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Hip stems

Müller straight stem

Period	12/2012-03/2020
Number of primary treatments in follow-up	2696
Number of revisions	87
Reason for revisions	Infection: 18 Recurrent luxation: 15 Aseptic loosening: 4 Wear: 4 Other: 4 N/a: 42
Replaced components	Hip stem: 3 (33 not revised, 51 n/a) Femoral head: 39 (48 n/a) Acetabulum component: 13 (23 not revised, 51 n/a) Acetabulum inlay: 21 (16 not revised, 50 n/a)
Probability of default after 5 years	3.7 %
Probability of default after 5 years Comparison results German ERPD	1.6 % - 6.1 % (Ø 3.4%)
Notes	-

Expersus hip stem

Period	08/2017-03/2020
Number of primary treatments in follow-up	102
Number of revisions	-
Reason for revisions	-
Replaced components	-
Probability of default after 2 years	0 %
Probability of default after 2 years Comparison results German ERPD	1.2% - 5 % (Ø3.1% cementless, Ø2,6% cemented)
Notes	-

Femoral head

Femoral head metal (Implant steel, CoCrMo)

Period	12/2012-03/2020
Number of primary treatments in follow-up	4159
Number of revisions	173
Reason for revisions	Infection: 37 Recurrent luxation: 19 Fracture: 20 Dispositioning / Misalignment: 1 Aseptic loosening: 8 Others: 1 N/a: 85
Replaced components	Femoral stem: 31 (36 not revised, 106 n/a) Femoral head: 67 (2 not revised, 104 n/a) Acetabulum component: 26 (38 not revised, 109 n/a) Acetabulum inlay: 39 (27 not revised, 107 n/a)
Probability of default after 7 years	5.6 % (after 5 years: 4.9 %)
Probability of default after 5 years	3.3% - 6.3 % (Ø3.1% cementless, Ø2.6% cemented)
Comparison results German ERPD	
Notes	-

Biolox®delta Femoral head

Period	01/2016-03/2020
Number of primary treatments in follow-up	128
Number of revisions	1
Reason for revisions	Aseptic loosening: 1
Replaced components	Hip stem: 0 Femoral head: 1 Acetabulum component: 1 Acetabulum inlay: 1
Probability of default after 4 years	1 %
Probability of default after 4 years Comparison results German ERPD	1,6% - 3,6%
Notes	-

Bipolarhead

Period	08/2015-03/2020
Number of primary treatments in follow-up	543
Number of revisions	25
Reason for revisions	Infection: 5 Recurrent luxation: 2 Fracture: 3 Aseptic loosening: 1 Others: 1 N/a: 13
Replaced components	Femoral stem: 6 (4 not revised, 15 n/a) Femoral head: 11 (14 n/a) Acetabulum component: 3 (7 not revised, 15 n/a) Acetabulum inlay: 3 (7 not revised, 15 n/a)
Probability of default after 4 years	5.3 %
Probability of default after 4 years Comparison results German ERPD	4.6 – 6.7% (Ø 5.0 %)
Notes	-

Cement Restrictors

Cement Restrictor

Period	04/2019-07/2019
Number of primary treatments in follow-up	4
Number of revisions	0
Reason for revisions	-
Replaced components	-
Probability of default after 5 years	-
Probability of default after 5 years Comparison results German ERPD	-
Notes	No evaluation possible yet due to the short time period, no revision so far.

Cement restrictor Size .1

Period	02/2015-03/2020
Number of primary treatments in follow-up	631
Number of revisions	17
Reason for revisions	Infection: 4 Fracture: 1 Aseptic loosening: 2 Others: 2 n/a: 8
Replaced components	n/a
Probability of default after 5 years	2.9 %
Probability of default after 4 years Comparison results German ERPD	3.4 -7.6%
Notes	-

Cement restrictor Size .2

Period	09/2015-02/2020
Number of primary treatments in follow-up	111
Number of revisions	1
Reason for revisions	Recurrent luxation: 1
Replaced components	n/a
Probability of default after 4 years	0.9 %
Probability of default after 4 years Comparison results German ERPD	3.2 -7.4%
Notes	-

Hip Cup

Müller II Cup

Period	11/2013-03/2020
Number of primary treatments in follow-up	2804
Number of revisions	108
Reason for revisions	Infection: 28 Recurrent luxation: 9 Fracture: 7 Aseptic loosening: 7 Wear: 1 Others: 5 N/a: 51
Replaced components	Femoral stem: 14 (23 not revised, 71 n/a) Femoral head: 36 (3 not revised, 69 n/a) Acetabulum component: 18 (20 not revised, 70 n/a) Acetabulum inlay: 20 (19 not revised, 69 n/a)
Probability of default after 6 years	5.3 % (after 5 years: 4.4 %)
Probability of default after 5 years	3.4 – 6.4%
Comparison results German ERPD	
Notes	-

Primaro Cup

Period	05/2015-03/2020
Number of primary treatments in follow-up	165
Number of revisions	4
Reason for revisions	Infection: 1 Fracture: 1 Aseptic loosening: 1 N/a: 1
Replaced components	Femoral stem: 1 (1 not revised, 2 n/a) Femoral head: 2 (2 not revised, 2 n/a) Acetabulum component: 1 (3 n/a) Acetabulum inlay: 1 (3 n/a)
Probability of default after 4 years	3.4 %
Probability of default after 4 years	3.0-3.6 %
Comparison results German ERPD	
Notes	-

Inlays

Primaro Inlay XL-PE STD

Period	09/2015-02/2020
Number of primary treatments in follow-up	98
Number of revisions	2
Reason for revisions	Fracture: 1 Aseptic loosening: 1
Replaced components	Femoral stem: 1 (1 not revised) Femoral head: 2 Acetabulum component: 1 (1 n/a) Acetabulum inlay: 1 (1 n/a)
Probability of default after 4 years	2.2 %
Probability of default after 4 years Comparison results German ERPD	3.0-6.0 %
Notes	-

Primaro Inlay XL-PE DYS

Period	08/2015-03/2020
Number of primary treatments in follow-up	29
Number of revisions	1
Reason for revisions	Fracture: 1 Aseptic loosening: 1
Replaced components	Femoral stem: 0 (1 n/a) Femoral head: 0 (1 n/a) Acetabulum component: 0 (1 n/a) Acetabulum inlay: 0 (1 n/a)
Probability of default after 4 years	25 %
Probability of default after 4 years Comparison results German ERPD	3.0-6.0 %
Notes	High probability of failure results from the low number of primary treatments tracked to date. One revision recorded so far.

Primaro Inlay XL-PE DYS

Period	08/2015-03/2020
Number of primary treatments in follow-up	29
Number of revisions	1
Reason for revisions	Fracture: 1 Aseptic loosening: 1
Replaced components	Femoral stem: 0 (1 n/a) Femoral head: 0 (1 n/a) Acetabulum component: 0 (1 n/a) Acetabulum inlay: 0 (1 n/a)
Probability of default after 4 years	25 %
Probability of default after 4 years Comparison results German ERPD	3.0-6.0 %
Notes	High probability of failure results from the low number of primary treatments tracked to date. One revision recorded so far.

BioloX®delta Inlay

Period	05/2015-03/2019
Number of primary treatments in follow-up	37
Number of revisions	1
Reason for revisions	n/a: 1
Replaced components	Femoral stem: 0 (1 n/a) Femoral head: 0 (1 n/a) Acetabulum component: 0 (1 n/a) Acetabulum inlay: 0 (1 n/a)
Probability of default after 4 years	2.7 %
Probability of default after 4 years Comparison results German ERPD	3.0-3.6 %
Notes	-