

Implant Summary Report for: Implantcast GmbH

EcoFit Cup HA

Comprising PRIMARY hips implanted up to: 06 December 2019

NJR Database extract: 04 February 2020

Produced on: 15 February 2020

Licensed for use until: 15 June 2020

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This report has been produced by the National Joint Registry of England, Wales and Northern Ireland (NJR). It summarises usage and outcomes associated with the EcoFit Cup HA 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:

Acetabular components EcoFit Cup HA

Femoral Component Any Femoral Components manufactured by Implantcast GmbH

Appendix A lists details of all EcoFit Cup HA components included in this report.

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NJR Recorded Usage

Implant Usage

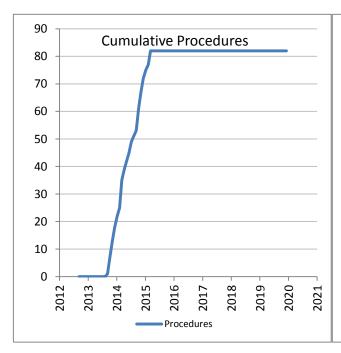
Date of first recorded usage in the NJR: 05 September 2013

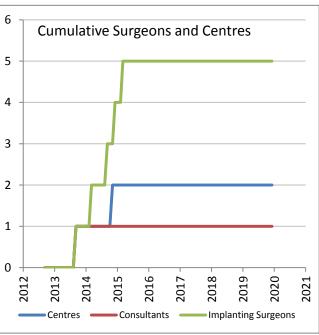
Date of last recorded usage in this dataset: 04 March 2015

Maximum implantation time: 6.3 years

Mean implantation time: 5.2 years

| Totals Recorded in NJR | Cumulative Total |
|------------------------|------------------|
| Procedures | 82 |
| Patients | 82 |
| Centres | 2 |
| Consultants | 1 |
| Implanting Surgeons | 5 |





| | Year of implantation | | | | | | | | | | | | | | |
|--------------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Current Outcome | Pre- 2008 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Total | % |
| Death | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 10 | 12.2% |
| Revised | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2.4% |
| Unrevised | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 45 | 6 | 0 | 0 | 0 | 0 | 70 | 85.4% |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 53 | 7 | 0 | 0 | 0 | 0 | 82 | 100% |

Patient / Procedure Details

Patient Details

| Total Patients 82 658,598 1,017,482 Demographics Mean age 71.1 66.1 68.6 50 - 59 4.9% 8.3% 5.9% 60 - 69 39.0% 32.4% 29.0% 70 - 79 35.4% 29.7% 34.7% 60 - 69 19.5% 11.5% 16.6% Median BMI 27 28 28 % BMI information available 32.9% 64.1% 62.0% Underweight (BMI < 18.5) 3.7% 0.8% 0.9% Normal (18.5 ≤ BMI < 30) 44.4% 39.4% 39.6% Overweight (25 ≤ BMI < 30) 44.4% 39.4% 39.6% Obese I (30 ≤ BMI < 35) 18.5% 26.2% 25.8% Obese II (35 ≤ BMI < 40) 3.7% 10.2% 9.7% Obese III (BMI ≥ 40) 3.7% 3.5% 3.3% % Male 51.2% 43.7% 40.2% Fit and healthy 6.1% 18.4% 15.7% P2 - Mild disease not inc | | EcoFit Cup HA | All other Cementless Cups in NJR | All NJR hip replacement |
|--|--------------------------------------|---------------|--|-------------------------|
| Demographics Mean age 71.1 66.1 68.6 \$ 50 1.2% 8.3% 5.9% \$ 50 - 59 4.9% 18.1% 13.8% \$ 60 - 69 39.0% 32.4% 29.0% \$ 70 - 79 35.4% 29.7% 34.7% \$ 80 19.5% 11.5% 16.6% Median BMI 27 28 28 \$ 8MI information available 32.9% 64.1% 62.0% Underweight (BMI < 18.5) | Total Procedures | 82 | 772,646 | 1,204,099 |
| Mean age 71.1 66.1 68.6 < 50 | Total Patients | 82 | 658,598 | 1,017,482 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Demographics | | | |
| | Mean age | 71.1 | 66.1 | 68.6 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | < 50 | 1.2% | 8.3% | 5.9% |
| 70 − 79 35.4% 29.7% 34.7% \geq 80 19.5% 11.5% 16.6% Median BMI 27 28 28 % BMI information available 32.9% 64.1% 62.0% Underweight (BMI < 18.5) | 50 – 59 | 4.9% | 18.1% | 13.8% |
| ≥ 80 19.5% 11.5% 16.6% Median BMI 27 28 28 % BMI information available 32.9% 64.1% 62.0% Underweight (BMI < 18.5) | 60 – 69 | 39.0% | 32.4% | 29.0% |
| Median BMI 27 28 28 % BMI information available 32.9% 64.1% 62.0% Underweight (BMI < 18.5) | 70 – 79 | 35.4% | 29.7% | 34.7% |
| % BMI information available 32.9% 64.1% 62.0% Underweight (BMI < 18.5) | ≥ 80 | 19.5% | 11.5% | 16.6% |
| Underweight (BMI < 18.5) 3.7% 0.8% 0.9% Normal (18.5 ≤ BMI < 25) | Median BMI | 27 | 28 | 28 |
| Normal (18.5 ≤ BMI < 25) | % BMI information available | 32.9% | 64.1% | 62.0% |
| Overweight (25 ≤ BMI < 30) | Underweight (BMI < 18.5) | 3.7% | 0.8% | 0.9% |
| Obese I (30 ≤ BMI < 35) 18.5% 26.2% 25.8% Obese II (35 ≤ BMI < 40) | Normal (18.5 ≤ BMI < 25) | 25.9% | 19.9% | 20.7% |
| Obese II (35 ≤ BMI < 40) 3.7% 10.2% 9.7% Obese III (BMI ≥ 40) 3.7% 3.5% 3.3% % Male 51.2% 43.7% 40.2% ASA Grades P1 - Fit and healthy 6.1% 18.4% 15.7% P2 - Mild disease not incapacitating 69.5% 67.5% 67.6% P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Overweight (25 ≤ BMI < 30) | 44.4% | 39.4% | 39.6% |
| Obese III (BMI ≥ 40) 3.7% 3.5% 3.3% % Male 51.2% 43.7% 40.2% ASA Grades P1 - Fit and healthy 6.1% 18.4% 15.7% P2 - Mild disease not incapacitating 69.5% 67.5% 67.6% P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Obese I (30 ≤ BMI < 35) | 18.5% | 26.2% | 25.8% |
| % Male 51.2% 43.7% 40.2% ASA Grades P1 - Fit and healthy 6.1% 18.4% 15.7% P2 - Mild disease not incapacitating 69.5% 67.5% 67.6% P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Obese II (35 ≤ BMI < 40) | 3.7% | 10.2% | 9.7% |
| ASA Grades P1 - Fit and healthy 6.1% 18.4% 15.7% P2 - Mild disease not incapacitating 69.5% 67.5% 67.6% P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Obese III (BMI ≥ 40) | 3.7% | 3.5% | 3.3% |
| P1 - Fit and healthy 6.1% 18.4% 15.7% P2 - Mild disease not incapacitating 69.5% 67.5% 67.6% P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | % Male | 51.2% | 43.7% | 40.2% |
| P2 - Mild disease not incapacitating 69.5% 67.5% 67.6% P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | ASA Grades | | | |
| P3 - Incapacitating systemic disease 24.4% 13.7% 16.1% P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | P1 - Fit and healthy | 6.1% | 18.4% | 15.7% |
| P4 / P5 0.0% 0.4% 0.6% Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | P2 - Mild disease not incapacitating | 69.5% | 67.5% | 67.6% |
| Indications Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | P3 - Incapacitating systemic disease | 24.4% | 13.7% | 16.1% |
| Osteoarthritis 89.02% 91.81% 91.50% Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | P4 / P5 | 0.0% | 0.4% | 0.6% |
| Rheumatoid Arthritis 0.00% 1.28% 1.32% Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Indications | | | |
| Avascular Necrosis 9.76% 2.64% 2.50% Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Osteoarthritis | 89.02% | 91.81% | 91.50% |
| Fractured Neck of Femur 2.44% 2.94% 3.45% CDH/DDH 3.66% 2.08% 1.57% | Rheumatoid Arthritis | 0.00% | 1.28% | 1.32% |
| CDH/DDH 3.66% 2.08% 1.57% | Avascular Necrosis | 9.76% | 2.64% | 2.50% |
| · | Fractured Neck of Femur | 2.44% | 2.94% | 3.45% |
| Other 1.22% 1.97% 2.12% | CDH/DDH | 3.66% | 2.08% | 1.57% |
| 23.73 | Other | 1.22% | 1.97% | 2.12% |

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 | 0 | 0.09 | 1 |
| Dislocation / Subluxation | 0 | 0.34 | 1 |
| Adverse Soft Tissue Reaction | 0 | 0.04 | 1 |
| Infection | 0 | 0.32 | 1 |
| Aseptic Loosening - Stem | 0 | 0.19 | 1 |
| Aseptic Loosening - Socket | 0 | 0.06 | 1 |
| Periprosthetic Fracture Stem | 1 | 0.32 | 0.276 |
| Periprosthetic Fracture Socket | 0 | 0.04 | 1 |
| Malalignment Stem | 0 | 0.05 | 1 |
| Malalignment Socket | 0 | 0.07 | 1 |
| Wear Of Acetabular Component | 0 | 0.05 | 1 |
| Lysis Stem | 0 | 0.02 | 1 |
| Lysis Socket | 0 | 0.01 | 1 |
| Implant Fracture Stem | 0 | 0.01 | 1 |
| Implant Fracture Socket | 0 | 0.02 | 1 |
| Implant Fracture Head | 0 | 0.00 | 1 |
| Dissociation of Liner | 1 | 0.04 | 0.035 |
| Other / reason not recorded | 0 | 0.07 | 1 |
| Total Revised | 2 | 1.49 | 0.665 |

 $[\]ensuremath{^{\dagger}}$ multiple reasons may be listed for one revision procedure

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



| Components Revised | Number of procedures | EcoFit Cup HA | All other Cementless Cups in NJR |
|--|----------------------|---------------|-------------------------------------|
| Femoral only | 0 | 0% | 22% |
| Acetabular only | 0 | 0% | 25% |
| Both femoral and acetabular | 1 | 50% | 43% |
| Neither femoral nor acetabular revision recorded * | 1 | 50% | 10% |

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

^{*} Based on All NJR Cementless Cups, 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 | 0 | 0.09 | 1 |
| Dislocation / Subluxation | 0 | 0.34 | 1 |
| Adverse Soft Tissue Reaction | 0 | 0.03 | 1 |
| Infection | 0 | 0.32 | 1 |
| Aseptic Loosening - Stem | 0 | 0.19 | 1 |
| Aseptic Loosening - Socket | 0 | 0.06 | 1 |
| Periprosthetic Fracture Stem | 1 | 0.32 | 0.276 |
| Periprosthetic Fracture Socket | 0 | 0.04 | 1 |
| Malalignment Stem | 0 | 0.05 | 1 |
| Malalignment Socket | 0 | 0.07 | 1 |
| Wear Of Acetabular Component | 0 | 0.05 | 1 |
| Lysis Stem | 0 | 0.02 | 1 |
| Lysis Socket | 0 | 0.01 | 1 |
| Implant Fracture Stem | 0 | 0.01 | 1 |
| Implant Fracture Socket | 0 | 0.02 | 1 |
| Implant Fracture Head | 0 | 0.00 | 1 |
| Dissociation of Liner | 1 | 0.04 | 0.035 |
| Other / reason not recorded | 0 | 0.07 | 1 |
| Total Revised | 2 | 1.49 | 0.664 |

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

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



| Components Revised | Number of procedures | EcoFit Cup HA | All other Cementless Cups in NJR |
|--|----------------------|---------------|----------------------------------|
| Femoral only | 0 | 0% | 31% |
| Acetabular only | 0 | 0% | 24% |
| Both femoral and acetabular | 1 | 50% | 33% |
| Neither femoral nor acetabular revision recorded * | 1 | 50% | 13% |

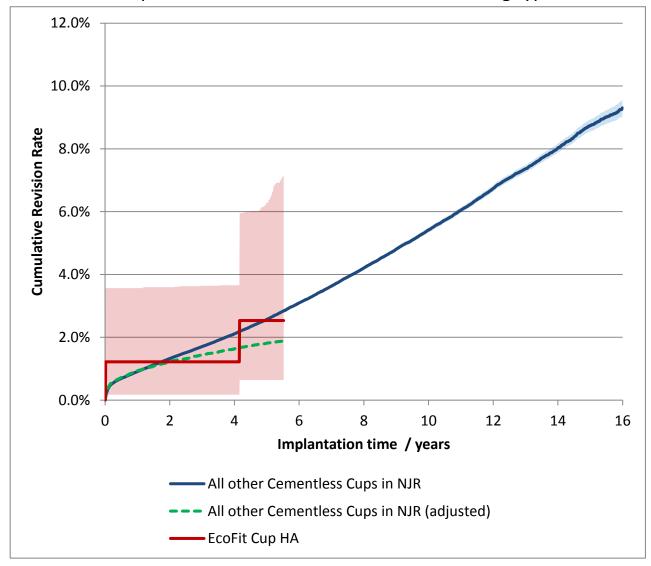
^{*} includes isolated head and/or liner exchange



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

Cumulative Revision Rate

Endpoint: All reasons for revision. All Bearing types

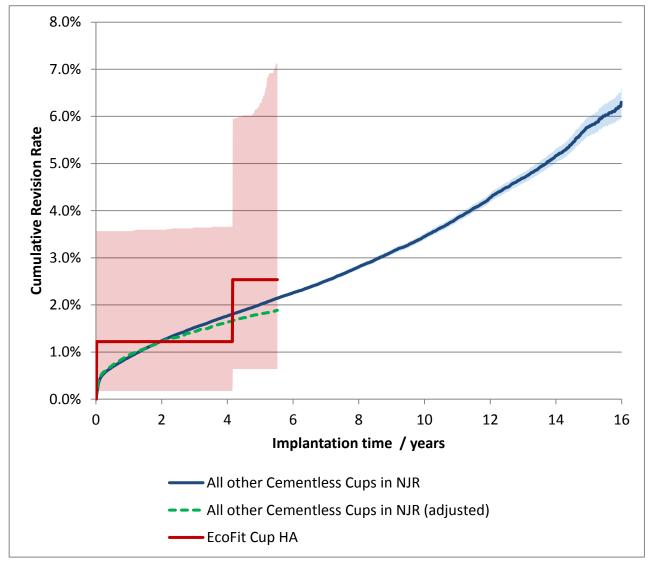


| Adjustment | Hazard Ratio (95% CI) | <i>p</i> -value |
|--|--------------------------|-----------------|
| All bearings. Unadjusted. | 0.89 (0.22 - 3.58) | 0.875 |
| All bearings. Adjusted for age, gender, year cohort and indications. | 1.34 (0.33 - 5.37) | 0.679 |



Cumulative Revision Rate

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

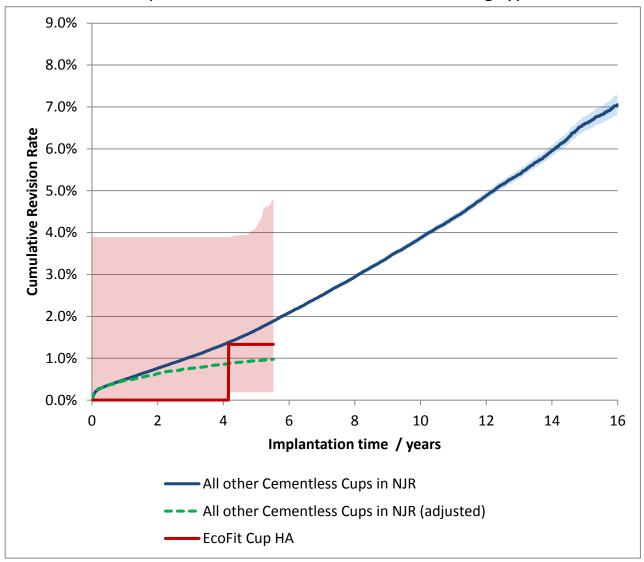


| Adjustment | Hazard Ratio (95% CI) | p-value |
|---|--------------------------|---------|
| Excluding MoM, Unadjusted. | 1.18 (0.30 - 4.73) | 0.813 |
| Excluding MoM. Adjusted for age, gender, year cohort and indications. | 1.34 (0.34 - 5.38) | 0.677 |



Cumulative Revision Rate

Endpoint: Acetabular Revision. All Bearing types

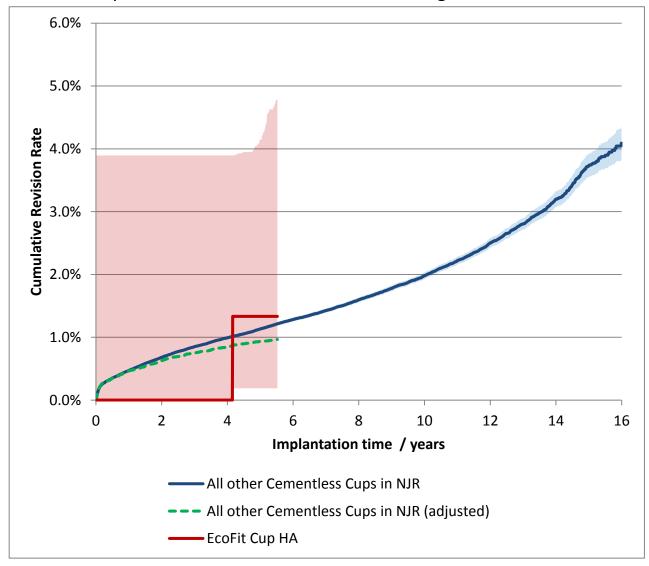


| Adjustment | Hazard Ratio (95% CI) | <i>p</i> -value |
|--|--------------------------|-----------------|
| All bearings. Unadjusted. | 0.68 (0.10 - 4.83) | 0.699 |
| All bearings. Adjusted for age, gender, year cohort and indications. | 1.31 (0.18 - 9.32) | 0.787 |



Cumulative Revision Rate

Endpoint: Acetabular Revision. Excluding Metal-on-Metal



| Adjustment | Hazard Ratio (95% CI) | p-value |
|---|--------------------------|---------|
| Excluding MoM. Unadjusted. | 1.05 (0.15 - 7.45) | 0.962 |
| Excluding MoM. Adjusted for age, gender, year cohort and indications. | 1.32 (0.19 - 9.41) | 0.780 |



Revision and Survivorship

Cumulative Revision Rate

Endpoint: All revisions

| | All Bearing types | | | Excluding Metal on Metal Bearings | | | | |
|------------------|-------------------|--------------------|--|-----------------------------------|---------|--------------------|--|--------------------|
| Period /years | At Risk | EcoFit Cup HA | All other Cementless Cups in NJR | All THR | At Risk | EcoFit Cup HA | All other Cementless Cups in NJR | All THR |
| 0 | 82 | - | - | - | 82 | - | - | - |
| 1 | 81 | 1.2% (0.2% - 3.6%) | 0.9% (0.9% - 0.9%) | 0.8% (0.8% - 0.8%) | 81 | 1.2% (0.2% - 3.6%) | 0.9% (0.9% - 0.9%) | 0.8% (0.8% - 0.8%) |
| 2 | 79 | 1.2% (0.2% - 3.6%) | 1.3% (1.3% - 1.4%) | 1.2% (1.1% - 1.2%) | 79 | 1.2% (0.2% - 3.6%) | 1.2% (1.2% - 1.3%) | 1.1% (1.1% - 1.1%) |
| 3 | 76 | 1.2% (0.2% - 3.6%) | 1.7% (1.7% - 1.7%) | 1.5% (1.5% - 1.5%) | 76 | 1.2% (0.2% - 3.6%) | 1.5% (1.5% - 1.6%) | 1.4% (1.4% - 1.4%) |
| 4 | 75 | 1.2% (0.2% - 3.7%) | 2.1% (2.1% - 2.1%) | 1.8% (1.8% - 1.9%) | 75 | 1.2% (0.2% - 3.7%) | 1.8% (1.7% - 1.8%) | 1.6% (1.6% - 1.6%) |
| 5 | 61 | 2.5% (0.6% - 6.3%) | 2.6% (2.5% - 2.6%) | 2.2% (2.2% - 2.3%) | 61 | 2.5% (0.6% - 6.3%) | 2.0% (2.0% - 2.0%) | 1.9% (1.8% - 1.9%) |
| 6 | | (-) | 3.1% (3.0% - 3.1%) | 2.6% (2.6% - 2.7%) | | (-) | 2.3% (2.2% - 2.3%) | 2.1% (2.1% - 2.1%) |
| 7 | | (-) | 3.6% (3.6% - 3.7%) | 3.1% (3.0% - 3.1%) | | (-) | 2.5% (2.5% - 2.6%) | 2.4% (2.3% - 2.4%) |
| 8 | | (-) | 4.2% (4.1% - 4.3%) | 3.5% (3.5% - 3.6%) | | (-) | 2.8% (2.8% - 2.9%) | 2.7% (2.6% - 2.7%) |
| 9 | | (-) | 4.8% (4.7% - 4.9%) | 4.0% (4.0% - 4.1%) | | (-) | 3.1% (3.1% - 3.2%) | 3.0% (2.9% - 3.0%) |
| 10 | | (-) | 5.4% (5.3% - 5.5%) | 4.6% (4.5% - 4.6%) | | (-) | 3.5% (3.4% - 3.5%) | 3.3% (3.3% - 3.4%) |
| 11 | | (-) | 6.0% (6.0% - 6.1%) | 5.1% (5.1% - 5.2%) | | (-) | 3.8% (3.8% - 3.9%) | 3.7% (3.7% - 3.8%) |
| 12 | | (-) | 6.7% (6.6% - 6.8%) | 5.7% (5.7% - 5.8%) | | (-) | 4.3% (4.2% - 4.4%) | 4.2% (4.1% - 4.3%) |
| 13 | | (-) | 7.4% (7.2% - 7.5%) | 6.3% (6.2% - 6.4%) | | (-) | 4.7% (4.6% - 4.8%) | 4.7% (4.6% - 4.8%) |
| 14 | | (-) | 8.0% (7.9% - 8.2%) | 6.9% (6.8% - 7.0%) | | (-) | 5.2% (5.0% - 5.3%) | 5.1% (5.0% - 5.3%) |
| 15 | | (-) | 8.7% (8.5% - 8.9%) | 7.6% (7.4% - 7.7%) | | (-) | 5.8% (5.6% - 6.0%) | 5.8% (5.6% - 5.9%) |

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: Acetabular Revision

| | All Bearing types | | | Excluding Metal on Metal Bearings | | | | |
|---------------|-------------------|--------------------|------------------------------|-----------------------------------|---------|--------------------|------------------------------|--------------------|
| Period /years | At Risk | EcoFit Cup HA | All other Cementless Cups | All THR | At Risk | EcoFit Cup HA | All other Cementless Cups | All THR |
| 0 | 82 | - | - | - | 82 | • | - | - |
| 1 | 81 | 0.0% (0.0% - 4.1%) | 0.5% (0.5% - 0.5%) | 0.4% (0.4% - 0.5%) | 81 | 0.0% (0.0% - 4.1%) | 0.5% (0.5% - 0.5%) | 0.4% (0.4% - 0.4%) |
| 2 | 79 | 0.0% (0.0% - 4.1%) | 0.8% (0.7% - 0.8%) | 0.7% (0.7% - 0.7%) | 79 | 0.0% (0.0% - 4.1%) | 0.7% (0.7% - 0.7%) | 0.6% (0.6% - 0.7%) |
| 3 | 76 | 0.0% (0.0% - 4.1%) | 1.0% (1.0% - 1.1%) | 0.9% (0.9% - 1.0%) | 76 | 0.0% (0.0% - 4.1%) | 0.9% (0.8% - 0.9%) | 0.8% (0.8% - 0.9%) |
| 4 | 75 | 0.0% (0.0% - 4.1%) | 1.3% (1.3% - 1.4%) | 1.2% (1.2% - 1.2%) | 75 | 0.0% (0.0% - 4.1%) | 1.0% (1.0% - 1.0%) | 1.0% (1.0% - 1.0%) |
| 5 | 61 | 1.3% (0.2% - 4.1%) | 1.7% (1.6% - 1.7%) | 1.5% (1.5% - 1.5%) | 61 | 1.3% (0.2% - 4.1%) | 1.1% (1.1% - 1.2%) | 1.1% (1.1% - 1.2%) |
| 6 | | (-) | 2.1% (2.0% - 2.1%) | 1.8% (1.8% - 1.8%) | | (-) | 1.3% (1.3% - 1.3%) | 1.3% (1.3% - 1.3%) |
| 7 | | (-) | 2.5% (2.5% - 2.5%) | 2.2% (2.1% - 2.2%) | | (-) | 1.4% (1.4% - 1.5%) | 1.5% (1.5% - 1.5%) |
| 8 | | (-) | 2.9% (2.9% - 3.0%) | 2.5% (2.5% - 2.6%) | | (-) | 1.6% (1.6% - 1.6%) | 1.7% (1.7% - 1.7%) |
| 9 | | (-) | 3.4% (3.3% - 3.5%) | 2.9% (2.9% - 2.9%) | | (-) | 1.8% (1.7% - 1.8%) | 1.9% (1.9% - 1.9%) |
| 10 | | (-) | 3.9% (3.8% - 3.9%) | 3.3% (3.3% - 3.4%) | | (-) | 2.0% (1.9% - 2.0%) | 2.2% (2.1% - 2.2%) |
| 11 | | (-) | 4.3% (4.3% - 4.4%) | 3.8% (3.7% - 3.8%) | | (-) | 2.2% (2.2% - 2.3%) | 2.5% (2.4% - 2.5%) |
| 12 | | (-) | 4.9% (4.8% - 5.0%) | 4.3% (4.2% - 4.3%) | | (-) | 2.5% (2.4% - 2.6%) | 2.8% (2.8% - 2.9%) |
| 13 | | (-) | 5.4% (5.3% - 5.5%) | 4.7% (4.7% - 4.8%) | | (-) | 2.8% (2.7% - 2.9%) | 3.2% (3.1% - 3.3%) |
| 14 | | (-) | 6.0% (5.8% - 6.1%) | 5.2% (5.1% - 5.3%) | | (-) | 3.2% (3.1% - 3.3%) | 3.6% (3.5% - 3.7%) |
| 15 | | (-) | 6.6% (6.4% - 6.8%) | 5.8% (5.7% - 6.0%) | | (-) | 3.7% (3.5% - 3.9%) | 4.2% (4.0% - 4.3%) |

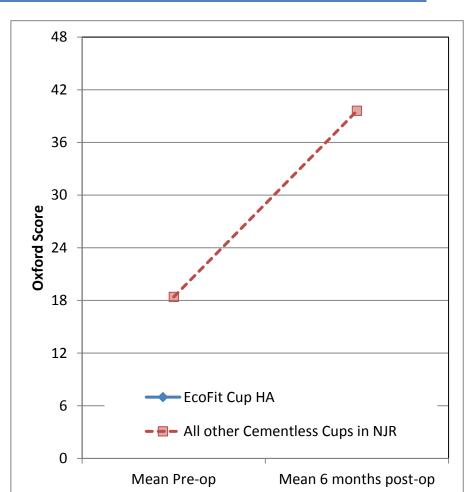
Cumulative revision rate with 95% confidence intervals

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

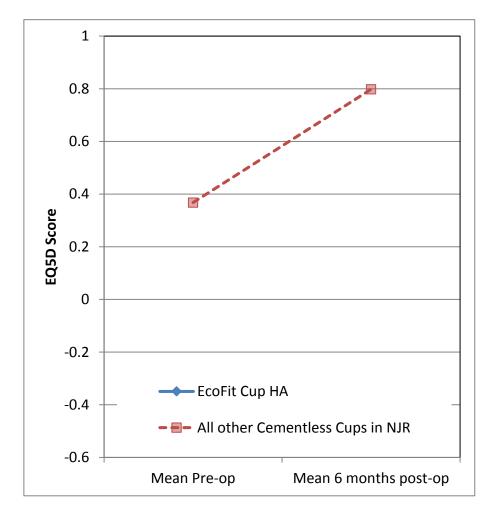


Patient Reported Outcomes

PROMs Analysis



Comprising PROMs data up to and including: 29/03/2018





Patient Reported Outcomes

PROMs Analysis

Comprising PROMs data up to and including: 29/03/2018

| Oxford Hip Score (0 - 48) | EcoFit Cup HA | All other Cementless Cups in NJR | All THR in NJR |
|--------------------------------|---------------|-------------------------------------|--------------------|
| Paired Records | 0 | 185,466 | 291,075 |
| PreOp score | | 18.4 (18.4 - 18.4) | 18.0 (18.0 - 18.0) |
| 6 month score | | 40.0 (39.9 - 40.0) | 39.3 (39.3 - 39.4) |
| 6 month score (adjusted) | | 39.6 (39.6 - 39.7) | 39.3 (39.3 - 39.4) |
| Health gain | | 21.6 (21.5 - 21.6) | 21.3 (21.3 - 21.4) |
| Health gain (adjusted) | | 21.6 (21.6 - 21.7) | 21.3 (21.3 - 21.4) |
| p value (adjusted health gain) | | | |
| Score Improved | 0.0% | 97.3% | 97.2% |

| EQ-5D Index (-0.59 - 1.00) | EcoFit Cup HA | All other Cementless Cups in NJR | All THR in NJR |
|--------------------------------|---------------|-------------------------------------|-----------------------|
| Paired Records | 0 | 171,275 | 267,683 |
| PreOp score | | 0.368 (0.367 - 0.370) | 0.355 (0.354 - 0.356) |
| 6 month score | | 0.804 (0.803 - 0.805) | 0.792 (0.791 - 0.792) |
| 6 month score (adjusted) | | 0.798 (0.797 - 0.799) | 0.792 (0.791 - 0.792) |
| Health gain | | 0.436 (0.434 - 0.437) | 0.437 (0.435 - 0.438) |
| Health gain (adjusted) | | 0.443 (0.442 - 0.444) | 0.437 (0.436 - 0.437) |
| p value (adjusted health gain) | | | |
| Score Improved | 0.0% | 89.8% | 89.4% |

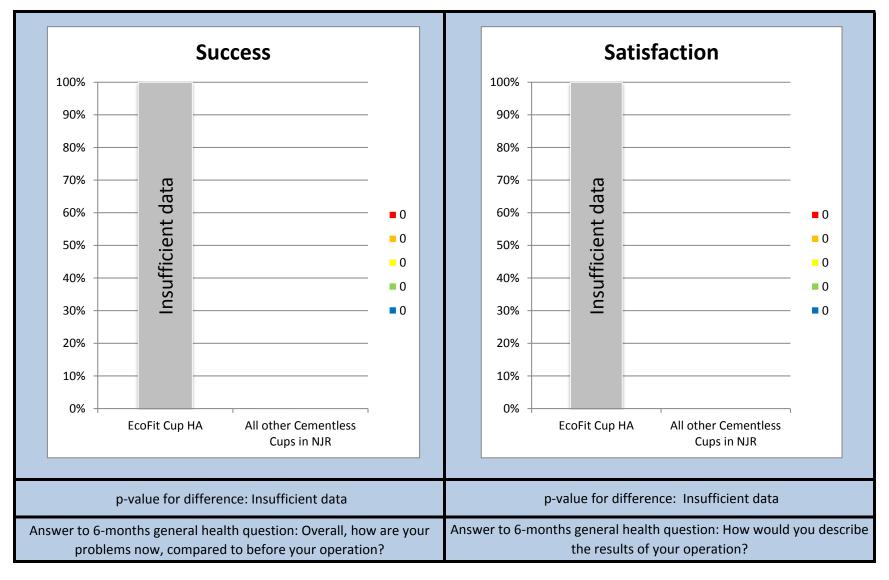
| EQ-VAS (0 - 100) | EcoFit Cup HA | All other Cementless Cups in NJR | All THR in NJR |
|--------------------------------|---------------|-------------------------------------|--------------------|
| Paired Records | 0 | 164,796 | 256,675 |
| PreOp score | | 65.4 (65.3 - 65.5) | 65.0 (64.9 - 65.1) |
| 6 month score | | 77.7 (77.6 - 77.8) | 76.8 (76.7 - 76.9) |
| 6 month score (adjusted) | | 77.1 (77.0 - 77.2) | 76.8 (76.7 - 76.8) |
| Health gain | | 12.3 (12.2 - 12.4) | 11.8 (11.7 - 11.9) |
| Health gain (adjusted) | | 12.1 (12.0 - 12.2) | 11.8 (11.7 - 11.8) |
| p value (adjusted health gain) | | | |
| Score Improved | 0.0% | 66.8% | 65.6% |

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



Responses are not case mix adjusted

Patient Reported Outcomes





Patient Reported Outcomes

Success

| Response | EcoFit Cup HA | All other Cementless Cups in NJR |
|----------|---------------|-------------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

Answer to 6-months general health question:

Satisfaction

| Response | EcoFit Cup HA | All other Cementless Cups in NJR |
|----------|---------------|-------------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

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:

EcoFit Cup HA

Disclaimer

Disclaimer

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Appendix A: Component List

| 02200346 | EcoFit® cup HA cementless size Ø 46mm incl. central hole cover | 1 |
|----------|--|----|
| 02200348 | EcoFit® cup HA cementless size Ø 48mm incl. central hole cover | 7 |
| 02200350 | EcoFit® cup HA cementless size Ø 50mm incl. central hole cover | 17 |
| 02200352 | EcoFit® cup HA cementless size Ø 52mm incl. central hole cover | 16 |
| 02200354 | EcoFit® cup HA cementless size Ø 54mm incl. central hole cover | 14 |
| 02200356 | EcoFit® cup HA cementless size Ø 56mm incl. central hole cover | 10 |
| 02200358 | EcoFit® cup HA cementless size Ø 58mm incl. central hole cover | 11 |
| 02200360 | EcoFit® cup HA cementless size Ø 60mm incl. central hole cover | 6 |



Appendix A: Component List

| 02203239 | BIOLOX® delta-cup insert size Ø 32/39mm | 4 |
|----------|---|----|
| 02203244 | BIOLOX® delta cup insert size Ø 32/44mm | 10 |
| 02203248 | BIOLOX® delta cup insert size Ø 32/48mm | 1 |
| 02203644 | BIOLOX® delta cup insert size Ø 36/44mm | 4 |
| 02802044 | PE-cup insert 0° size Ø 28/44mm | 2 |
| 02802048 | PE-cup insert 0° size Ø 28/48mm | 3 |
| 02802139 | PE-cup insert 10° size Ø 28/39mm | 4 |
| 02802144 | PE-cup insert 10° size Ø 28/44mm | 29 |
| 02802148 | PE-cup insert 10° size Ø 28/48mm | 15 |
| 02802152 | PE-cup insert 10° size Ø 28/52mm | 5 |
| 02803144 | PE-cup insert 10° size Ø 32/44mm | 1 |
| 02803148 | PE-cup insert 10° size Ø 32/48mm | 1 |
| 02803152 | PE-cup insert 10° size Ø 32/52mm | 1 |
| 02803444 | PE-cup insert 0° size Ø 32/44mm | 1 |

