.164
Periprosthetic Fracture Socket	0	4.14	0.041
Malalignment Stem	1	5.11	0.071
Malalignment Socket	6	10.50	0.211
Wear Of Acetabular Component	9	15.85	0.098
Lysis Stem	5	9.68	0.145
Lysis Socket	11	13.20	0.676
Implant Fracture Stem	5	6.16	0.839
Implant Fracture Socket	1	1.30	1
Implant Fracture Head	2	1.00	0.262
Dissociation of Liner	2	2.59	1
Other / reason not recorded	6	9.28	0.405
Total Revised	190	256.06	<0.001

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

Significantly better, p < 0.001
Significantly better, p < 0.05
Significantly worse p < 0.05
Significantly worse p < 0.001



Components Revised	Number of procedures	MS-30 Stem	All other Cemented Stems in NJR
Femoral only	41	22%	22%
Acetabular only	48	25%	23%
Both femoral and acetabular	76	40%	45%
Neither femoral nor acetabular revision recorded *	25	13%	10%

^{*} includes isolated head and/or liner exchange

^{*} Based on All NJR Cemented Stems, adjusted for agegroup, gender, indications, and implantation year

Reasons for Revision - excluding Metal on Metal

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

Reason for Revision	Revised [†]	Expected Revisions [*]	p value
Unexplained Pain	5	12.51	0.031
Dislocation / Subluxation	39	52.48	0.061
Adverse Soft Tissue Reaction	3	3.22	1
Infection	33	43.23	0.126
Aseptic Loosening - Stem	12	22.41	0.025
Aseptic Loosening - Socket	20	44.27	<0.001
Periprosthetic Fracture Stem	27	37.53	0.085
Periprosthetic Fracture Socket	0	3.69	0.058
Malalignment Stem	1	4.50	0.146
Malalignment Socket	2	8.92	0.011
Wear Of Acetabular Component	6	11.76	0.105
Lysis Stem	4	6.53	0.43
Lysis Socket	7	9.55	0.515
Implant Fracture Stem	2	4.59	0.342
Implant Fracture Socket	1	0.97	0.625
Implant Fracture Head	2	0.78	0.183
Dissociation of Liner	1	2.15	0.729
Other / reason not recorded	4	7.66	0.27
Total Revised	138	211.15	<0.001

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

Significantly better, p < 0.001 Significantly better, p < 0.05 Significantly worse p < 0.05 Significantly worse p < 0.001



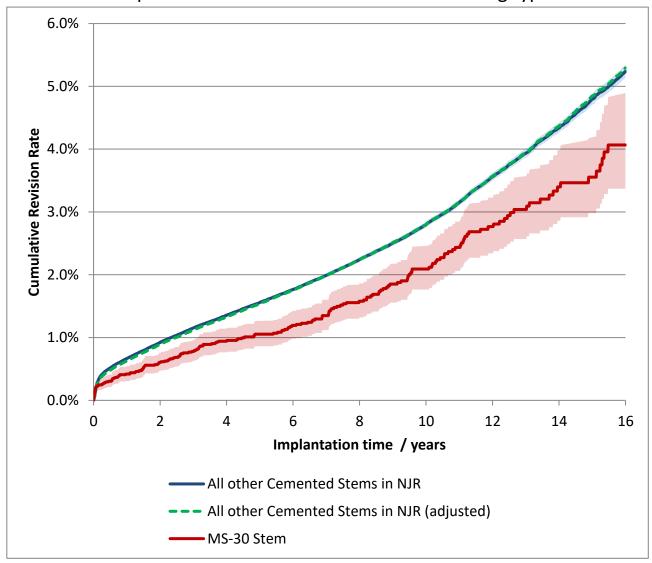
Components Revised	Number of procedures	MS-30 Stem	All other Cemented Stems in NJR
Femoral only	35	25%	23%
Acetabular only	30	22%	23%
Both femoral and acetabular	50	36%	44%
Neither femoral nor acetabular revision recorded *	23	17%	11%

^{*} includes isolated head and/or liner exchange

^{*} Based on All NJR Cemented Stems (excluding metal on metal), adjusted for agegroup, gender, indications, and implantation year

Cumulative Revision Rate

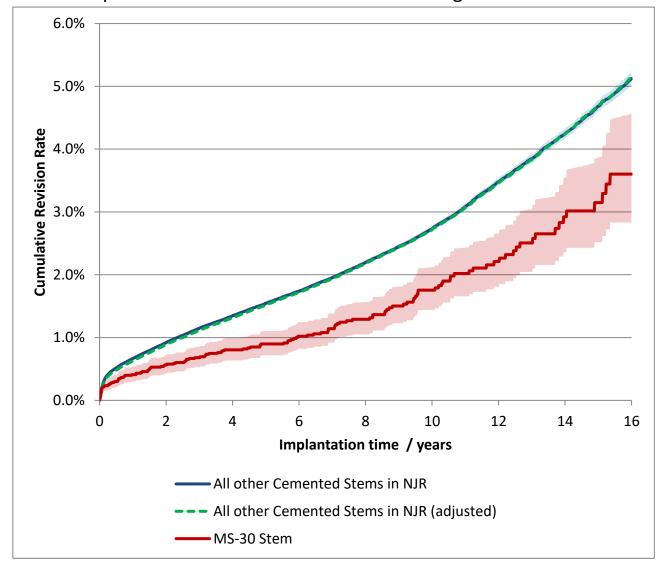
Endpoint: All reasons for revision. All Bearing types



Adjustment	Hazard Ratio (95% CI)	<i>p</i> -value
All bearings. Unadjusted.	0.74 (0.64 - 0.85)	<0.001
All bearings. Adjusted for age, gender, year cohort and indications.	0.74 (0.64 - 0.85)	<0.001

Cumulative Revision Rate

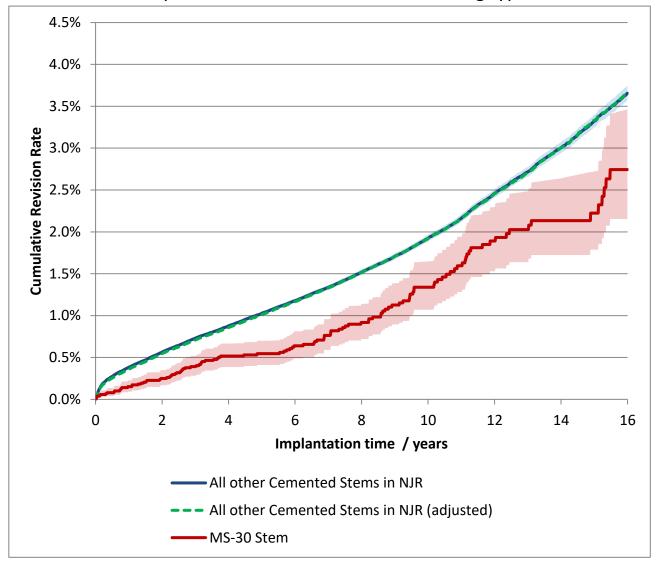
Endpoint: All reasons for revision. Excluding Metal-on-Metal



Adjustment	Hazard Ratio (95% CI)	<i>p</i> -value
Excluding MoM, Unadjusted.	0.63 (0.53 - 0.74)	<0.001
Excluding MoM. Adjusted for age, gender, year cohort and indications.	0.65 (0.55 - 0.77)	<0.001

Cumulative Revision Rate

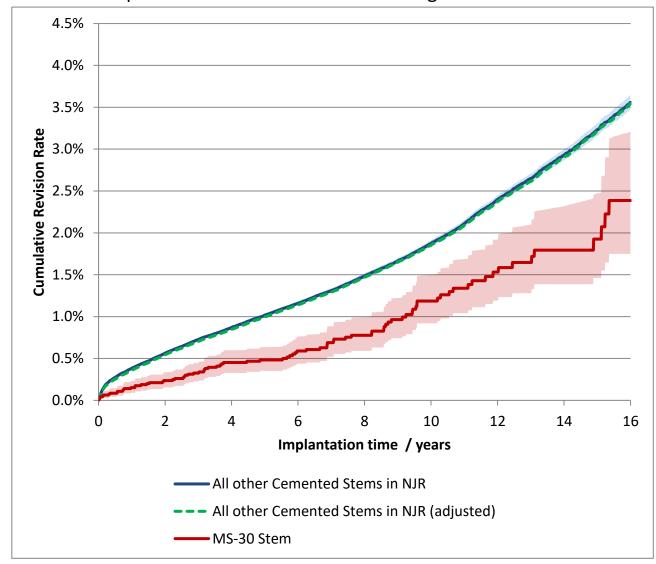
Endpoint: Femoral Revision. All Bearing types



Adjustment	Hazard Ratio (95% CI)	<i>p</i> -value
All bearings. Unadjusted.	0.67 (0.56 - 0.81)	<0.001
All bearings. Adjusted for age, gender, year cohort and indications.	0.68 (0.56 - 0.81)	<0.001

Cumulative Revision Rate

Endpoint: Femoral Revision. Excluding Metal-on-Metal



Adjustment	Hazard Ratio (95% CI)	<i>p</i> -value
Excluding MoM. Unadjusted.	0.58 (0.47 - 0.71)	<0.001
Excluding MoM. Adjusted for age, gender, year cohort and indications.	0.60 (0.49 - 0.75)	<0.001

Revision and Survivorship

Cumulative Revision Rate

Endpoint: All revisions

	All Bearing types			Excluding Metal on Metal Bearings			JS	
Period /years	At Risk	MS-30 Stem	All other Cemented Stems in NJR	All THR	At Risk	MS-30 Stem	All other Cemented Stems in NJR	All THR
0	10,203	-	-	-	9,433	-	-	-
1	9,488	0.4% (0.3% - 0.5%)	0.7% (0.6% - 0.7%)	0.8% (0.8% - 0.8%)	8,727	0.4% (0.3% - 0.5%)	0.7% (0.6% - 0.7%)	0.8% (0.7% - 0.8%)
2	8,785	0.6% (0.5% - 0.8%)	0.9% (0.9% - 0.9%)	1.1% (1.1% - 1.1%)	8,040	0.6% (0.4% - 0.7%)	0.9% (0.9% - 0.9%)	1.0% (1.0% - 1.1%)
3	8,129	0.8% (0.6% - 1.0%)	1.2% (1.1% - 1.2%)	1.4% (1.4% - 1.4%)	7,409	0.7% (0.5% - 0.9%)	1.1% (1.1% - 1.2%)	1.3% (1.3% - 1.3%)
4	7,552	0.9% (0.8% - 1.1%)	1.4% (1.3% - 1.4%)	1.7% (1.6% - 1.7%)	6,852	0.8% (0.6% - 1.0%)	1.3% (1.3% - 1.4%)	1.5% (1.5% - 1.5%)
5	6,823	1.1% (0.9% - 1.3%)	1.6% (1.5% - 1.6%)	2.0% (1.9% - 2.0%)	6,140	0.9% (0.7% - 1.1%)	1.5% (1.5% - 1.6%)	1.7% (1.7% - 1.7%)
6	6,135	1.2% (1.0% - 1.4%)	1.8% (1.7% - 1.8%)	2.3% (2.2% - 2.3%)	5,472	1.0% (0.8% - 1.2%)	1.7% (1.7% - 1.8%)	1.9% (1.9% - 1.9%)
7	5,418	1.3% (1.1% - 1.6%)	2.0% (2.0% - 2.0%)	2.6% (2.6% - 2.6%)	4,774	1.1% (0.9% - 1.4%)	2.0% (1.9% - 2.0%)	2.1% (2.1% - 2.1%)
8	4,681	1.6% (1.3% - 1.9%)	2.2% (2.2% - 2.3%)	2.9% (2.9% - 3.0%)	4,060	1.3% (1.0% - 1.6%)	2.2% (2.2% - 2.2%)	2.3% (2.3% - 2.4%)
9	3,981	1.9% (1.6% - 2.2%)	2.5% (2.5% - 2.5%)	3.3% (3.3% - 3.3%)	3,384	1.5% (1.2% - 1.8%)	2.4% (2.4% - 2.5%)	2.6% (2.6% - 2.6%)
10	3,372	2.1% (1.8% - 2.5%)	2.8% (2.8% - 2.8%)	3.7% (3.6% - 3.7%)	2,805	1.8% (1.4% - 2.1%)	2.7% (2.7% - 2.8%)	2.9% (2.8% - 2.9%)
11	2,825	2.4% (2.1% - 2.8%)	3.2% (3.1% - 3.2%)	4.1% (4.0% - 4.1%)	2,290	2.0% (1.7% - 2.4%)	3.1% (3.0% - 3.1%)	3.2% (3.1% - 3.2%)
12	2,311	2.8% (2.3% - 3.2%)	3.6% (3.5% - 3.6%)	4.5% (4.5% - 4.6%)	1,812	2.2% (1.8% - 2.7%)	3.5% (3.4% - 3.5%)	3.6% (3.5% - 3.6%)
13	1,832	3.0% (2.6% - 3.6%)	3.9% (3.9% - 4.0%)	5.0% (4.9% - 5.0%)	1,369	2.5% (2.0% - 3.0%)	3.8% (3.8% - 3.9%)	3.9% (3.9% - 4.0%)
14	1,440	3.4% (2.9% - 4.0%)	4.3% (4.3% - 4.4%)	5.4% (5.4% - 5.5%)	1,030	2.9% (2.4% - 3.6%)	4.2% (4.2% - 4.3%)	4.3% (4.3% - 4.4%)
15	1,037	3.6% (3.0% - 4.2%)	4.8% (4.7% - 4.9%)	5.9% (5.9% - 6.0%)	701	3.1% (2.5% - 3.9%)	4.7% (4.6% - 4.8%)	4.7% (4.7% - 4.8%)

Cumulative revision rate with 95% confidence intervals

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



Revision and Survivorship

Cumulative Revision Rate

Endpoint: Femoral Revision

	All Bearing types				Excluding Metal on Metal Bearings			js .
Period /years	At Risk	MS-30 Stem	All other Cemented Stems in NJR	All THR	At Risk	MS-30 Stem	All other Cemented Stems in NJR	All THR
0	10,203	-	-	-	9,433	-	-	-
1	9,488	0.2% (0.1% - 0.2%)	0.4% (0.4% - 0.4%)	0.5% (0.5% - 0.5%)	8,727	0.2% (0.1% - 0.2%)	0.4% (0.4% - 0.4%)	0.4% (0.4% - 0.5%)
2	8,785	0.2% (0.2% - 0.3%)	0.6% (0.5% - 0.6%)	0.7% (0.7% - 0.7%)	8,040	0.2% (0.2% - 0.3%)	0.6% (0.5% - 0.6%)	0.6% (0.6% - 0.6%)
3	8,129	0.4% (0.3% - 0.5%)	0.7% (0.7% - 0.7%)	0.9% (0.9% - 0.9%)	7,409	0.3% (0.2% - 0.4%)	0.7% (0.7% - 0.7%)	0.8% (0.8% - 0.8%)
4	7,552	0.5% (0.4% - 0.7%)	0.9% (0.9% - 0.9%)	1.1% (1.1% - 1.1%)	6,852	0.5% (0.3% - 0.6%)	0.9% (0.8% - 0.9%)	0.9% (0.9% - 1.0%)
5	6,823	0.5% (0.4% - 0.7%)	1.0% (1.0% - 1.1%)	1.3% (1.2% - 1.3%)	6,140	0.5% (0.4% - 0.6%)	1.0% (1.0% - 1.0%)	1.1% (1.1% - 1.1%)
6	6,135	0.6% (0.5% - 0.8%)	1.2% (1.2% - 1.2%)	1.5% (1.5% - 1.5%)	5,472	0.6% (0.4% - 0.8%)	1.2% (1.1% - 1.2%)	1.2% (1.2% - 1.2%)
7	5,418	0.8% (0.6% - 1.0%)	1.3% (1.3% - 1.4%)	1.7% (1.7% - 1.7%)	4,774	0.7% (0.5% - 0.9%)	1.3% (1.3% - 1.3%)	1.4% (1.3% - 1.4%)
8	4,681	0.9% (0.7% - 1.1%)	1.5% (1.5% - 1.6%)	1.9% (1.9% - 1.9%)	4,060	0.8% (0.6% - 1.0%)	1.5% (1.5% - 1.5%)	1.5% (1.5% - 1.6%)
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11	2,825	1.6% (1.3% - 1.9%)	2.2% (2.1% - 2.2%)	2.7% (2.7% - 2.7%)	2,290	1.3% (1.0% - 1.7%)	2.1% (2.1% - 2.2%)	2.1% (2.1% - 2.1%)
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14	1,440	2.1% (1.7% - 2.6%)	3.0% (2.9% - 3.1%)	3.7% (3.6% - 3.7%)	1,030	1.8% (1.4% - 2.3%)	2.9% (2.9% - 3.0%)	2.9% (2.8% - 2.9%)
15	1,037	2.2% (1.8% - 2.7%)	3.3% (3.2% - 3.4%)	4.0% (4.0% - 4.1%)	701	1.9% (1.5% - 2.5%)	3.2% (3.2% - 3.3%)	3.2% (3.1% - 3.2%)

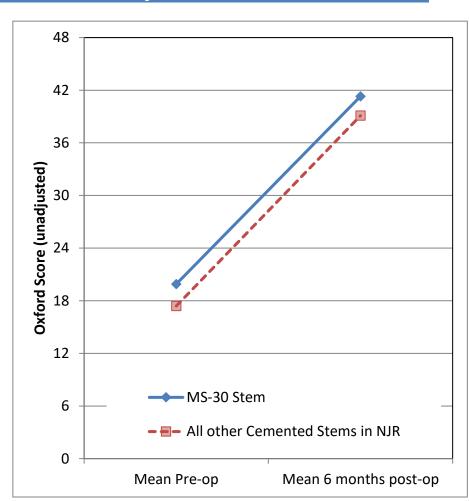
Cumulative revision rate with 95% confidence intervals

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

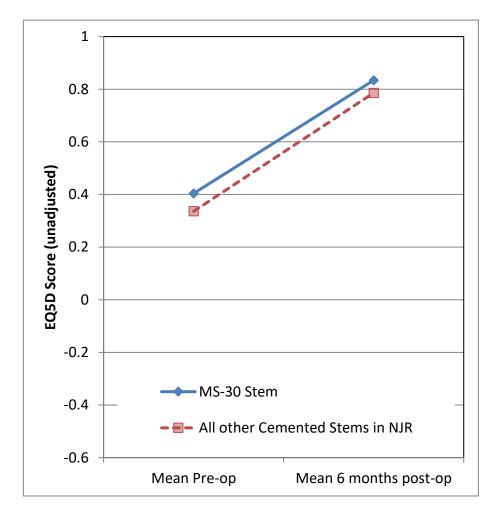


Patient Reported Outcomes

PROMs Analysis



Comprising PROMs data up to and including: 31/03/2022



Patient Reported Outcomes

PROMs Analysis

Comprising PROMs data up to and including: 31/03/2022

Oxford Hip Score (0 - 48)	MS-30 Stem	All other Cemented Stems in NJR	All THR in NJR
Paired Records	2,168	201,893	367,526
PreOp score	19.9 (19.5 - 20.2)	17.4 (17.4 - 17.5)	17.9 (17.9 - 17.9)
6 month score	41.3 (41.0 - 41.6)	39.1 (39.1 - 39.2)	39.6 (39.5 - 39.6)
6 month score (adjusted)	40.4 (40.1 - 40.7)	39.5 (39.5 - 39.5)	39.6 (39.5 - 39.6)
Health gain	21.4 (21.0 - 21.8)	21.7 (21.6 - 21.7)	21.7 (21.6 - 21.7)
Health gain (adjusted)	22.5 (22.2 - 22.7)	21.6 (21.6 - 21.6)	21.7 (21.6 - 21.7)
p value (adjusted health gain)	< 0.001		
Score Improved	98.2%	97.4%	97.3%

EQ-5D Index (-0.59 - 1.00)	MS-30 Stem	All other Cemented Stems in NJR	All THR in NJR
Paired Records	1,997	185,549	338,996
PreOp score	0.404 (0.390 - 0.418)	0.336 (0.335 - 0.338)	0.353 (0.351 - 0.354)
6 month score	0.834 (0.825 - 0.844)	0.786 (0.785 - 0.787)	0.795 (0.794 - 0.796)
6 month score (adjusted)	0.811 (0.803 - 0.820)	0.793 (0.792 - 0.794)	0.795 (0.794 - 0.796)
Health gain	0.430 (0.416 - 0.444)	0.449 (0.448 - 0.451)	0.442 (0.441 - 0.444)
Health gain (adjusted)	0.459 (0.450 - 0.468)	0.440 (0.439 - 0.441)	0.442 (0.442 - 0.443)
p value (adjusted health gain)	< 0.001		
Score Improved	91.4%	89.8%	89.7%

EQ-VAS (0 - 100)	MS-30 Stem	All other Cemented Stems in NJR	All THR in NJR
Paired Records	1,921	177,835	325,938
PreOp score	66.9 (66.0 - 67.8)	64.1 (64.0 - 64.2)	64.6 (64.5 - 64.7)
6 month score	79.0 (78.3 - 79.8)	76.3 (76.2 - 76.4)	77.0 (76.9 - 77.1)
6 month score (adjusted)	77.7 (77.0 - 78.3)	76.9 (76.8 - 77.0)	77.0 (76.9 - 77.1)
Health gain	12.1 (11.2 - 13.1)	12.1 (12.0 - 12.2)	12.4 (12.3 - 12.5)
Health gain (adjusted)	13.1 (12.4 - 13.7)	12.3 (12.2 - 12.4)	12.4 (12.3 - 12.5)
p value (adjusted health gain)	0.14		
Score Improved	67.4%	65.9%	66.7%

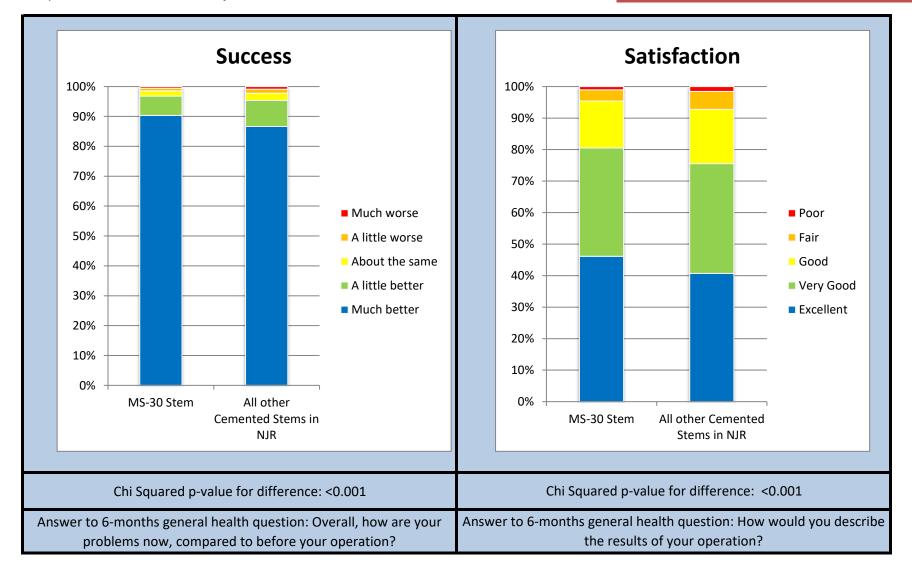
Adjusted scores correspond to the NHS Digital version 3 casemix-adjustment model. This includes patient variables from PROMs, HES, and IMD data.

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



Responses are not case mix adjusted

Patient Reported Outcomes





Patient Reported Outcomes

Success

Response	MS-30 Stem	All other Cemented Stems in NJR
Much better	1973	178656
A little better	141	18044
About the same	39	4912
A little worse	19	2758
Much worse	12	1814

Answer to 6-months general health question:

Satisfaction

Response	MS-30 Stem	All other Cemented Stems in NJR
Excellent	1004	83761
Very Good	748	71733
Good	324	35456
Fair	77	11746
Poor	23	3165

Answer to 6-months general health question:

[&]quot;Overall, how are your problems now, compared to before your operation?"

[&]quot;How would you describe the results of your operation?"

Summary Report for:

Disclaimer

Disclaimer

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Appendix A: Component List

Catalogue Number

Description

Number Implanted

Catalogue Nur	n Description	Number
Stem		
0100351001	MS-30 STEM LATERAL 6.0 mm	812
0100351002	MS-30 STEM LATERAL 8.0 mm	1735
0100351003	MS-30 STEM LATERAL 10.0 mm	1108
0100351004	MS-30 STEM LATERAL 12.0 mm	229
0100351005	MS-30 STEM LATERAL 14.0 mm	25
0100351006	MS-30 STEM LATERAL 16.0 mm	7
300049060	MS-30 STEM POLISHED 6.0 mm	1630
300049080	MS-30 STEM POLISHED 8.0 mm	2717
300049100	MS-30 STEM POLISHED 10.0 mm	1518
300049120	MS-30 STEM POLISHED 12.0 mm	361
300049140	MS-30 STEM POLISHED 14.0 mm	50
300049160	MS-30 STEM POLISHED 16.0 mm	11
Stem Proximal		
00-5850-032-38	Segmental Proximal TM Femur 38mm offset	1
Head		
00-8018-028-02	12/14 COCR FEMORAL HEAD 28MM+0	2
00-8775-028-01	Biolox Delta Ceramic Femoral Head 12/14 Taper -3.5 28mm	40
00-8775-028-02	Biolox Delta Ceramic Femoral Head 12/14 Taper 0 28mm	314
00-8775-028-03	Biolox Delta Ceramic Femoral Head 12/14 Taper +3.5 28mm	34
00-8775-032-01	Biolox Delta Ceramic Femoral Head 12/14 Taper -3.5 32mm	284
00-8775-032-02	Biolox Delta Ceramic Femoral Head 12/14 Taper 0 32mm	1886
00-8775-032-03	Biolox Delta Ceramic Femoral Head 12/14 Taper +3.5 32mm	173
00-8775-032-04	Biolox Delta Ceramic Femoral Head 12/14 Taper +7 32mm	4
00-8775-036-01	Biolox Delta Ceramic Femoral Head 12/14 Taper -3.5 36mm	251
00-8775-036-02	Biolox Delta Ceramic Femoral Head 12/14 Taper 0 36mm	607
00-8775-036-03	Biolox Delta Ceramic Femoral Head 12/14 Taper +3.5 36mm	143
00-8775-036-04	Biolox Delta Ceramic Femoral Head 12/14 Taper +7 36mm	8
01.00181.420	Metasul Large Ball Head 42mm	2
01.00181.440	Metasul Large Ball Head 44/J	3
01.00181.460	METASUL large diameter Head 46	6
01.00181.480	METASUL LARGE HEAD 48	5
01.00181.500	Metasul Large Head 50	9
01.00181.520	METASUL large diameter Head 52	2
01.00181.540	Metasul Head 54 Code T 18/20 Uncemented	1
01.01012.328	Durasul 12/14 Taper CoCr Femoral Head 32MM+8	6
01.01012.365	CoCrMo Head 36/-4 S Taper 12/14	60
01.01012.366	METALLIC HEAD 36/0 TAPER	174
01.01012.367	cocr head +4 12/14 taper	54
01.01012.368	Durasul 12/14 Taper CoCr Femoral Head 36MM+8	6
14280520	BALL HEAD P20 Ñ 28 mm / S	63
14280620	BALL HEAD P20 Ñ 28 mm / M	257
14280720	BALL HEAD P20 Ñ 28 mm / L	38

Appendix A: Component List

14320520	BALL HEAD P20 Ñ 32 mm / S	133
14320620	BALL HEAD P20 Ñ 32 mm / M	753
14320720	BALL HEAD P20 Ñ 32 mm / L	120
17.28.05	28/SHORT SULOX CERAMIC HEAD	126
17.28.06	28/MEDIUM SULOX CERAMIC HEAD	971
17.28.07	28/LONG SULOX CERAMIC HEAD	60
17.32.05	SULOX BALL HEAD 32/S	59
17.32.06	SULOX BALL HEAD 32/M	865
17.32.07	SULOX BALL HEAD 32/L	66
19.28.05	METASUL BALL HEAD 28/S	125
19.28.06	METASUL BALL HEAD 28/M	400
19.28.07	METASUL BALL HEAD 28/ L	70
19.32.05	Metasul 32mm short (-4mm) head	6
19.32.06	Metasul Head 32/0 M tAPER 12/14	62
19.32.07	Metasul 32mm large head	13
19.32.08	Metasul Head 32/+8 XL Taper 12/14 CoCrMo	3
302205	22MM/BALL HEAD S30 SHORT	18
302206	22MM/BALL HEAD S30 MEDIUM	18
302207	22MM/BALL HEAD S30 LONG	2
302805	BALL HEAD S30 28mm/S	119
302806	28mm/MEDIUM S30 BALL HEAD	391
302807	28mm/LONG S30 BALL HEAD	67
303205	BALL HEAD S30 32mm/S	52
303206	BALL HEAD S30 32mm/M	765
303207	BALL HEAD S30 32mm/L	58
407.0101	Cerasul Ball Head 28 S	1
407.0102	Cerasul Ball Head 28 M	20
6428-28-02	Alumina ceramic femoral head 12/14 taper 28mm +0mm	6
6428-28-03	Alumina ceramic femoral head 12/14 taper 28mm +3.5mm	1
6428-32-01	Alumina ceramic femoral head 12/14 taper 32mm -3.5mm	1
6428-32-02	Alumina ceramic femoral head 12/14 taper 32mm +0mm	13
8018-22-02	0 x 22mm Diameter Neck Length	2
8018-22-20	22.25mm Diameter -2mm Neck Length	3
8018-26-02	26mm Diameter 0mm Neck Length	2
8018-26-03	26mm Diameter +3.5mm Neck Length	4
8018-28-01	28mm Diameter -3.5mm Neck Length	10
8018-28-02	28mm Diameter 0mm Neck Length	13
8018-28-03	28mm Diameter +3.5mm Neck Length	4
8018-28-14	28mm Diameter +7mm Neck Length	3
8018-32-01	32mm Diameter -3.5mm Neck Length	8
8018-32-02	32mm Diameter 0mm Neck Length	29
8018-32-03	32mm Diameter +3.5mm Neck Length	3
8018-36-01	Modular head 12/14 taper-36mm -3.5	17
8018-36-02	Modular head 12/14 taper-36mm 0	100
8018-36-03	Modular head 12/14 taper-36mm +3.5	24
8018-36-04	Modular head 12/14 taper -36mm +7	1



Appendix A: Component List

8018-40-03	Modular head 12/14 taper 40mm +3.5	1
802203202	ZB 12/14 COCR HD 32MM X +0	6
802203602	ZB 12/14 COCR HD 36MM X +0	15
802203603	ZB 12/14 COCR HD 36MM X +3.5	7
Stem Centralizer		
01.00351.014	DISTAL CENTRALIZERS (WINGED) SIZE 10/14	193
01.00351.216	DISTAL CENTRALIZERS (WINGED) SIZE 12/16	28
01.00351.416	DISTAL CENTRALIZERS (WINGED) SIZE 14/16	42
01.00351.418	DISTAL CENTRALIZERS (WINGED) SIZE 14/18	11
01.00351.618	DISTAL CENTRALIZERS (WINGED) SIZE 16/18	8
01.00351.620	DISTAL CENTRALIZERS (WINGED) SIZE 16/20	2
01.00356.010	DISTAL CENTRALIZERS (WINGED) SIZE 6/10	576
01.00356.055	MS-30 Proximal positioner 6 Standard	4
01.00358.012	DISTAL CENTRALIZERS (WINGED) SIZE 8/12	390
0100351012	DISTAL CENTRALIZERS (WINGED) SIZE 10/12	1845
0100351214	DISTAL CENTRALIZERS (WINGED) SIZE 12/14	399
0100356008	DISTAL CENTRALIZERS (WINGED) SIZE 6/8	1599
0100358010	DISTAL CENTRALIZERS (WINGED) SIZE 8/10	3434
164247	Distal Centralizer Stanmore Fem Sz 2	1
300108	DISTAL CENTRALIZERS (1 PIECE) Ñ 8 mm L:	148
300110	DISTAL CENTRALIZERS (1 PIECE) Ñ 10 mm L	389
300112	DISTAL CENTRALIZERS (1 PIECE) Ñ 12 mm L	351
300114	DISTAL CENTRALIZERS (1 PIECE) Ñ 14 mm L	113
300116	DISTAL CENTRALIZERS (1 PIECE) Ñ 16 mm L	24
300118	DISTAL CENTRALIZERS (1 PIECE) Ñ 18 mm L	3
Femoral Canal Plug		
3203	SIZE 3 INTRAMEDULLARY PLUG	2
3204	SIZE 4 INTRAMEDULLARY PLUG	15
3222	SIZE 2 IM.PLUG WITH DRAIN	21
3223	SIZE 3 IM.PLUG WITH DRAIN	419
3224	SIZE 4 IM.PLUG WITH DRAIN	206
3225	SIZE 5 IM.PLUG WITH DRAIN	77
3226	SIZE 6 IM.PLUG WITH DRAIN	5
3228	SIZE 2.5 IM.PLUG WITH DRAIN	183
3229	SIZE 3.5 IM.PLUG WITH DRAIN	316
4361	SCANDIMED OPTIPLUG CEMENT RESECTOR 10MM	4
4362	SCANDIMED OPTIPLUG CEMENT RESECTOR 12MM	3
4363	SCANDIMED OPTIPLUG CEMENT RESECTOR 14MM	1
4364	SCANDIMED OPTIPLUG CEMENT RESECTOR 16MM	1
8011-10-24	Bone Plug 12mm	1
8011-20-20	Allen medullary plug 10cx20mm	19
8011-20-24	Allen medullary pulg 12cx24mm	23
8011-20-28	Allen medullary plug 14cx28mm	17
8011-20-32	Allen medullary plug 16cx32mm	6

